

SOIL VAPOR INTRUSION INVESTIGATION SUMMARY REPORT

AT

**FORMER IMPERIAL CLEANERS SITE
218 LAKEVILLE ROAD
LAKE SUCCESS, NEW YORK 11042
NYSDEC BCP SITE #C130225**

MARCH 2020

PREPARED FOR:

**MR. JOSEPH JONES
PROJECT MANAGER
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WALDEN ENVIRONMENTAL ENGINEERING, PLLC
Industry Leader in Environmental Engineering Consulting

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Sent via email to joseph.jones@dec.ny.gov

March 17, 2020
IMPL0115.6

Mr. Joseph Jones
New York State Department of Environmental Conservation
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7015

Re: Soil Vapor Intrusion Investigation Report
Former Imperial Cleaners Site (BCP #C130225)
218 Lakeville Road, Lake Success, NY

Dear Mr. Jones:

Walden Environmental Engineering, PLLC (Walden) has reviewed the NYSDEC and NYSDOH comments on the *Soil Vapor Intrusion Investigation Summary Report* (SVI Investigation Summary Report, July 2019) for the above referenced site, as presented in a letter from NYSDEC dated March 4, 2020. The SVI Investigation Summary Report, which summarizes the results of the April 2019 SVI investigation completed in accordance with the NYSDEC approved *Remedial Work Plan* (Walden, February 2019), has been revised in accordance with the State's comments. Walden is submitting the revised SVI Investigation Summary Report (attached) on behalf of the property owner and BCP Volunteer, 218 Lakeville Acquisition LLC.

Walden's revisions in response to the State's comments are detailed below, in the same order presented in NYSDEC's March 4th letter.

- **Comment on Section 1.1:** *"218 Lakeville Associates L.P. then installed a soil vapor extraction (SVE) system to remove VOC vapors remaining in the soil in order to address the source areas and improve soil and groundwater quality." Please include a statement indicating that an additional objective of the SVE system was to actively mitigate soil vapor intrusion impacts affecting the on and off-site structures."*

Response: Please note that mitigation of potential soil vapor intrusion impacts was not a factor when the previous Site owner designed the on-site SVE system, because



to our knowledge, at that time (circa 2000) regulatory agencies were in the early phases of understanding vapor intrusion and had not begun addressing the SVI pathway into on and off-site structures at sites with VOC contamination such as this one. Therefore, it would not be accurate to state that SVI mitigation was an objective of the former owner's SVE system. The following sentence has been added to Section 1.1, paragraph 3 (second to last sentence) based on the State's comment: "The SVE system also served to mitigate the potential for SVI impacts affecting on- and off-site structures."

- **Comment on Section 3.1.1:** *"Most of the VOCs detected in the sub-slab and indoor air samples are not considered by the NYSDOH decision matrices and do not have established NYSDOH AGVs, therefore there is no basis for evaluating them further in this report." This statement is misleading and must be removed . . .*

Response: The first sentence of Section 3.1.1 has been revised as follows: "While most of the VOCs detected in the sub-slab and indoor air samples are not considered by the SVI Guidance decision matrices and do not have established NYSDOH AGVs, the SVI results for all VOCs are evaluated in this report based on factors including the building-specific product inventories and background databases."

- **General Comment:** *Throughout the report references are made to the NYSDOH SVI Guidance document. Please note that the guidance for evaluating Soil Vapor Intrusion in the State of New York, October 2006, with updates is the correct initial reference and it should be subsequently referred to as SVI Guidance as opposed to NYSDOH SVI Guidance. Please revise.*

Response: The attached SVI Investigation Summary Report has been revised in accordance with this comment.

- **Figure 2 Comment:** *The SVI Results Summary Figure must be replaced with the revised version submitted on February 14, 2020 incorporating SVI analytical results.*

Response: Figure 2 has been replaced in accordance with this comment. In addition, the following sentence has been added to Section 3.0, paragraph 4: "The PCE, TCE and methylene chloride concentrations detected in the sub-slab vapor and indoor air samples at each location are graphically presented on Figure 2."

Mr. Joseph Jones, NYSDEC
SVI Investigation Summary Report Revisions
March 17, 2020

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NYSDEC's March 4th letter also indicates that the owners of seven (7) off-site properties must be contacted to request permission to perform SVI sampling in the buildings on these properties. Walden sent letters via certified mail on March 5th to each of the property owners requesting such permission. To date, we have not received any responses to these letters. Walden will promptly advise NYSDEC and NYSDOH of any responses which are received.

Please call me if you have any questions.

Very truly yours,
Walden Environmental Engineering, PLLC

A handwritten signature in black ink that reads "Nora M. Brew". The signature is written in a cursive, flowing style.

Nora M. Brew, P.E.
Senior Project Manager

cc: R. Corcoran, NYSDEC
A. Tamuno, Esq., NYSDEC
C. Bethoney, NYSDOH
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N. Weisfeld, 218 Lakeville Aquisition LLC

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Professional Engineer Certification

I certify that I am currently a professional engineer licensed to practice in New York State in accordance with New York State Education Law, Article 145, Section 7200 et seq. I have completed accredited university courses and degrees in engineering and have sufficient training and experience in remediation, groundwater hydrology, and related fields that enable me to make sound professional judgments with regards to engineering design.

I further certify that this submittal, *Soil Vapor Intrusion Investigation Summary Report*, dated March 17, 2020, was prepared under my direction.

Nora M Brew



3/17/2020

Nora M. Brew, P.E.
Walden Environmental Engineering, PLLC

Date

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1 INTRODUCTION

Walden Environmental Engineering, PLLC (Walden) has prepared this report to summarize the results of the April 2019 soil vapor intrusion (SVI) investigation conducted at 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 Brownfield Cleanup Program (BCP, Site #C130225), subject to New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Agreement (BCA) Index No. C130225-01-18. This agreement was fully executed by 218 Lakeville Acquisition LLC (the current Site owner and Volunteer) and the NYSDEC on February 12, 2018. Previously, the Site was managed under the NYSDEC Voluntary Cleanup Program (VCP) as site #V-00244-1.

The SVI investigation was conducted to address the potential for vapor intrusion from contaminated soil vapor and potential impacts to indoor air quality at the Site and neighboring off-site properties. The SVI investigation was completed in accordance with the NYSDEC-approved *Remedial Work Plan*, (RWP) dated February 2019), 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* (dated October 18, 2006), *Guidance for Evaluating Soil Vapor Intrusion in the State of New York* (dated October 2006, with updates, referred to herein as “SVI Guidance”), and NYSDEC *DER-10: Technical Guidance for Site Investigation and Remediation*. The RWP was approved by the NYSDEC by letter dated February 12, 2019. The field work for the investigation included the collection of sub-slab vapor, indoor air and outdoor (ambient) 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 two active tenants (Tobacco Plaza, Ltd. and CCQ Construction Inc.) and two 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 tenant space occupied by a dry cleaner (former Imperial Cleaners) and from a leaching pool and dry well on the property that were associated with the former dry-cleaner operations. A site investigation followed to identify source areas and determine the extent of contaminated soil and groundwater at the Site. The site investigation and remediation work described below was conducted by 218 Lakeville Associates L.P., the owner of the Subject Property at that time, as required by NYSDEC under the VCP.

Contaminated sediments were removed from the source areas (dry well, interior floor drains, and leaching pool associated with the former Imperial Cleaners operations) in 1996 and 2000 to the extent possible without undermining the structures. Post-excavation endpoint soil sampling following the source area removal actions indicated that volatile organic compounds (VOCs) remained in the subsurface at concentrations above the NYSDEC TAGM 4046 Recommended Cleanup Objectives. However, no additional materials were removed because it was determined that further excavation would threaten the integrity of the structures. 218 Lakeville Associates L.P. then installed a soil vapor extraction (SVE) system to remove VOC vapors remaining in the soil in order to address the source areas and improve soil and groundwater quality. The SVE system, which consisted of eight soil vapor extraction wells, began operating in 2001. The SVE system also served to mitigate the potential for SVI impacts affecting on- and off-site structures. 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.

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 the SVE system had successfully reduced soil contaminant concentrations to below the NYSDEC TAGM 4046 Recommended Cleanup Objectives. Permanent shutdown of the SVE system was recommended by 218 Lakeville Associates L.P. based on the 2007-2008 closure sampling results. 218 Lakeville Associates L.P., the previous Site owner subsequently shut down the SVE system circa 2008 without approval from NYSDEC and NYSDOH. These activities occurred approximately seven (7) years before the current Site owner/Volunteer purchased the site or had any involvement with the Site.

After the current Site owner/Volunteer, 218 Lakeville Aquisition LLC, purchased the Subject Property from 218 Lakeville Associates L.P. in July 2015, an 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). The field work was completed in February 2016 (during the 2015-2016 heating season) and consisted of sub-slab vapor, indoor air, and outdoor air sampling and analysis. The February 2016 SVI investigation results and conclusions are presented in the *Soil Vapor Intrusion Investigation Summary Report* (Walden, May 4, 2017), which indicated that subsurface VOC concentrations at the Site and surrounding area had rebounded since the SVE system was shut down.

1.2 April 2019 SVI Sampling Objectives

After the BCA was fully executed, representatives from the Site owner (218 Lakeville Acquisition LLC), the NYSDEC and NYSDOH met on March 13, 2018 to discuss a remedial action plan for the Site. At that time, the State expressed concern that VOC vapors may have migrated beyond the four (4) off-site properties investigated during the February 2016 SVI sampling event. Therefore, the State requested SVI sampling at an additional seven (7) off-site properties to evaluate the potential for indoor air quality impacts due to VOC vapors from the Site. Sampling at these off-site properties would be contingent upon access/permission procured by the Site owner (with assistance from the NYSDOH as needed), and the State would evaluate all additional SVI data and consequently make recommendations/determinations about any additional actions based on the data.

Representatives from the NYSDEC, 218 Lakeville Acquisition LLC and Walden met in November 2018 to discuss the additional SVI sampling requested by the State and remedial options for the Site. Subsequently, the February 2019 RWP was developed by Walden (and approved by the NYSDEC) which proposed, in part, the completion of additional on-site and off-site SVI sampling as per the State's request in order to evaluate potential indoor air quality impacts related to soil vapor intrusion. This additional SVI sampling (sub-slab soil vapor, indoor air and outdoor air) was performed in April 2019 during the 2018-2019 heating season.

2 SVI INVESTIGATION FIELD WORK

The April 2019 SVI investigation event consisted of sampling at the Site and the two (2) off-site properties (220 Lakeville Road and 5 University Place) whose owners granted permission for access. None of the other off-site properties at which SVI sampling was to be performed granted Walden permission for access despite repeated attempts to obtain this permission. Sub-slab soil vapor sampling points initially installed at the Site and at the adjoining 220 Lakeville Road property during the February 2016 SVI sampling event were utilized again during the April 2019 sampling event. Additionally, one new sub-slab sampling point was installed on April 4, 2019 at the residence located at 5 University Place. Sub-slab vapor, indoor air and outdoor (ambient) air samples were collected over a 24-hour sampling period from April 4-5, 2019. 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 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 SVI Guidance was completed prior to sampling. Copies of the completed questionnaire for the on-site building and off-site properties at 5 University Place and 220 Lakeville Road are provided in Appendix A 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 *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 automobiles 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 depicted in the NYSDEC-approved RWP. The sub-slab and indoor air sampling locations at 5 University Place were selected on April 4, 2019 following an inspection of the basement space, and were cleared based on a private utility mark-out, physical access and owner approval. As discussed above, sample locations in the on-site building and the adjoining property at 220 Lakeville Road were determined based on the locations of pre-existing sub-slab vapor probes which were installed in February 2016 in association with the previous SVI investigation and were utilized again for the April 2019 investigation. All sample locations are illustrated on Figure 2.

New and existing sub-slab vapor sampling points were placed in locations with minimal potential for ambient air infiltration from floor penetrations such as cracks, drains, utility perforations, sumps, etc. All observed penetrations were sealed to the extent practicable 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 (4) 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 basement space (SS-2 and IA-2)
- Two locations beneath the former delicatessen space (this basement area is divided into two sections; one sampling location per section)
 - Southern Section, vacant (SS-3 and IA-3)
 - Northern Section, utilized as storage for CCQ Construction (SS-4 and IA-4)

Additionally, a duplicate sub-slab vapor sample (SS-DUP) was collected from the SS-1 sampling location and a duplicate indoor air sample (IA-DUP) was collected from the IA-4 sampling location.

Two outdoor air samples (AA-1 and AA-2) and one duplicate (AA-DUP) 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 duplicate AA-DUP) and downwind (AA-2) based upon the prevailing wind direction observed at the time of sampling (west-northwest).

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 as per the RWP in the lowest level (i.e. basement) of two (2) off-site properties as follows:

- 220 Lakeville Road (SS-7 and IA-7)
- 5 University Place (SS-10 and IA-10)

2.3 Sub-Slab Sample Probe Installation

A permanent recessed sub-slab vapor sampling probe (denoted as SS-10) was installed in the basement of 5 University Place in accordance with SVI Guidance and as described in the RWP. A small (approximately one inch diameter) hole was drilled through the concrete floor slab and into sub-slab material approximately three (3) inches below the bottom of the floor slab. Concrete and soil cuttings were removed from the hole and a stainless steel sampling screen was installed to a depth of three (3) inches into the sub-slab material. The top of the probe was finished with a recessed brass plug and the implant was sealed to the floor with hydraulic cement. For sampling purposes, a threaded fitting connected to polyethylene tubing was inserted into the sampling port for connection to a Summa[®] canister.

2.3.1 Tracer Gas Monitoring

Walden performed tracer gas monitoring as per the SVI Guidance to verify the integrity of all sub-slab vapor probe seals prior to sample collection. A shroud was placed around each sampling probe and sealed around the edges to create an adequate surface seal to prevent outdoor air infiltration. Helium tracer gas was introduced into the shroud 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 the implants for helium tracer gas to confirm the integrity of the probe seals before the 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 RWP. 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, fittings were used to connect the Summa[®] canister tubing to the sampling port tubing. The ground surface was sealed in advance to prevent ambient air infiltration during purging and collection of sub-slab vapor samples. Additionally, 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 at a height of approximately four to five (4-5) feet above the ground surface to represent typical breathing zones, as per the SVI guidance. Similarly, the outdoor air samples were collected at a height of approximately three (3) feet above the ground surface where possible.

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

After sampling was completed, the Summa[®] canisters were labeled with the site name, 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 appropriate Chain-of-Custody protocols.

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 sub-slab soil vapor and air samples were analyzed for VOCs in accordance with U.S. Environmental Protection Agency (EPA) Method TO-15 with the analytical detection limits set forth in the SVI Guidance. 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 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 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), methylene chloride, 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 SVI Guidance decision matrices, the 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 April 2019 SVI investigation are summarized in Table 1. The PCE, TCE and methylene chloride concentrations detected in the sub-slab vapor and indoor air samples at each location are graphically presented on Figure 2. Table 2 summarizes the SVI data decision matrix comparisons and notes the actions recommended based on the decision matrices contained in the SVI Guidance document. A copy of the laboratory analytical report is attached as Appendix B. A Data Usability Summary Report (DUSR), which was completed in accordance with DER-10, is provided in Appendix C.

3.1 Summary of Results

3.1.1 General Discussion of Results

While most of the VOCs detected in the sub-slab and indoor air samples are not considered by the SVI Guidance decision matrices and do not have established NYSDOH AGVs, the SVI results for all VOCs are evaluated in this report based on factors including the building-specific product inventories and background databases. 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 duplicate AA-DUP) and downwind (AA-2) air samples.

3.1.2 SVI Guidance Decision Matrix Evaluation

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

Carbon Tetrachloride

- No AGV is established for this compound
- Carbon tetrachloride was not detected at concentrations above laboratory method detection limits (MDLs) in any of the sub-slab vapor samples, and was detected only at low concentrations (less than 0.60 micrograms per cubic meter, or $\mu\text{g}/\text{m}^3$) in each of the indoor air samples. This compound was also detected at similar concentrations (maximum 0.52 $\mu\text{g}/\text{m}^3$) 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 at 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, SVI Guidance Decision Matrix A recommends “No further action”.*

1,1,1-Trichloroethane (1,1,1-TCA)

- No AGV is established for this compound
- None of the 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, SVI Guidance Decision Matrix B recommends “No further action”.*

Trichloroethene (TCE)

- Low concentrations of TCE were detected in several indoor air samples; however, none of the reported concentrations exceeded the AGV of 2 µg/m³.
- TCE was not detected in the outdoor ambient air samples.
- 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.
- *Based on the TCE concentrations reported for sub-slab vapor and indoor air samples, SVI Guidance Decision Matrix A recommends the following:*
 - *“No further action” at 220 Lakeville Road*
 - *“Mitigate” at 5 University Place and all 218 Lakeville Road spaces*

Tetrachloroethene (PCE)

- None of the indoor air samples contained PCE at concentrations above the AGV of 30 µg/m³.
- PCE was not detected in the outdoor ambient air samples at concentrations above laboratory method detection limits.
- 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.
- *Based on the PCE concentrations reported for sub-slab vapor and indoor air samples, SVI Guidance Decision Matrix B recommends the following:*
 - *“No further action” at 220 Lakeville Road*
 - *“Mitigate” at 5 University Place and all sampling locations at 218 Lakeville Road*

1,1-Dichloroethene (1,1 DCE)

- No AGV is established for this compound
- *1,1-DCE was not detected in any of the sub-slab vapor, indoor air or outdoor air samples at concentrations above laboratory method detection limits. Therefore, SVI Guidance Decision Matrix A recommends “No further action” with respect to this compound.*

Cis-1,2-Dichloroethene (cis-1,2 –DCE)

- No AGV is established for this compound
- A low concentration (0.22 $\mu\text{g}/\text{m}^3$) of cis-1,2-DCE was detected in indoor air sample IA-4, collected from the basement space beneath CCQ Construction Inc. at 218 Lakeville Road.
- Cis-1,2-DCE was not detected at concentrations above laboratory method detection limits in any of the remaining indoor air samples or outdoor air samples.
- *Based on the cis-1,2-DCE concentrations reported for sub-slab vapor and indoor air samples collected at all locations, SVI Guidance Decision Matrix A recommends the following:*
 - “No further action” at 5 University Place and 220 Lakeville Road
 - “Mitigate” at all sampling locations at 218 Lakeville Road

Vinyl Chloride

- No AGV is established for this compound
- Vinyl chloride was not detected in any of the indoor air or outdoor air samples at concentrations above laboratory method detection limits.
- A low concentration (1.25 $\mu\text{g}/\text{m}^3$) of vinyl chloride was detected in sub-slab sample SS-4, collected from the basement space beneath CCQ Construction Inc. at 218 Lakeville Road. Vinyl chloride was not detected at concentrations above laboratory method detection limits at any of the other sub-slab soil vapor sample locations.
- *SVI Guidance Decision Matrix C recommends “No further action” with respect to this compound for all sample locations.*

Methylene Chloride

- An AGV of 60 $\mu\text{g}/\text{m}^3$ is established for this compound.
- Methylene chloride was not detected in any of the sub-slab vapor or outdoor air samples at concentrations above laboratory method detection limits.
- Methylene chloride was not detected in any of the indoor air samples with the exception of IA-10, collected from within the basement at 5 University Place. Methylene chloride was detected at a concentration of 120 $\mu\text{g}/\text{m}^3$ in this sample, which exceeds the AGV of 60 $\mu\text{g}/\text{m}^3$. This methylene chloride concentration is attributable to an unknown source within 5 University Place during the sample collection period, as this compound was not detected in the sub-slab vapor or outdoor air samples at this location.
- *Based on the methylene chloride concentrations reported for sub-slab and indoor air samples collected at all locations, SVI Guidance Matrix B recommends the following:*
 - “Identify sources and resample or mitigate” at 5 University Place

- *“No further action” at 218 and 220 Lakeville Road*

3.2 Data Usability Summary Report (DUSR)

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

4 CONCLUSIONS & RECOMMENDATIONS

4.1 Conclusions

The SVI sampling results indicate that the indoor air within the basement of 218 Lakeville Road and the basements of the off-site properties located at 220 Lakeville Road and 5 University Place meets the AGVs established by the NYSDOH as described in Section 3, with the exception of methylene chloride at 5 University Place. The methylene chloride concentration detected in indoor air sample IA-10 at 5 University Place exceeded the AGV established by the NYSDOH ($120 \mu\text{g}/\text{m}^3$ vs $60 \mu\text{g}/\text{m}^3$ AGV). This methylene chloride concentration within 5 University Place is attributable to an unknown source unrelated to the Site, as this compound was not detected in the sub-slab vapor or outdoor air samples at this location.

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. It is likely that the low permeability clay layer and perched water table located approximately 30 feet below grade in this area, create subsurface conditions which have trapped VOC vapors in the tight pore spaces and possibly on top of the perched water.

A pre-design soil and groundwater investigation was conducted at the Site in May 2019 in accordance with the approved RWP. The soil and groundwater sampling results will provide further data to characterize remaining VOC sources at the Site and support source removal actions as appropriate. The pre-design investigation results and source removal recommendations will be summarized in a separate report and submitted to NYSDEC and NYSDOH.

Based on a comparison of the target compound concentrations reported for the sub-slab and indoor air samples with the concentration ranges compared in the SVI Guidance decision matrices, mitigation is recommended for 218 Lakeville Road and 5 University Place to address potential soil vapor intrusion impacts and prevent exposure to VOCs in indoor air. The decision matrix comparisons indicate that no action is recommended at 220 Lakeville Road.

4.2 Recommendations

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

- As discussed in the NYSDEC-approved RWP, Walden recommends the installation of a soil vapor extraction (SVE) system at 218 Lakeville Road to capture, extract and treat contaminated vapors from the subsurface and prevent off-site vapor migration.
 - Pilot testing will be conducted prior to the design of the SVE system to determine the effectiveness and efficiency of the proposed system, its optimal extraction rate(s) and radius of influence (ROI).
 - Full-scale SVE system design will incorporate the results of the SVE pilot test and include the completion of engineering design calculations to determine the appropriate number of SVE wells to be utilized, well depths and screen intervals, extraction rates and ROIs, in addition to other system parameters.
- Walden also recommends the installation of a sub-slab depressurization (SSD) system at 5 University Place to prevent VOC vapor migration into the building.
 - The SSD system design will specify fans and piping required to draw vapors from beneath the basement slab as such to create adequate vacuum to prevent sub-slab vapors from entering the building and avoid indoor air quality impacts.
 - The SSD system will be designed and installed to minimize construction/operating impacts to the extent possible.
- Design plans/specifications and Operation, Monitoring and Maintenance (OM&M) Plans for the SVE and SSD systems will be developed and submitted to the NYSDEC and NYSDOH under separate cover for review and approval.
- Source removal actions will be performed as appropriate based on the results of the May 2019 pre-design soil and groundwater investigation. A report summarizing the pre-design investigation results will be submitted to NSYDEC and NYSDOH under separate cover.

TABLES

FORMER IMPERIAL CLEANERS SITE
218 LAKEVILLE ROAD
LAKE SUCCESS, NY
BCP SITE #C130225

TABLE 1
SUMMARY OF APRIL 2019 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 (Former Dry Cleaners Space)						218 Lakeville Road (Tobacco Shop)			
					Indoor Air Concentration (µg/m³)		Sub-Slab Vapor Concentration (µg/m³)				Indoor Air Concentration (µg/m³)		Sub-Slab Vapor Concentration (µg/m³)	
					IA-1		SS-1		SS-DUP (SS-1)		IA-2		SS-2	
					4/4/2019	Q	4/4/2019	Q	4/4/2019	Q	4/4/2019	Q	4/4/2019	Q
1,1,1,2-Tetrachloroethane	630-20-6				<1.00 U		<5.00 U		<5.00 U		<1.00 U		<5.00 U	
1,1,1-Trichloroethane	71-55-6		20.6	2.6	<1.00 U		<5.00 U		<5.00 U		<1.00 U		<5.00 U	
1,1,2,2-Tetrachloroethane	79-34-5				<1.00 U		<5.00 U		<5.00 U		<1.00 U		<5.00 U	
1,1,2-Trichloroethane	79-00-5		<1.5	<1.6	<1.00 U		<5.00 U		<5.00 U		<1.00 U		<5.00 U	
1,1-Dichloroethane	75-34-3		<0.7	<0.6	<1.00 U		<5.02 U		<5.02 U		<1.00 U		<5.02 U	
1,1-Dichloroethene	75-35-4		<1.4	<1.4	<0.20 U		<1.00 U		<1.00 U		<0.20 U		<1.00 U	
1,2,4-Trichlorobenzene	120-82-1		<6.8	<6.4	<1.00 U		<5.00 U		<5.00 U		<1.00 U		<5.00 U	
1,2,4-Trimethylbenzene	95-63-6		9.5	5.8	<1.00 U		<5.01 U		<5.01 U		1.72		<5.01 U	
1,2-Dibromoethane (EDB)	106-93-4		<1.5	<1.6	<1.00 U		<5.00 U		<5.00 U		<1.00 U		<5.00 U	
1,2-Dichlorobenzene	95-50-1		<1.2	<1.2	<1.00 U		<5.00 U		<5.00 U		<1.00 U		<5.00 U	
1,2-Dichloroethane	107-06-2		<0.9	<0.8	<1.00 U		<5.02 U		<5.02 U		<1.00 U		<5.02 U	
1,2-Dichloropropane	78-87-5		<1.6	<1.6	<1.00 U		<4.99 U		<4.99 U		<1.00 U		<4.99 U	
1,2-Dichlorotetrafluoroethane	76-14-2				<1.00 U		<5.00 U		<5.00 U		<1.00 U		<5.00 U	
1,3,5-Trimethylbenzene	108-67-8		3.7	2.7	<1.00 U		<5.01 U		<5.01 U		<1.00 U		<5.01 U	
1,3-Butadiene	106-99-0		<3.0	<3.4	<1.00 U		<5.00 U		<5.00 U		<1.00 U		<5.00 U	
1,3-Dichlorobenzene	541-73-1		<2.4	<2.2	<1.00 U		<5.00 U		<5.00 U		<1.00 U		<5.00 U	
1,4-Dichlorobenzene	106-46-7		5.5	1.2	<1.00 U		<5.00 U		<5.00 U		<1.00 U		<5.00 U	
1,4-Dioxane	123-91-1				<1.00 U		<5.01 U		<5.01 U		<1.00 U		<5.01 U	
2-Hexanone (MBK)	591-78-6				<1.00 U		<4.99 U		<4.99 U		<1.00 U		<4.99 U	
4-Ethyltoluene	622-96-8		3.6	3	<1.00 U		<5.01 U		<5.01 U		<1.00 U		<5.01 U	
4-Isopropyltoluene	99-87-6				<1.00 U		<5.00 U		<5.00 U		<1.00 U		<5.00 U	
4-Methyl-2-pentanone (MIBK)	108-10-1		6	1.9	<1.00 U		<4.99 U		<4.99 U		<1.00 U		<4.99 U	
Acetone	67-64-1		98.9	43.7	5.56		8.5		8.52		8.38		5.27	
Acrylonitrile	107-13-1				<1.00 U		<5.01 U		<5.01 U		<1.00 U		<5.01 U	
Benzene	71-43-2		9.4	6.6	<1.00 U		<5.01 U		<5.01 U		<1.00 U		<5.01 U	
Benzyl chloride	100-44-7		<6.8	<6.4	<1.00 U		<5.00 U		<5.00 U		<1.00 U		<5.00 U	
Bromodichloromethane	75-27-4				<1.00 U		<5.00 U		<5.00 U		<1.00 U		<5.00 U	
Bromoform	75-25-2				<1.00 U		<5.00 U		<5.00 U		<1.00 U		<5.00 U	
Bromomethane	74-83-9		<1.7	<1.6	<1.00 U		<5.01 U		<5.01 U		<1.00 U		<5.01 U	
Carbon Disulfide	75-15-0		4.2	3.7	<1.00 U		<5.01 U		<5.01 U		<1.00 U		<5.01 U	
Carbon Tetrachloride	56-23-5		<1.3	0.7	0.53		<1.00 U		<1.00 U		0.53		<1.00 U	
Chlorobenzene	108-90-7		<0.9	<0.8	<1.00 U		<5.01 U		<5.01 U		<1.00 U		<5.01 U	
Chloroethane	75-00-3		<1.1	<1.2	<1.00 U		<5.01 U		<5.01 U		<1.00 U		<5.01 U	
Chloroform	67-66-3		1.1	0.6	<1.00 U		7.81		7.76		<1.00 U		83.9	
Chloromethane	74-87-3		3.7	3.7	1.25		<4.99 U		<4.99 U		1.3		<4.99 U	
Cis-1,2-Dichloroethene	156-59-2		<1.9	<1.8	<0.20 U		340		336		<0.20 U		303	
cis-1,3-Dichloropropene	10061-01-5		<2.3	<2.2	<1.00 U		<4.99 U		<4.99 U		<1.00 U		<4.99 U	
Cyclohexane	110-82-7				<1.00 U		<4.99 U		<4.99 U		<1.00 U		<4.99 U	
Dibromochloromethane	124-48-1				<1.00 U		<5.00 U		<5.00 U		<1.00 U		<5.00 U	
Dichlorodifluoromethane	75-71-8		16.5	8.1	2.38		<4.99 U		<4.99 U		2.34		<4.99 U	
Ethanol	64-17-5		210	57	10.5		5.1		<5.01 U		10		5.44	
Ethyl acetate	141-78-6		5.4	1.5	<1.00 U		<5.01 U		<5.01 U		<1.00 U		<5.01 U	
Ethylbenzene	100-41-4		5.7	3.5	<1.00 U		<4.99 U		<4.99 U		<1.00 U		<4.99 U	
Heptane	142-82-5				<1.00 U		<5.00 U		<5.00 U		<1.00 U		<5.00 U	
Hexachlorobutadiene	87-68-3		<6.8	<6.4	<1.00 U		<5.00 U		<5.00 U		<1.00 U		<5.00 U	
Hexane	110-54-3				<1.00 U		<5.00 U		<5.00 U		<1.00 U		<5.00 U	
Isopropylalcohol	67-63-0				2.34		<5.01 U		<5.01 U		2.83		<5.01 U	
Isopropylbenzene	98-82-8				<1.00 U		<5.01 U		<5.01 U		<1.00 U		<5.01 U	
m,p-Xylene	179601-23-1		22.2	12.8	<1.00 U		7.51		7.81		<1.00 U		<4.99 U	
Methyl Ethyl Ketone	78-93-3		12	11.3	<1.00 U		<5.01 U		<5.01 U		<1.00 U		<5.01 U	
Methyl tert-butyl ether (MTBE)	1634-04-4		11.5	6.2	<1.00 U		<5.01 U		<5.01 U		<1.00 U		<5.01 U	
Methylene Chloride	75-09-2	60	10	6.1	<3.00 U		<15.0 U		<15.0 U		<3.00 U		<15.0 U	
n-Butylbenzene	104-51-8				<1.00 U		<5.00 U		<5.00 U		<1.00 U		<5.00 U	
o-Xylene	95-47-6		7.9	4.6	<1.00 U		<4.99 U		<4.99 U		<1.00 U		<4.99 U	
Propylene	115-07-1				<1.00 U		<5.01 U		<5.01 U		<1.00 U		<5.01 U	
sec-Butylbenzene	135-98-8				<1.00 U		<5.00 U		<5.00 U		<1.00 U		<5.00 U	
Styrene	100-42-5		1.9	1.3	<1.00 U		<4.98 U		<4.98 U		<1.00 U		<4.98 U	
Tetrachloroethene	127-18-4	30	15.9	6.5	2.65		12,500		13,100		6.78		43,400	
Tetrahydrofuran	109-99-9				<1.00 U		<5.01 U		<5.01 U		<1.00 U		<5.01 U	
Toluene	108-88-3		43	33.7	<1.00 U		10		10.7		1.3		<5.01 U	
Trans-1,2-Dichloroethene	156-60-5				<1.00 U		17.1		16.5		<1.00 U		17.6	
trans-1,3-Dichloropropene	10061-02-6		<1.3	<1.4	<1.00 U		<4.99 U		<4.99 U		<1.00 U		<4.99 U	
Trichloroethene	79-01-6	2	4.2	1.3	<0.20 U		266		265		<0.20 U		370	
Trichlorofluoromethane	75-69-4		18.1	4.3	1.5		<5.00 U		<5.00 U		1.44		<5.00 U	
Trichlorotrifluoroethane	76-13-1		3.5	1.6	<1.00 U		<5.00 U		<5.00 U		<1.00 U		<5.00 U	
Vinyl Chloride	75-01-4		<1.9	<1.8	<0.20 U		<1.00 U		<1.00 U		<0.20 U		<1.00 U	

Highlighted analytes are included in the SVI Guidance 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.

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

FORMER IMPERIAL CLEANERS SITE
218 LAKEVILLE ROAD
LAKE SUCCESS, NY
BCP SITE #C130225

TABLE 1
SUMMARY OF APRIL 2019 SVI INVESTIGATION SAMPLING RESULTS

Analyte	CAS #	NYSDOH Air Guideline Value (µg/m ³)	USEPA BASE Indoor Air 90th Percentile Conc (µg/m ³)	USEPA BASE Outdoor Air 90th Percentile Conc (µg/m ³)	218 Lakeville Road (Former Deli, South)				218 Lakeville Road (CCQ Construction Inc.)					
					Indoor Air Concentration (µg/m ³)		Sub-Slab Vapor Concentration (µg/m ³)		Indoor Air Concentration (µg/m ³)				Sub-Slab Vapor Concentration (µg/m ³)	
					IA-3		SS-3		IA-4		IA-DUP (IA-4)		SS-4	
					4/4/2019	Q	4/4/2019	Q	4/4/2019	Q	4/4/2019	Q	4/4/2019	Q
1,1,1,2-Tetrachloroethane	630-20-6				<1.00	U	<5.00	U	<1.00	U	<1.00	U	<5.00	U
1,1,1-Trichloroethane	71-55-6		20.6	2.6	<1.00	U	<5.00	U	<1.00	U	<1.00	U	<5.00	U
1,1,2,2-Tetrachloroethane	79-34-5				<1.00	U	<5.00	U	<1.00	U	<1.00	U	<5.00	U
1,1,2-Trichloroethane	79-00-5		<1.5	<1.6	<1.00	U	<5.00	U	<1.00	U	<1.00	U	<5.00	U
1,1-Dichloroethane	75-34-3		<0.7	<0.6	<1.00	U	<5.02	U	<1.00	U	<1.00	U	<5.02	U
1,1-Dichloroethene	75-35-4		<1.4	<1.4	<0.20	U	<1.00	U	<0.20	U	<0.20	U	<1.00	U
1,2,4-Trichlorobenzene	120-82-1		<6.8	<6.4	<1.00	U	<5.00	U	<1.00	U	<1.00	U	<5.00	U
1,2,4-Trimethylbenzene	95-63-6		9.5	5.8	12.8		<5.01	U	18.5		16.9		<5.01	U
1,2-Dibromoethane (EDB)	106-93-4		<1.5	<1.6	<1.00	U	<5.00	U	<1.00	U	<1.00	U	<5.00	U
1,2-Dichlorobenzene	95-50-1		<1.2	<1.2	<1.00	U	<5.00	U	<1.00	U	<1.00	U	<5.00	U
1,2-Dichloroethane	107-06-2		<0.9	<0.8	<1.00	U	<5.02	U	<1.00	U	<1.00	U	<5.02	U
1,2-Dichloropropane	78-87-5		<1.6	<1.6	<1.00	U	<4.99	U	<1.00	U	<1.00	U	<4.99	U
1,2-Dichlorotetrafluoroethane	76-14-2				<1.00	U	<5.00	U	<1.00	U	<1.00	U	<5.00	U
1,3,5-Trimethylbenzene	108-67-8		3.7	2.7	3.69		<5.01	U	5.16		4.96		<5.01	U
1,3-Butadiene	106-99-0		<3.0	<3.4	<1.00	U	<5.00	U	<1.00	U	<1.00	U	<5.00	U
1,3-Dichlorobenzene	541-73-1		<2.4	<2.2	<1.00	U	<5.00	U	<1.00	U	<1.00	U	<5.00	U
1,4-Dichlorobenzene	106-46-7		5.5	1.2	<1.00	U	<5.00	U	<1.00	U	<1.00	U	<5.00	U
1,4-Dioxane	123-91-1				<1.00	U	<5.01	U	<1.00	U	<1.00	U	<5.01	U
2-Hexanone (MBK)	591-78-6				<1.00	U	<4.99	U	<1.00	U	<1.00	U	<4.99	U
4-Ethyltoluene	622-96-8		3.6	3	3.5		<5.01	U	4.96		6.34		<5.01	U
4-Isopropyltoluene	99-87-6				<1.00	U	<5.00	U	<1.00	U	<1.00	U	<5.00	U
4-Methyl-2-pentanone (MIBK)	108-10-1		6	1.9	<1.00	U	<4.99	U	<1.00	U	<1.00	U	<4.99	U
Acetone	67-64-1		98.9	43.7	14.2		<5.01	U	17.6		20.2		5.67	
Acrylonitrile	107-13-1				<1.00	U	<5.01	U	<1.00	U	<1.00	U	<5.01	U
Benzene	71-43-2		9.4	6.6	<1.00	U	<5.01	U	1.57		1.65		<5.01	U
Benzyl chloride	100-44-7		<6.8	<6.4	<1.00	U	<5.00	U	<1.00	U	<1.00	U	<5.00	U
Bromodichloromethane	75-27-4				<1.00	U	<5.00	U	<1.00	U	<1.00	U	<5.00	U
Bromoform	75-25-2				<1.00	U	<5.00	U	<1.00	U	<1.00	U	<5.00	U
Bromomethane	74-83-9		<1.7	<1.6	<1.00	U	<5.01	U	<1.00	U	<1.00	U	<5.01	U
Carbon Disulfide	75-15-0		4.2	3.7	<1.00	U	<5.01	U	<1.00	U	<1.00	U	<5.01	U
Carbon Tetrachloride	56-23-5		<1.3	0.7	0.48		<1.00	U	0.52		0.47		<1.00	U
Chlorobenzene	108-90-7		<0.9	<0.8	<1.00	U	<5.01	U	<1.00	U	<1.00	U	<5.01	U
Chloroethane	75-00-3		<1.1	<1.2	<1.00	U	<5.01	U	<1.00	U	<1.00	U	<5.01	U
Chloroform	67-66-3		1.1	0.6	<1.00	U	<4.98	U	<1.00	U	<1.00	U	10.3	
Chloromethane	74-87-3		3.7	3.7	1.29		<4.99	U	1.29		1.2		<4.99	U
Cis-1,2-Dichloroethene	156-59-2		<1.9	<1.8	<0.20	U	654		0.22		0.23		1,550	
cis-1,3-Dichloropropene	10061-01-5		<2.3	<2.2	<1.00	U	<4.99	U	<1.00	U	<1.00	U	<4.99	U
Cyclohexane	110-82-7				<1.00	U	<4.99	U	2.17		3.1		<4.99	U
Dibromochloromethane	124-48-1				<1.00	U	<5.00	U	<1.00	U	<1.00	U	<5.00	U
Dichlorodifluoromethane	75-71-8		16.5	8.1	2.29		8.6		2.36		2.35		<4.99	U
Ethanol	64-17-5		210	57	16.6		<5.01	U	27.5		33.7		<5.01	U
Ethyl acetate	141-78-6		5.4	1.5	<1.00	U	<5.01	U	<1.00	U	<1.00	U	<5.01	U
Ethylbenzene	100-41-4		5.7	3.5	<1.00	U	<4.99	U	2.23		2.52		<4.99	U
Heptane	142-82-5				1.37		<5.00	U	3.37		4.3		<5.00	U
Hexachlorobutadiene	87-68-3		<6.8	<6.4	<1.00	U	<5.00	U	<1.00	U	<1.00	U	<5.00	U
Hexane	110-54-3				2.35		<5.00	U	6.73		8.28		<5.00	U
Isopropylalcohol	67-63-0				2.51		<5.01	U	1.88		1.84		<5.01	U
Isopropylbenzene	98-82-8				<1.00	U	<5.01	U	1.12		1.17		<5.01	U
m,p-Xylene	179601-23-1		22.2	12.8	3.78		6.25		8.94		10.2		7.59	
Methyl Ethyl Ketone	78-93-3		12	11.3	2.02		<5.01	U	3.01		2.54		<5.01	U
Methyl tert-butyl ether (MTBE)	1634-04-4		11.5	6.2	<1.00	U	<5.01	U	<1.00	U	<1.00	U	<5.01	U
Methylene Chloride	75-09-2	60	10	6.1	<3.00	U	<15.0	U	<3.00	U	<3.00	U	<15.0	U
n-Butylbenzene	104-51-8				<1.00	U	<5.00	U	<1.00	U	<1.00	U	<5.00	U
o-Xylene	95-47-6		7.9	4.6	1.68		<4.99	U	3.87		4.24		<4.99	U
Propylene	115-07-1				<1.00	U	<5.01	U	<1.00	U	<1.00	U	<5.01	U
sec-Butylbenzene	135-98-8				<1.00	U	<5.00	U	<1.00	U	<1.00	U	<5.00	U
Styrene	100-42-5		1.9	1.3	1.06		<4.98	U	<1.00	U	<1.00	U	<4.98	U
Tetrachloroethene	127-18-4	30	15.9	6.5	7.73		4,570		16.9		9.08		14,600	
Tetrahydrofuran	109-99-9				3.65		<5.01	U	5.13		5.75		<5.01	U
Toluene	108-88-3		43	33.7	3.25		5.57		9.26		10.9		10.4	
Trans-1,2-Dichloroethene	156-60-5				<1.00	U	40		<1.00	U	<1.00	U	80	
trans-1,3-Dichloropropene	10061-02-6		<1.3	<1.4	<1.00	U	<4.99	U	<1.00	U	<1.00	U	<4.99	U
Trichloroethene	79-01-6	2	4.2	1.3	0.22		843		0.23		0.25		1,170	
Trichlorofluoromethane	75-69-4		18.1	4.3	1.48		<5.00	U	1.38		1.48		<5.00	U
Trichlorotrifluoroethane	76-13-1		3.5	1.6	<1.00	U	<5.00	U	<1.00	U	<1.00	U	<5.00	U
Vinyl Chloride	75-01-4		<1.9	<1.8	<0.20	U	<1.00	U	<0.20	U	<0.20	U	1.25	

Highlighted analytes are included in the SVI Guidance Decision Matrices

Qualifiers

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FORMER IMPERIAL CLEANERS SITE
218 LAKEVILLE ROAD
LAKE SUCCESS, NY
BCP SITE #C130225

TABLE 1
SUMMARY OF APRIL 2019 SVI INVESTIGATION SAMPLING RESULTS

Analyte	CAS #	NYSDOH Air Guideline Value (µg/m ³)	USEPA BASE Indoor Air 90th Percentile Conc (µg/m ³)	USEPA BASE Outdoor Air 90th Percentile Conc (µg/m ³)	220 Lakeville Road				5 University Place			
					Indoor Air Concentration (µg/m ³)		Sub-slab Vapor Concentration (µg/m ³)		Indoor Air Concentration (µg/m ³)		Sub-slab Vapor Concentration (µg/m ³)	
					IA-7		SS-7		IA-10		SS-10	
					4/4/2019	Q	4/4/2019	Q	4/4/2019	Q	4/4/2019	Q
1,1,1,2-Tetrachloroethane	630-20-6				< 1.00	U	< 1.00	U	< 1.00	U	< 5.00	U
1,1,1-Trichloroethane	71-55-6		20.6	2.6	< 1.00	U	< 1.00	U	< 1.00	U	< 5.00	U
1,1,2,2-Tetrachloroethane	79-34-5				< 1.00	U	< 1.00	U	< 1.00	U	< 5.00	U
1,1,2-Trichloroethane	79-00-5		< 1.5	< 1.6	< 1.00	U	< 1.00	U	< 1.00	U	< 5.00	U
1,1-Dichloroethane	75-34-3		< 0.7	< 0.6	< 1.00	U	< 1.00	U	< 1.00	U	< 5.02	U
1,1-Dichloroethene	75-35-4		< 1.4	< 1.4	< 0.20	U	< 0.20	U	< 0.20	U	< 1.00	U
1,2,4-Trichlorobenzene	120-82-1		< 6.8	< 6.4	< 1.00	U	< 1.00	U	< 1.00	U	< 5.00	U
1,2,4-Trimethylbenzene	95-63-6		9.5	5.8	1.06		1.98		7.76		24.4	
1,2-Dibromoethane (EDB)	106-93-4		< 1.5	< 1.6	< 1.00	U	< 1.00	U	< 1.00	U	< 5.00	U
1,2-Dichlorobenzene	95-50-1		< 1.2	< 1.2	< 1.00	U	< 1.00	U	< 1.00	U	< 5.00	U
1,2-Dichloroethane	107-06-2		< 0.9	< 0.8	< 1.00	U	< 1.00	U	< 1.00	U	< 5.02	U
1,2-Dichloropropane	78-87-5		< 1.6	< 1.6	< 1.00	U	< 1.00	U	< 1.00	U	< 4.99	U
1,2-Dichlorotetrafluoroethane	76-14-2				< 1.00	U	< 1.00	U	< 1.00	U	< 5.00	U
1,3,5-Trimethylbenzene	108-67-8		3.7	2.7	< 1.00	U	< 1.00	U	1.84		5.45	
1,3-Butadiene	106-99-0		< 3.0	< 3.4	< 1.00	U	< 1.00	U	< 1.00	U	< 5.00	U
1,3-Dichlorobenzene	541-73-1		< 2.4	< 2.2	< 1.00	U	< 1.00	U	< 1.00	U	< 5.00	U
1,4-Dichlorobenzene	106-46-7		5.5	1.2	< 1.00	U	< 1.00	U	< 1.00	U	< 5.00	U
1,4-Dioxane	123-91-1				< 1.00	U	< 1.00	U	< 1.00	U	< 5.01	U
2-Hexanone (MBK)	591-78-6				< 1.00	U	< 1.00	U	< 1.00	U	< 4.99	U
4-Ethyltoluene	622-96-8		3.6	3	< 1.00	U	< 1.00	U	2.06		7.57	
4-Isopropyltoluene	99-87-6				< 1.00	U	< 1.00	U	< 1.00	U	< 5.00	U
4-Methyl-2-pentanone (MIBK)	108-10-1		6	1.9	1.24		< 1.00	U	< 1.00	U	< 4.99	U
Acetone	67-64-1		98.9	43.7	15.4		6.03		41.1		186	
Acrylonitrile	107-13-1				< 1.00	U	< 1.00	U	< 1.00	U	< 5.01	U
Benzene	71-43-2		9.4	6.6	1.18		< 1.00	U	3.29		6.64	
Benzyl chloride	100-44-7		< 6.8	< 6.4	< 1.00	U	< 1.00	U	< 1.00	U	< 5.00	U
Bromodichloromethane	75-27-4				< 1.00	U	< 1.00	U	< 1.00	U	< 5.00	U
Bromoform	75-25-2				< 1.00	U	< 1.00	U	< 1.00	U	< 5.00	U
Bromomethane	74-83-9		< 1.7	< 1.6	< 1.00	U	< 1.00	U	< 1.00	U	< 5.01	U
Carbon Disulfide	75-15-0		4.2	3.7	< 1.00	U	< 1.00	U	< 1.00	U	5.17	
Carbon Tetrachloride	56-23-5		< 1.3	0.7	0.55		< 0.20	U	0.46		< 1.00	U
Chlorobenzene	108-90-7		< 0.9	< 0.8	< 1.00	U	< 1.00	U	< 1.00	U	< 5.01	U
Chloroethane	75-00-3		< 1.1	< 1.2	< 1.00	U	< 1.00	U	< 1.00	U	< 5.01	U
Chloroform	67-66-3		1.1	0.6	< 1.00	U	1.47		< 1.00	U	26.6	
Chloromethane	74-87-3		3.7	3.7	1.14		< 1.00	U	1.35		< 4.99	U
Cis-1,2-Dichloroethene	156-59-2		< 1.9	< 1.8	< 0.20	U	< 0.20	U	< 0.20	U	< 1.00	U
cis-1,3-Dichloropropene	10061-01-5		< 2.3	< 2.2	< 1.00	U	< 1.00	U	< 1.00	U	< 4.99	U
Cyclohexane	110-82-7				< 1.00	U	< 1.00	U	5.06		< 4.99	U
Dibromochloromethane	124-48-1				< 1.00	U	< 1.00	U	< 1.00	U	< 5.00	U
Dichlorodifluoromethane	75-71-8		16.5	8.1	2.38		2.34		3.04		< 4.99	U
Ethanol	64-17-5		210	57	15.2		3.99		102	E	18.8	
Ethyl acetate	141-78-6		5.4	1.5	< 1.00	U	< 1.00	U	4.75		< 5.01	U
Ethylbenzene	100-41-4		5.7	3.5	< 1.00	U	1.96		7.25		10.2	
Heptane	142-82-5				< 1.00	U	1.18		13.1		10.6	
Hexachlorobutadiene	87-68-3		< 6.8	< 6.4	< 1.00	U	< 1.00	U	< 1.00	U	< 5.00	U
Hexane	110-54-3				1.68		< 1.00	U	16.3		6.69	
Isopropylalcohol	67-63-0				< 1.00	U	< 1.00	U	4.32		< 5.01	U
Isopropylbenzene	98-82-8				< 1.00	U	< 1.00	U	< 1.00	U	< 5.01	U
m,p-Xylene	179601-23-1		22.2	12.8	3.68		8.25		27.5		48.6	
Methyl Ethyl Ketone	78-93-3		12	11.3	< 1.00	U	1.16		3.86		19.8	
Methyl tert-butyl ether (MTBE)	1634-04-4		11.5	6.2	< 1.00	U	< 1.00	U	< 1.00	U	< 5.01	U
Methylene Chloride	75-09-2	60	10	6.1	< 3.00	U	< 3.00	U	120		< 15.0	U
n-Butylbenzene	104-51-8				< 1.00	U	< 1.00	U	< 1.00	U	< 5.00	U
o-Xylene	95-47-6		7.9	4.6	1.06		1.91		8.94		13.5	
Propylene	115-07-1				< 1.00	U	< 1.00	U	< 1.00	U	< 5.01	U
sec-Butylbenzene	135-98-8				< 1.00	U	< 1.00	U	< 1.00	U	< 5.00	U
Styrene	100-42-5		1.9	1.3	< 1.00	U	1.88		< 1.00	U	< 4.98	U
Tetrachloroethene	127-18-4	30	15.9	6.5	0.58		< 0.25	U	11.5		7,120	
Tetrahydrofuran	109-99-9				< 1.00	U	< 1.00	U	2.73		< 5.01	U
Toluene	108-88-3		43	33.7	7.04		10.4		38.4		35.5	
Trans-1,2-Dichloroethene	156-60-5				< 1.00	U	< 1.00	U	< 1.00	U	< 4.99	U
trans-1,3-Dichloropropene	10061-02-6		< 1.3	< 1.4	< 1.00	U	< 1.00	U	< 1.00	U	< 4.99	U
Trichloroethene	79-01-6	2	4.2	1.3	< 0.20	U	< 0.20	U	0.78		82.2	
Trichlorofluoromethane	75-69-4		18.1	4.3	1.41		1.49		1.79		< 5.00	U
Trichlorotrifluoroethane	76-13-1		3.5	1.6	< 1.00	U	< 1.00	U	< 1.00	U	< 5.00	U
Vinyl Chloride	75-01-4		< 1.9	< 1.8	< 0.20	U	< 0.20	U	< 0.20	U	< 1.00	U

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Qualifiers

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FORMER IMPERIAL CLEANERS SITE
218 LAKEVILLE ROAD
LAKE SUCCESS, NY
BCP SITE #C130225

TABLE 1
SUMMARY OF APRIL 2019 SVI INVESTIGATION SAMPLING RESULTS

Analyte	CAS #	NYSDOH Air Guideline Value (µg/m ³)	USEPA BASE Indoor Air 90th Percentile Conc (µg/m ³)	USEPA BASE Outdoor Air 90th Percentile Conc (µg/m ³)	Outdoor Ambient Air Samples					
					Upwind Concentration (µg/m ³)				Downwind Concentration (µg/m ³)	
					AA-1		AA-DUP (AA-1)		AA-2	
					4/4/2019	Q	4/4/2019	Q	4/4/2019	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	<0.20	U	<0.20	U	<0.20	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	<1.00	U	<1.00	U	<1.00	U
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	<1.00	U	<1.00	U	<1.00	U
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	<1.00	U	<1.00	U	<1.00	U
4-Isopropyltoluene	99-87-6				<1.00	U	<1.00	U	<1.00	U
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	4.25		6.91		3.96	
Acrylonitrile	107-13-1				<1.00	U	<1.00	U	<1.00	U
Benzene	71-43-2		9.4	6.6	<1.00	U	<1.00	U	<1.00	U
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	1.47		<1.00	U	<1.00	U
Carbon Tetrachloride	56-23-5		<1.3	0.7	0.52		0.5		0.5	
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	1.32		1.32		1.23	
Cis-1,2-Dichloroethene	156-59-2		<1.9	<1.8	<0.20	U	<0.20	U	<0.20	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				<1.00	U	<1.00	U	<1.00	U
Dibromochloromethane	124-48-1				<1.00	U	<1.00	U	<1.00	U
Dichlorodifluoromethane	75-71-8		16.5	8.1	2.33		2.42		2.38	
Ethanol	64-17-5		210	57	4.59		4.07		4.18	
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	<1.00	U	<1.00	U	<1.00	U
Heptane	142-82-5				<1.00	U	<1.00	U	<1.00	U
Hexachlorobutadiene	87-68-3		<6.8	<6.4	<1.00	U	<1.00	U	<1.00	U
Hexane	110-54-3				<1.00	U	<1.00	U	<1.00	U
Isopropylalcohol	67-63-0				1.41		1.27		1.66	
Isopropylbenzene	98-82-8				<1.00	U	<1.00	U	<1.00	U
m,p-Xylene	179601-23-1		22.2	12.8	<1.00	U	<1.00	U	<1.00	U
Methyl Ethyl Ketone	78-93-3		12	11.3	<1.00	U	<1.00	U	<1.00	U
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	<3.00	U	<3.00	U	<3.00	U
n-Butylbenzene	104-51-8				<1.00	U	<1.00	U	<1.00	U
o-Xylene	95-47-6		7.9	4.6	<1.00	U	<1.00	U	<1.00	U
Propylene	115-07-1				<1.00	U	<1.00	U	<1.00	U
sec-Butylbenzene	135-98-8				<1.00	U	<1.00	U	<1.00	U
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	<0.25	U	<0.25	U	<0.25	U
Tetrahydrofuran	109-99-9				<1.00	U	<1.00	U	<1.00	U
Toluene	108-88-3		43	33.7	<1.00	U	<1.00	U	<1.00	U
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	<0.20	U	<0.20	U	<0.20	U
Trichlorofluoromethane	75-69-4		18.1	4.3	1.42		1.48		1.4	
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	<0.20	U	<0.20	U	<0.20	U

Highlighted analytes are included in the SVI Guidance Decision Matrices

Qualifiers

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FORMER IMPERIAL CLEANERS SITE
218 LAKEVILLE ROAD
LAKE SUCCESS, NY
BCP SITE #C130225

TABLE 2
SVI INVESTIGATION SAMPLING RESULTS (APRIL 4-5, 2019) SVI GUIDANCE DECISION MATRIX COMPARISON

Location	SVI GUIDANCE DECISION MATRIX A				SVI GUIDANCE DECISION MATRIX B			SVI GUIDANCE DECISION MTRX C
	Carbon Tetrachloride µg/m ³	Trichloroethene µg/m ³	1,1-Dichloroethene µg/m ³	cis-1,2-Dichloroethene µg/m ³	Methylene Chloride µg/m ³	1,1,1-Trichloroethane µg/m ³	Tetrachloroethene µg/m ³	Vinyl Chloride µg/m ³
218 Lakeville Road								
Former Cleaners (Vacant)								
IA-1	0.53	<0.20	<0.20	<0.20	< 3.00	<1.00	2.65	<0.20
Matrix Range Indoor Air	0.2 to < 1	< 0.2	< 0.2	< 0.2	< 3	< 3	< 3	< 0.2
SS-1 Result/Duplicate SS-DUP	<1.00/<1.00	266/265	<1.00/<1.00	340/336	< 15.0/< 15.0	<5.00/<5.00	12,500/13,100	<1.00/<1.00
Matrix Range Sub-Slab Vapor	< 6	60 and above	< 6	60 and above	< 100	< 100	1,000 and above	< 6
<i>Recommended Action</i>	<i>No Further Action</i>	<i>Mitigate</i>	<i>No Further Action</i>	<i>Mitigate</i>	<i>No Further Action</i>	<i>No Further Action</i>	<i>Mitigate</i>	<i>No Further Action</i>
Tobacco Shop								
IA-2 Result	0.53	<0.20	<0.20	<0.20	< 3.00	<1.00	6.78	<0.20
Matrix Range Indoor Air	0.2 to < 1	< 0.2	< 0.2	< 0.2	< 3	< 3	3 to < 10	< 0.2
SS-2 Result	<1.00	370	<1.00	303	< 15.0	<5.00	43,400	<1.00
Matrix Range Sub-Slab Vapor	< 6	60 and above	< 6	60 and above	< 100	< 100	1,000 and above	< 6
<i>Recommended Action</i>	<i>No Further Action</i>	<i>Mitigate</i>	<i>No Further Action</i>	<i>Mitigate</i>	<i>No Further Action</i>	<i>No Further Action</i>	<i>Mitigate</i>	<i>No Further Action</i>
Former Deli South (Vacant)								
IA-3 Result	0.48	0.22	<0.20	<0.20	< 3.00	<1.00	7.73	<0.20
Matrix Range Indoor Air	0.2 to < 1	0.2 to < 1	< 0.2	< 0.2	< 3	< 3	3 to < 10	< 0.2
SS-3 Result	<1.00	843	<1.00	654	<15.0	<5.00	4,570	<1.00
Matrix Range Sub-Slab Vapor	< 6	60 and above	< 6	60 and above	< 100	< 100	1,000 and above	< 6
<i>Recommended Action</i>	<i>No Further Action</i>	<i>Mitigate</i>	<i>No Further Action</i>	<i>Mitigate</i>	<i>No Further Action</i>	<i>No Further Action</i>	<i>Mitigate</i>	<i>No Further Action</i>
CCQ Construction Inc.								
IA-4/IA-DUP Result	0.52/0.47	0.23/0.25	<0.20/<0.20	0.22/0.23	< 3.00/<3.00	<1.00/<1.00	16.9/9.08	<0.20/<0.20
Matrix Range Indoor Air	0.2 to < 1	0.2 to < 1	< 0.2	0.2 to < 1	< 3	< 3	10 and above	< 0.2
SS-4	<1.00	1,170	<1.00	1,550	< 15.0	<5.00	14,600	1.25
Matrix Range Sub-Slab Vapor	< 6	60 and above	< 6	60 and above	< 100	< 100	1,000 and above	< 6
<i>Recommended Action</i>	<i>No Further Action</i>	<i>Mitigate</i>	<i>No Further Action</i>	<i>Mitigate</i>	<i>No Further Action</i>	<i>No Further Action</i>	<i>Mitigate</i>	<i>No Further Action</i>
220 Lakeville Road								
IA-7 Result	0.55	<0.20	<0.20	<0.20	< 3.00	<1.00	0.58	<0.20
Matrix Range Indoor Air	0.2 to < 1	< 0.2	< 0.2	< 0.2	< 3	< 3	< 3	< 0.2
SS-7 Result	<0.20	<0.20	<0.20	<0.20	< 3.00	<1.00	<0.25	<0.20
Matrix Range Sub-Slab Vapor	< 6	< 6	< 6	< 6	< 100	< 100	< 100	< 6
<i>Recommended 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>	<i>No Further Action</i>	<i>No Further Action</i>
5 University Place								
IA-10 Result	0.46	0.78	<0.20	<0.20	120	<1.00	11.5	<0.20
Matrix Range Indoor Air	0.2 to < 1	0.2 to < 1	< 0.2	< 0.2	10 and above	< 3	10 and above	< 0.2
SS-10 Result	<1.00	82.2	<1.00	<1.00	< 15.0	<5.00	7,120	<1.00
Matrix Range Sub-Slab Vapor	< 6	60 and above	< 6	< 6	< 100	< 100	1,000 and above	< 6
<i>Recommended Action</i>	<i>No Further Action</i>	<i>Mitigate</i>	<i>No Further Action</i>	<i>No Further Action</i>	<i>Identify Source, Resample or Mitigate</i>	<i>No Further Action</i>	<i>Mitigate</i>	<i>No Further Action</i>

Decision Matrices in tables referenced from SVI Guidance. 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.

IDENTIFY SOURCE(S) AND RESAMPLE OR MITIGATE: NYSDOH recommends that reasonable and practical actions be taken to identify the source(s) affecting the indoor air quality and that actions be implemented to reduce indoor air concentrations to within background ranges. For example, if an indoor or outdoor air source is identified, NYSDOH recommends the appropriate party implement actions to reduce the levels. In the event that indoor or outdoor sources are not readily identified or confirmed, resampling (which might include additional sub-slab vapor and indoor air sampling locations) is recommended to demonstrate that SVI mitigation actions are not needed. Based on the information available, mitigation might also be recommended when soil vapor intrusion cannot be ruled out.

MITIGATE: NYSDOH recommends mitigation to minimize current or potential exposures associated with soil vapor intrusion. The most common mitigation methods are sealing preferential pathways in conjunction with installing a sub-slab depressurization system and changing the pressurization of the building in conjunction with monitoring. The type, or combination of types, of mitigation is determined on a building-specific basis, taking into account building construction and operating conditions. Mitigation is considered a temporary measure implemented to address exposures related to soil vapor intrusion until contaminated environmental media are remediated.

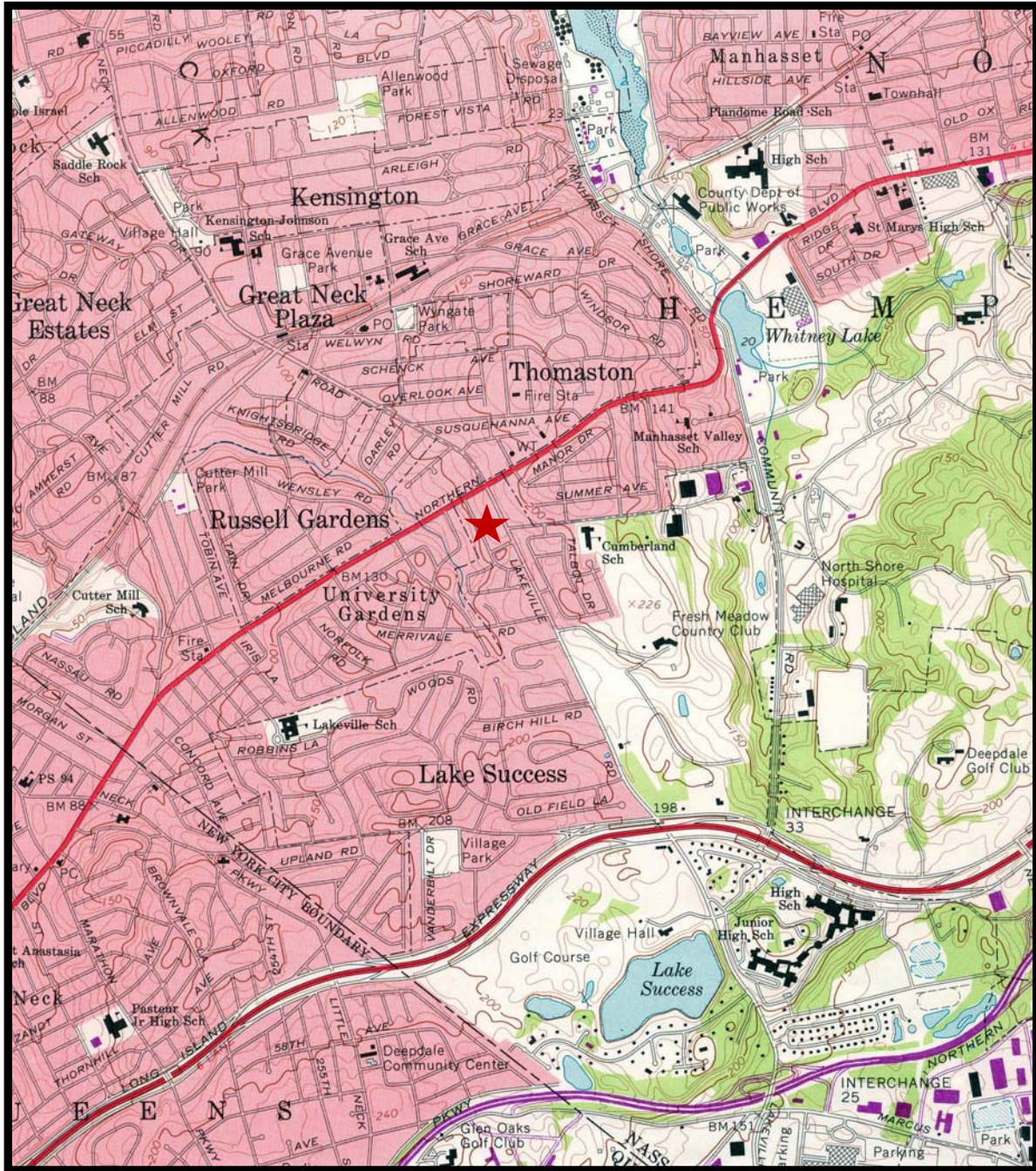
MONITOR: NYSDOH recommends monitoring (sampling on a recurring basis), including but not necessarily limited to sub-slab vapor, basement air and outdoor air sampling, to determine whether concentrations in the indoor air or sub-slab vapor have changed and/or to evaluate temporal influences. Monitoring might also be recommended 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 based on site-, building- and analyte-specific information, 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.

FIGURES

Former Imperial Cleaners Site
BCP Site #C130225
218 Lakeville Road
Lake Success, New York

FIGURE 1

SITE LOCATION MAP



(USGS QUAD Sea Cliff, New York)

(Scale 1:24000)

5
UNIVERSITY
PLACE




	SS	IA
PCE	7,120	11.5
TCE	82.2	0.78
MC	<15.0	<1.00

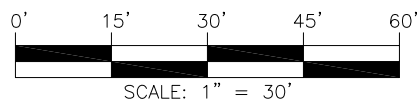
SS-10
IA-10

NOTE:

CONCENTRATIONS INDICAED ARE EXPRESSED IN MICROGRAMS PER CUBIC METER (ug/m³).

LEGEND

-  PROPERTY LINE
-  SUB-SLAB AND INDOOR AIR SAMPLE (APRIL 2019)
-  AMBIENT AIR SAMPLE (APRIL 2019)



NOTES

1. 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.
2. THE WELSH ENINGEERING NORTH AREA WAS CORRECTED BASED ON 1999 NASSAU COUNTY GIS BASEMAP.
3. UPDATES TO THIS MAP WERE MADE BY WALDEN ENVIRONMENTAL ENGINEERING BASED ON THE NASSAU COUNTY LAND RECORDS VIEWER

UNIVERSITY PLACE

4
UNIVERSITY
PLACE

2
UNIVERSITY
PLACE

UNIVERSITY ROAD

216
LAKEVILLE
ROAD

	SS	IA
PCE	14,600	16.9/9.08
TCE	1,170	0.23/0.25
MC	15.0	< 3.00/< 3.00

218
LAKEVILLE
ROAD

AA-1
AA-DUP

AA-2

	SS	IA
PCE	43,400	6.78
TCE	370	< 0.20
MC	15.0	< 3.00

Concrete Steps to Basement

Former SVE Shed

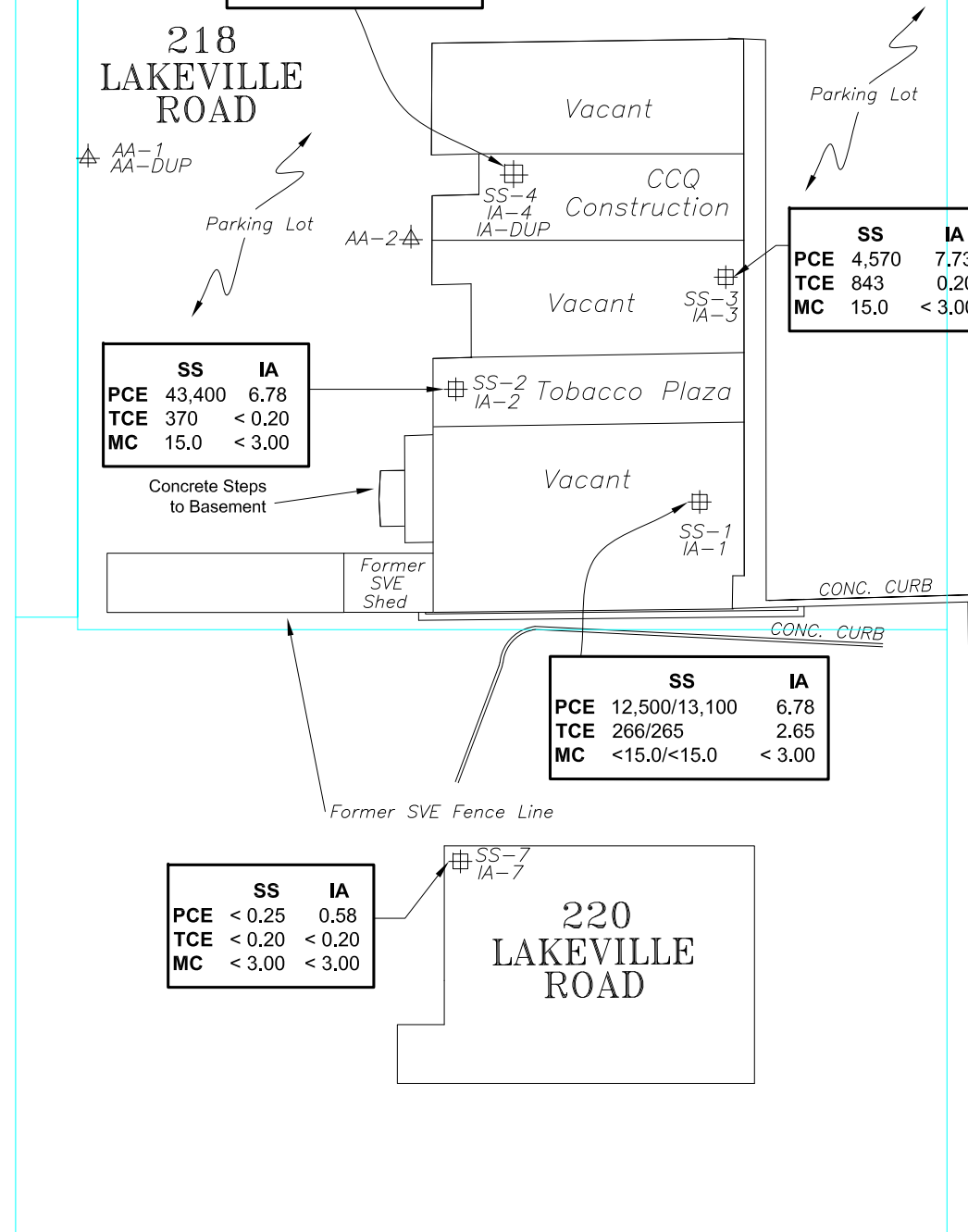
Former SVE Fence Line

	SS	IA
PCE	< 0.25	0.58
TCE	< 0.20	< 0.20
MC	< 3.00	< 3.00

220
LAKEVILLE
ROAD

	SS	IA
PCE	12,500/13,100	6.78
TCE	266/265	2.65
MC	<15.0/<15.0	< 3.00

	SS	IA
PCE	4,570	7.73
TCE	843	0.20
MC	15.0	< 3.00



LAKEVILLE ROAD

PREPARED FOR:
Former Imperial Cleaners Site
BCP Site No. C130225
218 Lakeville Road
Lake Success, New York 11020

DRAWING TITLE:
**2019 SVI INVESTIGATION
SAMPLE LOCATIONS AND RESULTS**
218 LAKEVILLE ROAD
LAKE SUCCESS, NEW YORK

Figure:
2

JOB NO: IMPL0115.6 DATE: March 5, 2020
CAD FILE NAME: 218Lakeville_Cleaners\BPL0115.6_2019_Preliminary_Investigation\CAD\20_0305\BPL0115.6.dwg

APPENDICES

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

218 Lakewille Road

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 Madeline Tierney Date/Time Prepared 4/15/19 1430

Preparer's Affiliation Walden Environmental Org. Phone No. (516) 824-7200

Purpose of Investigation Soil vapor intrusion investigations former Imperial
cleaners site VCP site # V-00244-1

1. OCCUPANT:

Interviewed: Y/N

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: _____ Office Phone: _____

Number of Occupants/persons at this location _____ Age of Occupants _____

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

Interviewed: Y/N

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 | 2-Family | 3-Family |
| Raised Ranch | Split Level | Colonial |
| Cape Cod | Contemporary | Mobile Home |
| Duplex | Apartment House | Townhouses/Condos |
| Modular | Log Home | Other: _____ |

N/A

If multiple units, how many? 11 EMS

If the property is commercial, type?

Business Type(s) vacant dry cleaner, vacant deli, contractor + tobacco shop

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

Other characteristics:

Number of floors 1 story + full basement Building age _____

Is the building insulated? Y N How air tight? Tight / Average / Not Tight

↓
basement

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 (circled) crawlspace slab other _____
- c. Basement floor: concrete (circled) dirt stone other _____
- d. Basement floor: uncovered (circled) covered covered with _____
- e. Concrete floor: unsealed (circled) sealed sealed with _____
- f. Foundation walls: poured block (circled) stone other _____
- g. Foundation walls: unsealed (circled) sealed sealed with _____
- h. The basement is: wet damp dry (circled) moldy
- i. The basement is: finished unfinished (circled) partially finished
- j. Sump present? N Y *No sump present - Floor Drains
- k. Water in sump? Y N not applicable

Basement/Lowest level depth below grade: ~12 (feet)

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

Floor Drains x 3 m (underneath space)

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 (circled)
- 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 (circled)
- Electric
- Wood
- Fuel Oil
- Propane
- Coal
- Kerosene
- Solar

Domestic hot water tank fueled by: Natural gas

- Boiler/furnace located in: Basement (circled) Outdoors Main Floor Other _____
- Air conditioning: Central Air (circled) 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 - except for tobacco

Level General Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, storage)

Shop (occasional)

Basement	Storage
1 st Floor	Vacant / Contractor office / tobacco shop
2 nd Floor	
3 rd Floor	
4 th 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? Full-time (tobacco shop)
- 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: Tobacco shop has cigar smoke odors

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

- OFF-INERIVE system shall components present

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)

N/A

a. Provide reasons why relocation is recommended: _____

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

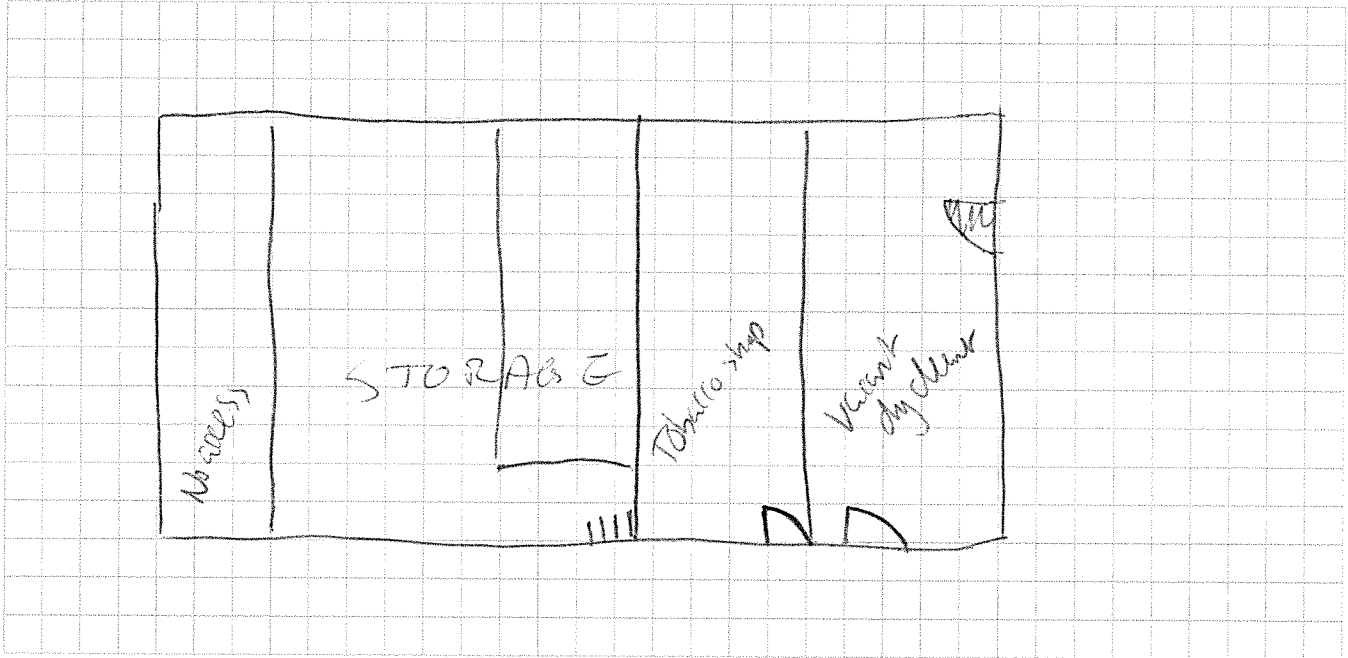
c. Responsibility for costs associated with reimbursement explained? Y / N

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

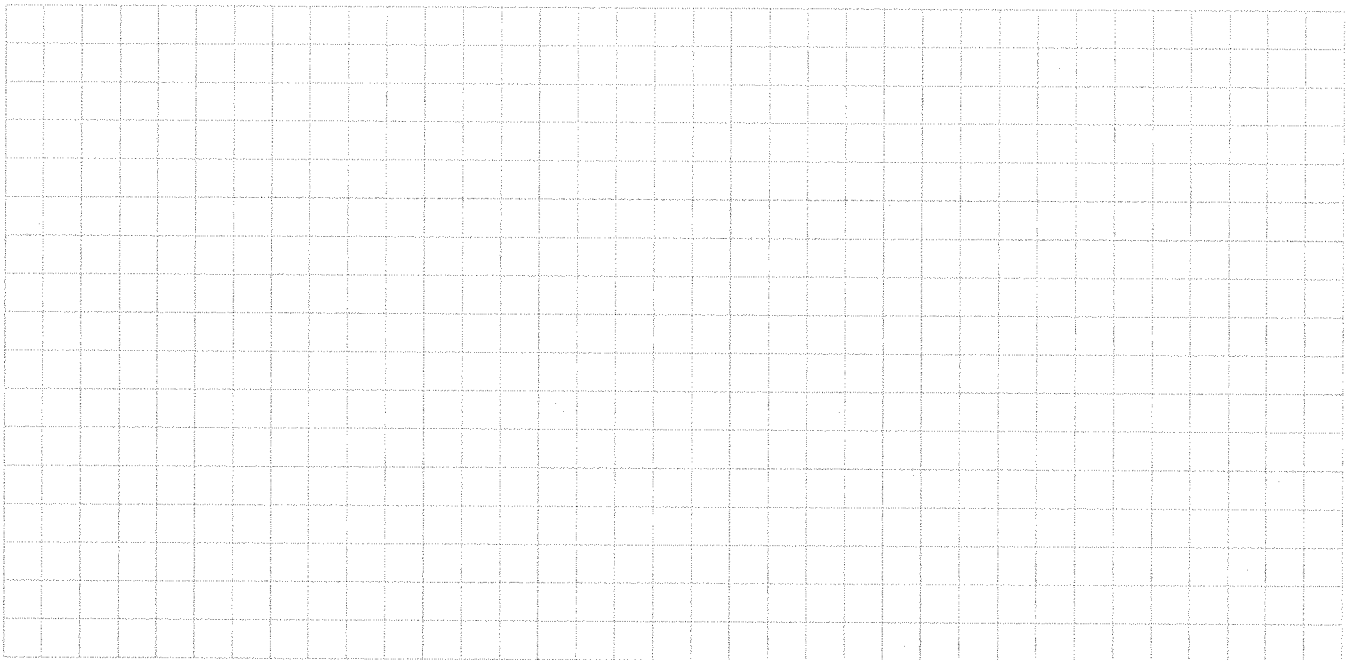
11. FLOOR PLANS

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:



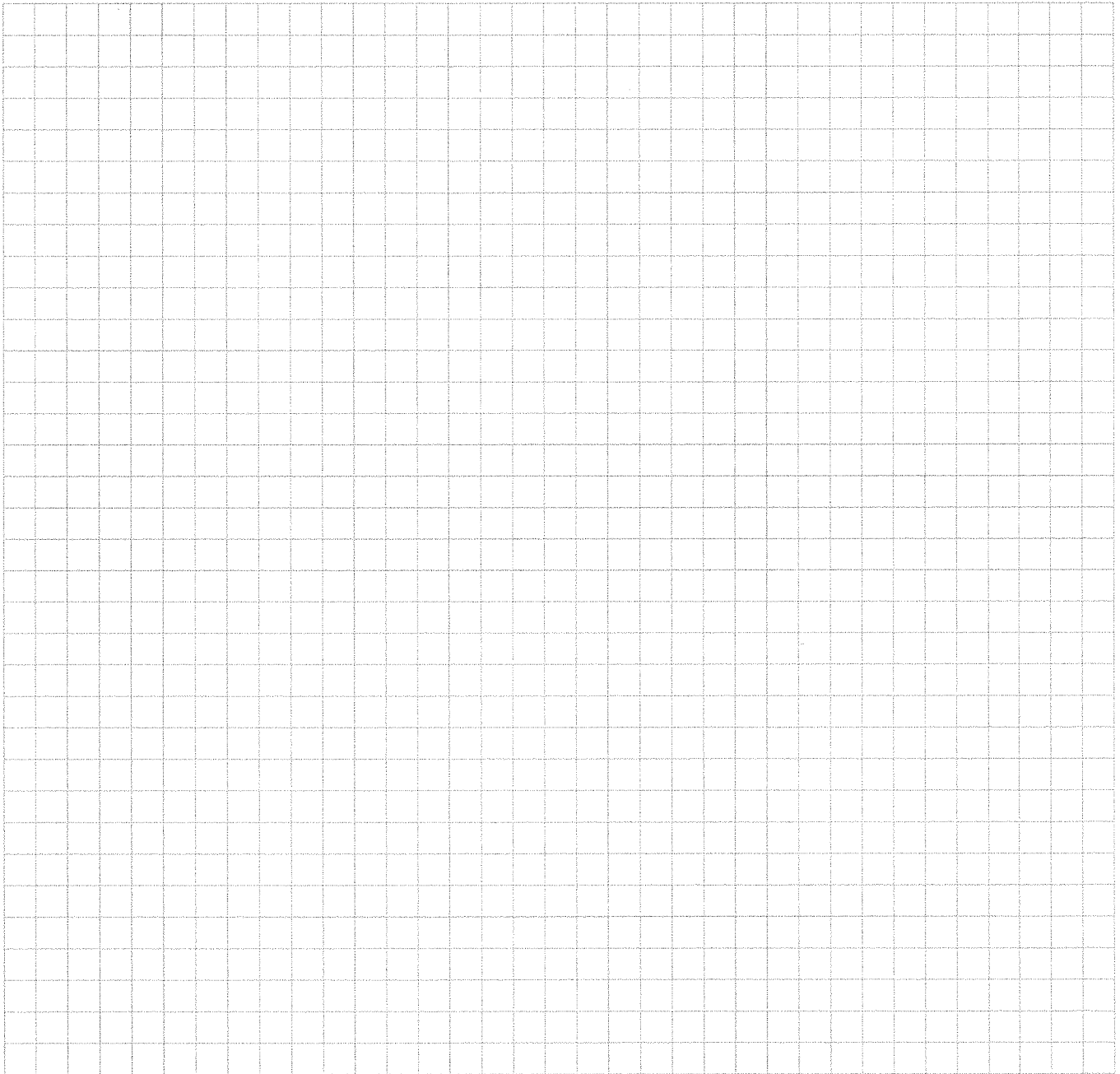
First Floor:



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
Contractor Storage	Flour paint Benzoin murex	5gal	U	5 gal x 4		
	Roberts Flooring adhesive	4gal	U	x 2		
	various color paint	32oz	U	x 5		
	Roberts floor adhesive	1gal	U			
	various paints/primer	1gal	U	x 10 45		
	Roman wall paper adhesive	2gal	U			
	Windex	1gal + 32oz	U	1 gal, 2-3 2oz		
	Great stuff foam sealant	12oz + 16oz	U/O	x 3		
	Lesbe's swimming pool dry acid	1gal	U/O			
	Concrete # 19 rock cement	10oz	U	x 6		
	various sealants	10oz	U	x 3 9		
	die hard car battery					
	Gold dust chlorinating conestake	8lbs	U/O			
	HFA super chlorinating tablets	21 lbs	U/O			
	Hydrochloric acid sunny side	1gal	U/O			
	Bustoleem	12oz	U/O 3U	x 4 7		
	RX II - Flush Net air circulation system tail	29.9oz	U			
Dynamic paint thinner	1qt	U/O				
USG Sheet Rock joint compound	4.5gal	U	x 3			

* 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.

No chemicals found

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	
Contractor storage unit North	Hybrite super	9.8oz	U/O	x 12			
	Fire extinguishers		U/O	x 3			
	Clatney x-15 shower pan	16 fl oz	U				
	Shell motor oil	5qt	U				
	Concordawn hand sanitizer	2L	U				
	3M Fire Block Foam	12 fl oz	U				
	Klean strip turpentine	1G	U				
	Thomas will weed floor cleaner	32oz	U				
	Wood stain	32oz	U	x 10			
	✓	Karnak sealant for windows	5gal	U	x 6		
	Contractor storage unit	60-mod bit Karnak adhesive	5gal	U	x 2		
		Bostik Acrylic adhesive	4gal	U	x 2		
	sure Klean 600 masonry cleaner	5gal	U				
	wild crete concrete sealer	7gal	U				
	Benzamine paint	1gal	U	x 7			
	Bondo wood filler	1.9 lb	U/O	x 2			
	Bondo cream hardener	2.57oz	U/O				
	Benzamine masonry	14.1oz	U				
✓	Great Stuff Acrylic sealant	16oz	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.

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.

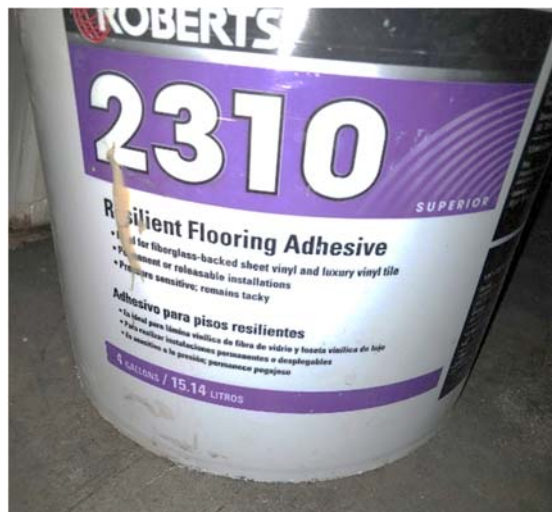
Location	Product Description	Size (units)	Condition*	Chemical Ingredients	Field Instrument Reading (units)	Photo** <u>Y/N</u>
Contractor shop south	3M Fire barrier sealant	10oz	U/O	XZ		
	Rustoleum protective enamel	8oz	U			
	Paver Renew ^{super} gloss	5 gal	U/O			
	Mapes Flex cover	1 gal	U			
	USG all purpose joint compound	5 gal	U			
	Forex King ^{star}		U/O			
Tobacco shop	Various Paints	1 gal	U	X 4		
	Various Wood Stains	1 qt	U	X 4		
	DAP Crack shot ^{spackling} Paste	1 qt	U/O			
	Rustoleum Spray Enamel	12oz	U			
	Sheetrock Joint Compound	12 lb	U			
	Great Stuff ^{ins} foam sealant	16 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.

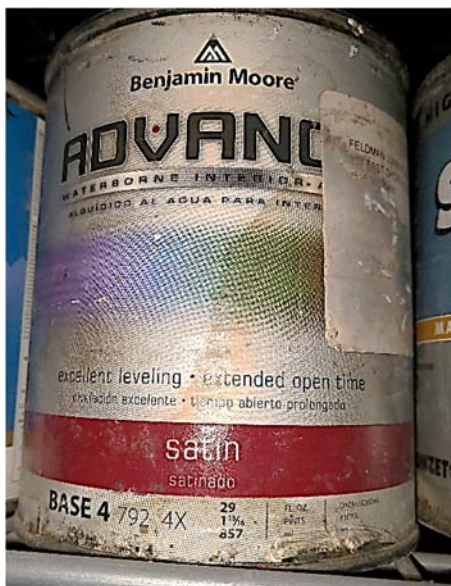
Indoor Air Quality Questionnaire and Building Inventory
Product Inventory Photographs
218 Lakeville Road, Lake Success, NY



Benjamin Moore Paint



Roberts Flooring Adhesive



Benjamin Moore Paint (Typical)



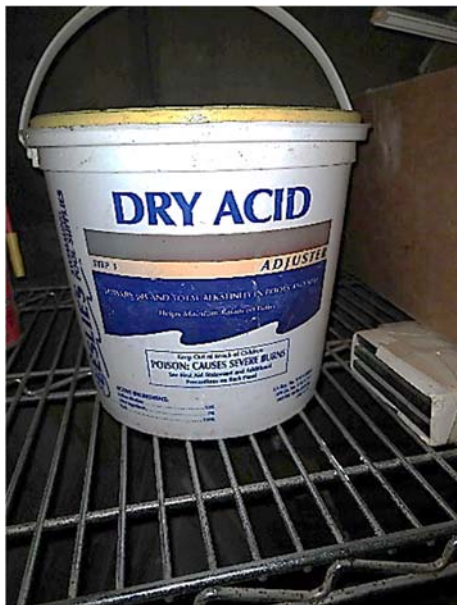
Wallpaper Adhesive



Benjamin Moore Paint



Windex Glass Cleaner



Pool pH Adjuster



Great Stuff Sealant



Karnak Flashing Roof Cement



DAP Sealant



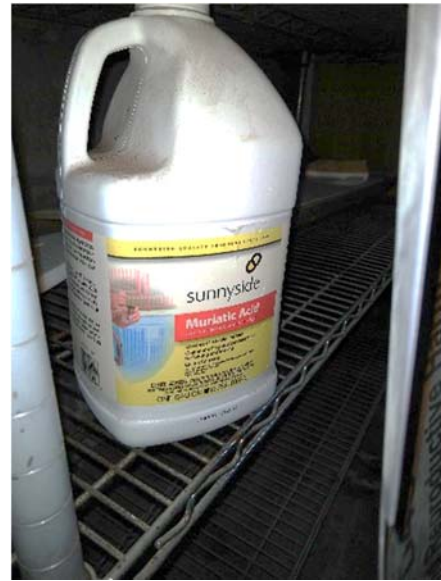
DieHard Car Battery



Gold Dust Chlorinating Compound



HTH Chlorinating Tablets



Sunnyside Muriatic Acid



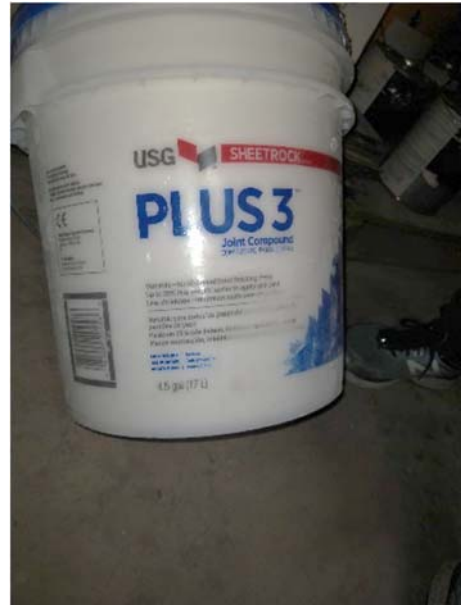
Rust-oleum Spray Paint



Rx11-flush Air Conditioning & Refrigeration System Flush



Dynamic Paint Thinner



USG Sheetrock Joint Compound



Rust-oleum Spray Paint



Rust-oleum Spray Paint



Hybrifix Super 7 Adhesive Sealant



Fire Extinguisher



Oatey Shower Pan Liner Adhesive



Shell Motor Oil



Concrobium House & Deck Wash



3M Fire Block Foam



Klean Strip Turpentine



Thomasville Wood Floor Cleaner



Various Wood Stains



Redi Shine Glass Cleaner



Glaze N' Seal Multi-Purpose Sealer



Karnak 66 Mod Bit Adhesive



Bostik BST Wood Flooring Adhesive



Prosoco Sure Klean Masonry Cleaner



Weld-Crete Concrete Adhesive



Benjamin Moore Paint



Various Spackling Formulas



Bondo Wood Filler



Bondo White Crème Hardener



Benzomatic Map/Pro



Great Stuff Sealant



3M Fire Barrier Sealant



Rust-oleum Enamel



Paver Reneu Gloss



Mapei Flexcolor CQ



PPG Speedhide Paint



Benjamin Moore Paint (Typical)



Benjamin Moore Paint (Typical)



Dap CrackShot Spackling Paste



Rust-oleum Spray Paint



Sheet Rock Joint Compound



Great Stuff Window and Door Sealant

220 Lakerville Road

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 Erica Johnston Date/Time Prepared 4/5/19 @ 13:00

Preparer's Affiliation Env. Consultant Phone No. 516-624-7200

Purpose of Investigation SVI Investigation for 218 Lakerville Road

1. OCCUPANT:

Interviewed: Y N Good stem Development Corporation

Last Name: NOCE First Name: Jennifer

Address: 220 Lakerville Road

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

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: office building

If the property is residential, type? (Circle appropriate response)

- | | | |
|--------------|-----------------|-------------------|
| Ranch | 2-Family | 3-Family |
| Raised Ranch | Split Level | Colonial |
| Cape Cod | Contemporary | Mobile Home |
| Duplex | Apartment House | Townhouses/Condos |
| Modular | Log Home | Other: _____ |

N/A

If multiple units, how many? N/A

If the property is commercial, type?

Business Type(s) Goodstern Development

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

Other characteristics:

Number of floors 2 + Basement 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

Stair cases

Airflow near source

Window, doorway + garage door

Outdoor air infiltration

Opening of doors / windows

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 paint
- e. Concrete floor: unsealed sealed sealed with epoxy/paint
- f. Foundation walls: poured ^{partially} block stone other _____
- 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)

Minor cracks ~ 2" long in the eastern portion of basement
sewer utility plumbing pipes/caps present IVO sample

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 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:

- Natural Gas Fuel Oil ^{ent} Kerosene
- Electric Propane Solar
- Wood Coal

*petrometer present
seems to be old/
disconnected*

Domestic hot water tank fueled by: Gas

- Boiler/furnace located in: Basement Outdoors Main Floor Other _____
- Air conditioning: Central Air Window units Open Windows None

Hot water tank

Are there air distribution ducts present?

(Y/N) - on 1st floor, not basement

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.

Four horizontal lines for describing ductwork.

7. OCCUPANCY

Is basement/lowest level occupied? Full-time Occasionally Seldom Almost Never

Almost Never (circled)

Level General Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, storage)

Table with 2 columns: Level (Basement, 1st Floor, 2nd Floor, 3rd Floor, 4th Floor) and General Use of Each Floor. Handwritten entries: storage/garage/whlves, offices, ↓

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... (Y/N/NA) Please specify car
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)

N/A

a. Provide reasons why relocation is recommended: _____

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

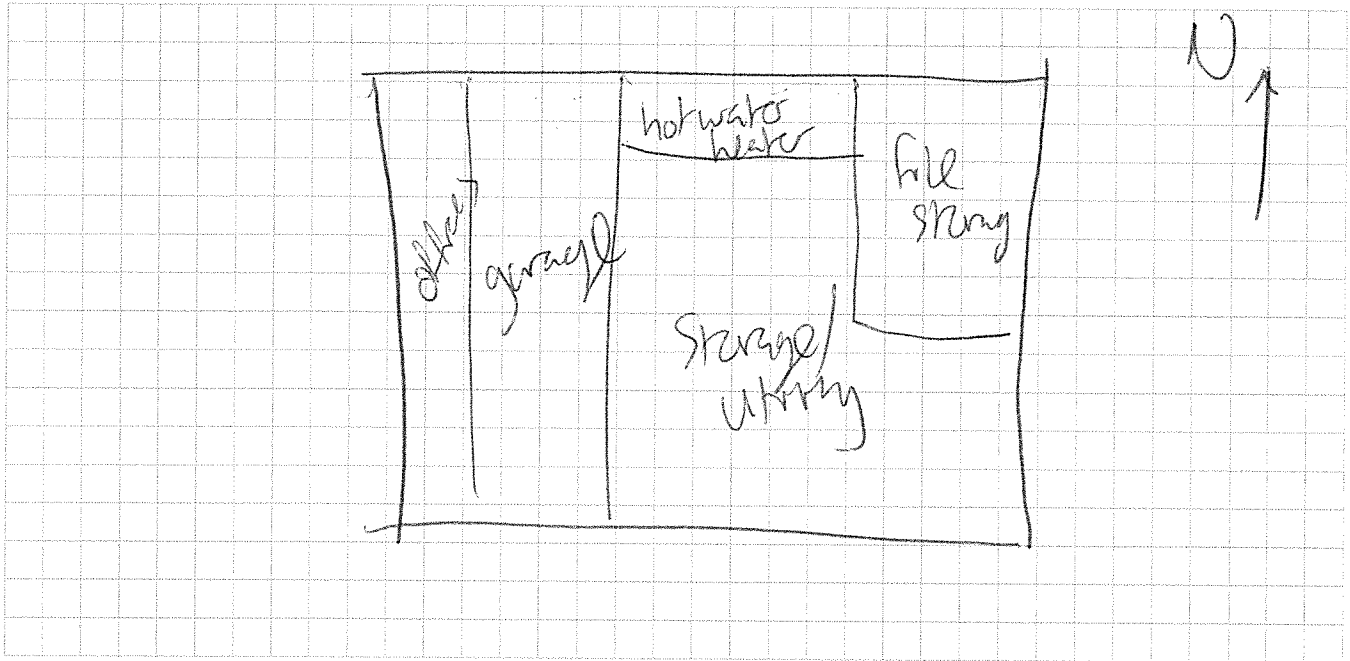
c. Responsibility for costs associated with reimbursement explained? Y / N

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

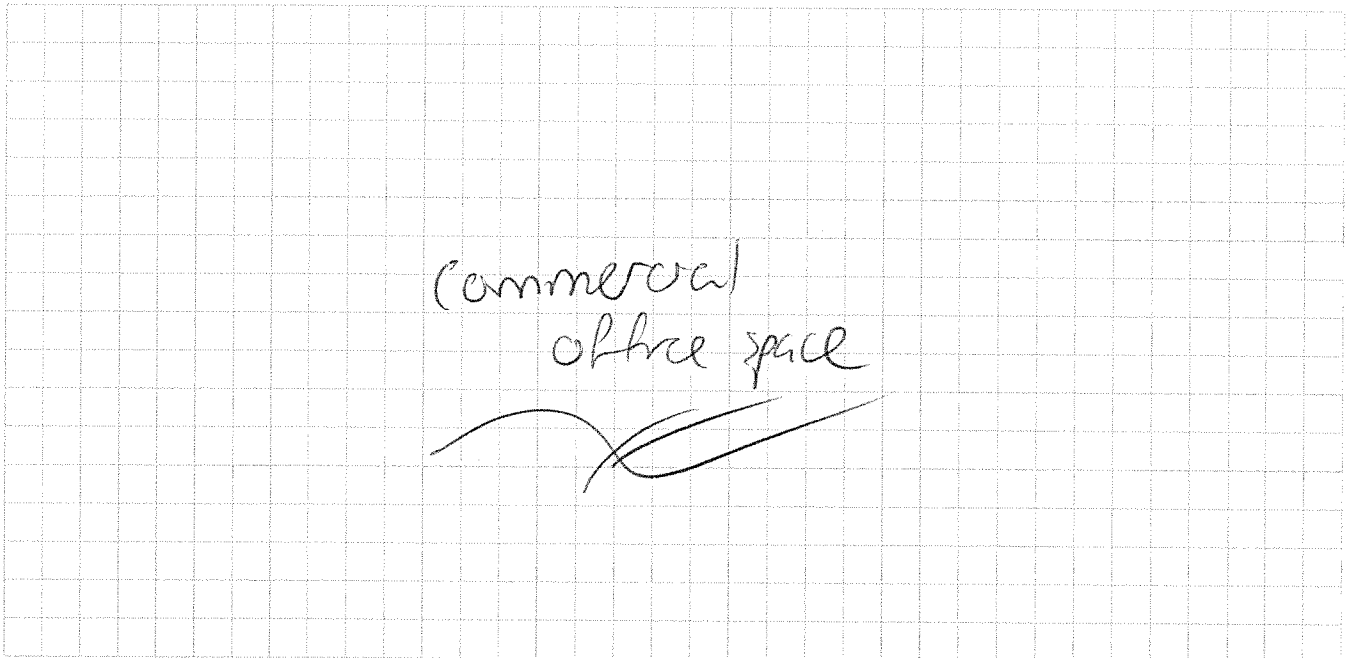
11. FLOOR PLANS

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:



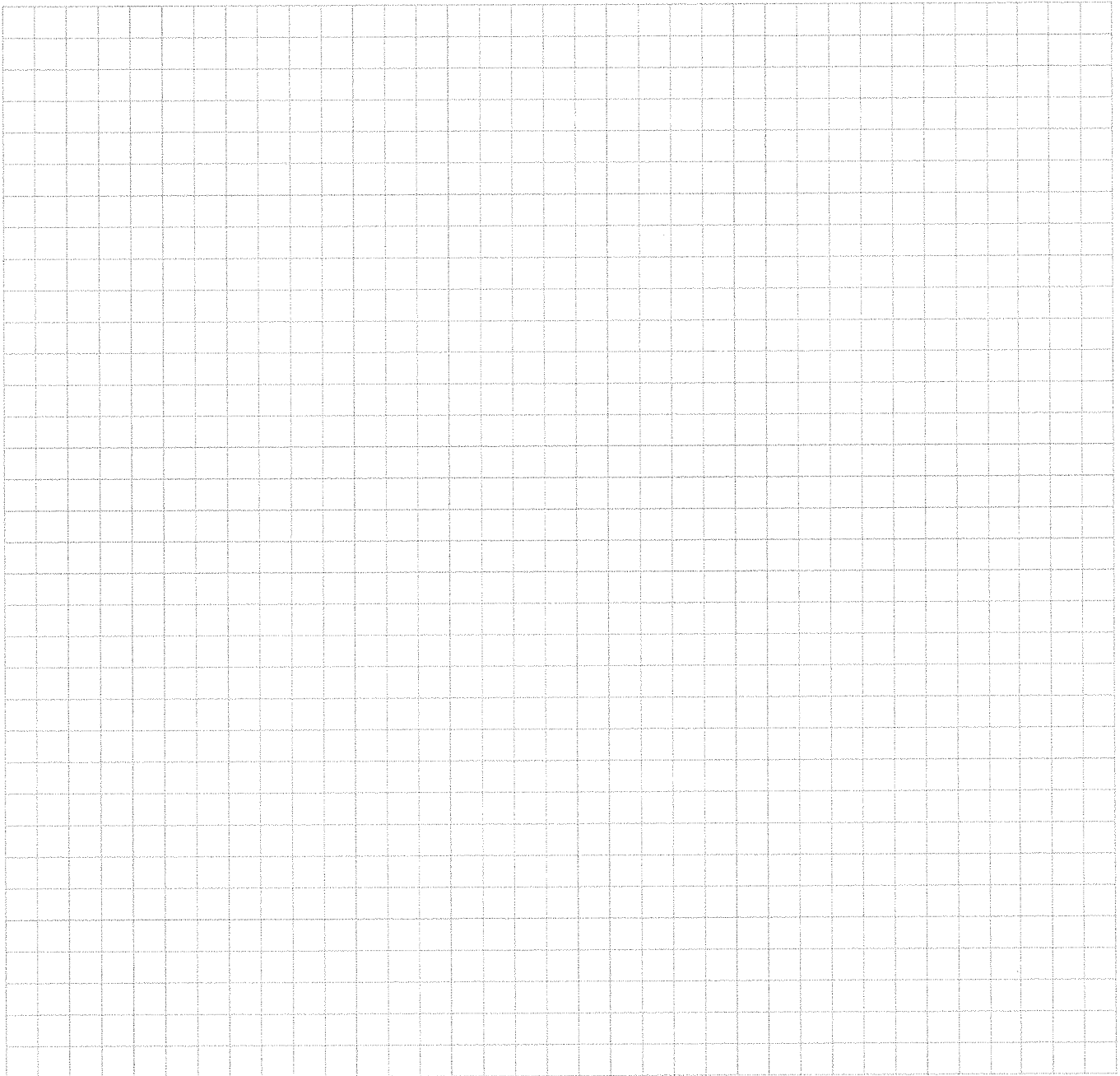
First Floor:



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
Utility storage	Klean Strip Lacquer thinner	1qt	U			
	Flood paint solvent penetrant	1qt	U			
	Titebond wood glue	16 fl oz	U			
	Blaster silicone lubricant	11.2 oz	U			
	WD-40	14.4 oz	U			
	Bondo all purpose resin	32 fl oz	U/O			
	Comet spray gel	32 fl	U			
	Mr. Clean multi surface	1 gal	U			
	Minwax Poly-	8 fl oz	U	x 2		
	Great Stuff foam sealant	16 oz	U/O			
	Minwax pre-stain conditioner	32 fl oz	U			
	Klean Strip six denatured alcohol	1qt	U			
	Klean Strip jewelry	1qt	U			
	Klean Strip acetone	1qt	U			
	Klean Strip odorless mineral spirits	1 gal	U			
	Bondo all purpose putty	11.54 oz	U/O			
	Benzonite propylene	5.45 oz	U	3 U/O	x 4	
	BEHR - paint	1 gal	2 U/O	4 U	x 6	
	Cat pumps premium pump oil	2 fl oz	U/O			

* 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.

Ridgid engine lube 12oz - U
power core engine lube 32 fl oz - U/O

metal wax polishing - 16 oz x 2
gel - 1 U 1 U/O

STIHL engine oil 5.2 fl oz - U/O x 4

metal wax metal cleaner - 24 oz U/O

Indoor Air Quality Questionnaire and Building Inventory
Product Inventory Photographs
220 Lakeville Road, Lake Success, NY



Klean Strip Lacquer Thinner



Flood Penetrol



Titebond III Ultimate Wood Glue



B'Laster Silicone Lubricant



WD-40 Lubricant



Bondo Fiberglass Resin



Comet Mildew Stain Remover



Mr. Clean Multi-Surface Cleaner



MINWAX Polyurethane



GREAT STUFF Foam Sealant



MINWAX Wood Conditioner



Klean Strip Denatured Alcohol



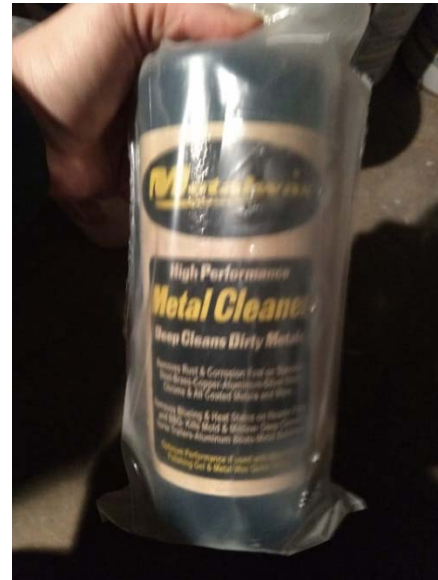
Klean Strip Japan Drier



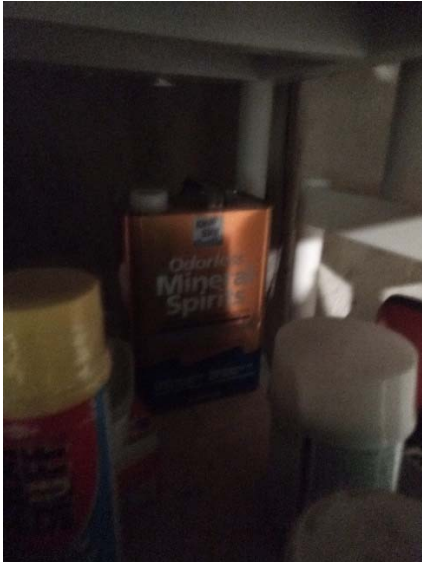
Klean Strip Acetone



Metalwax Polishing Gel



Metalwax Metal Cleaner



Klean Strip Odorless Mineral Spirits



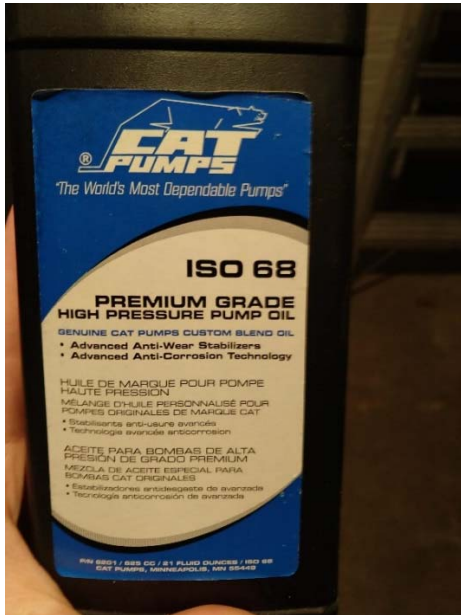
Bondo All Purpose Putty



Bernzomatic Propane Tank



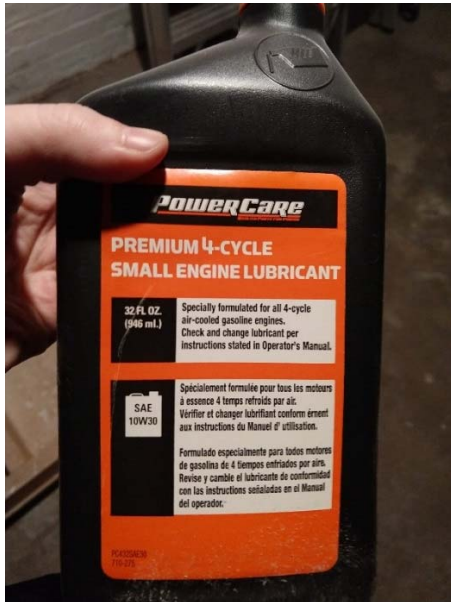
BEHR Paint and Primer in One



Cat Pumps High Pressure Pump Oil



RIDGID Small Engine Lubricant



PowerCare Small Engine Lubricant



STIHL 2-cycle Engine Oil

Sunnyside Place

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 Erica Johnson Date/Time Prepared 4/5/19 @ 15:15

Preparer's Affiliation Environmental Consultant Phone No. 516-624-7200

Purpose of Investigation SVI Investigation for 218 Lakemile Road

1. OCCUPANT:

Interviewed: Y N

Last Name: Bikundo First Name: A #1170

Address: Sunnyside place

County: Nassau

Home Phone: 516-487-5141 Office Phone: _____

Number of Occupants/persons at this location 1 Age of Occupants ~80

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
- School
- Commercial/Multi-use
- Industrial
- Church
- Other: _____

If the property is residential, type? (Circle appropriate response)

- | | | |
|--------------|-----------------|-------------------|
| <u>Ranch</u> | 2-Family | 3-Family |
| Raised Ranch | Split Level | Colonial |
| Cape Cod | Contemporary | Mobile Home |
| Duplex | Apartment House | Townhouses/Condos |
| Modular | Log Home | Other: _____ |

If multiple units, how many? N/A

If the property is commercial, type?

Business Type(s) N/A

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

Other characteristics:

Number of floors 1 + Basement Building age _____

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 tile
- e. Concrete floor: unsealed sealed sealed with unknown
- f. Foundation walls: poured block stone other _____
- g. Foundation walls: unsealed sealed sealed with unable to observe
- 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) basement is partially @ grade + partially

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

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 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:

- Natural Gas Fuel Oil Kerosene
- Electric Propane Solar
- Wood Coal

Domestic hot water tank fueled by: fuel oil

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	Residential / storage / utility
1 st Floor	Residential
2 nd Floor	
3 rd Floor	
4 th 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: _____

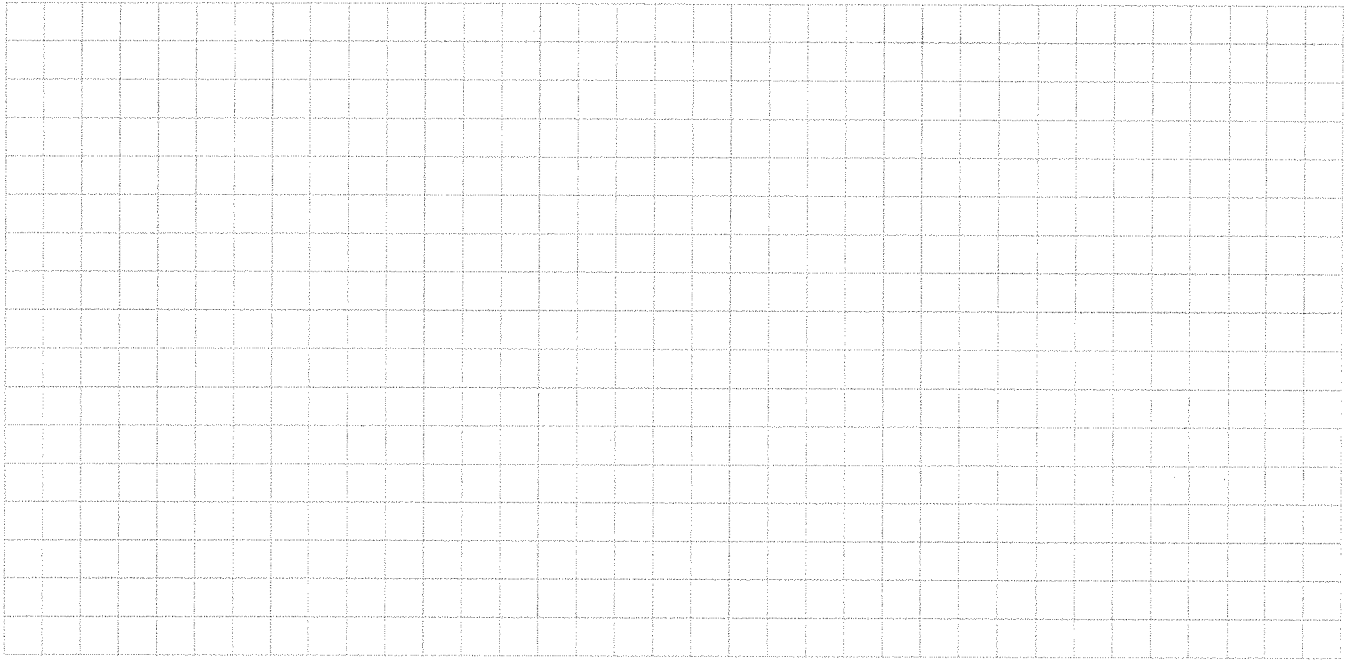
10. RELOCATION INFORMATION (for oil spill residential emergency)

- a. Provide reasons why relocation is recommended: _____
- 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

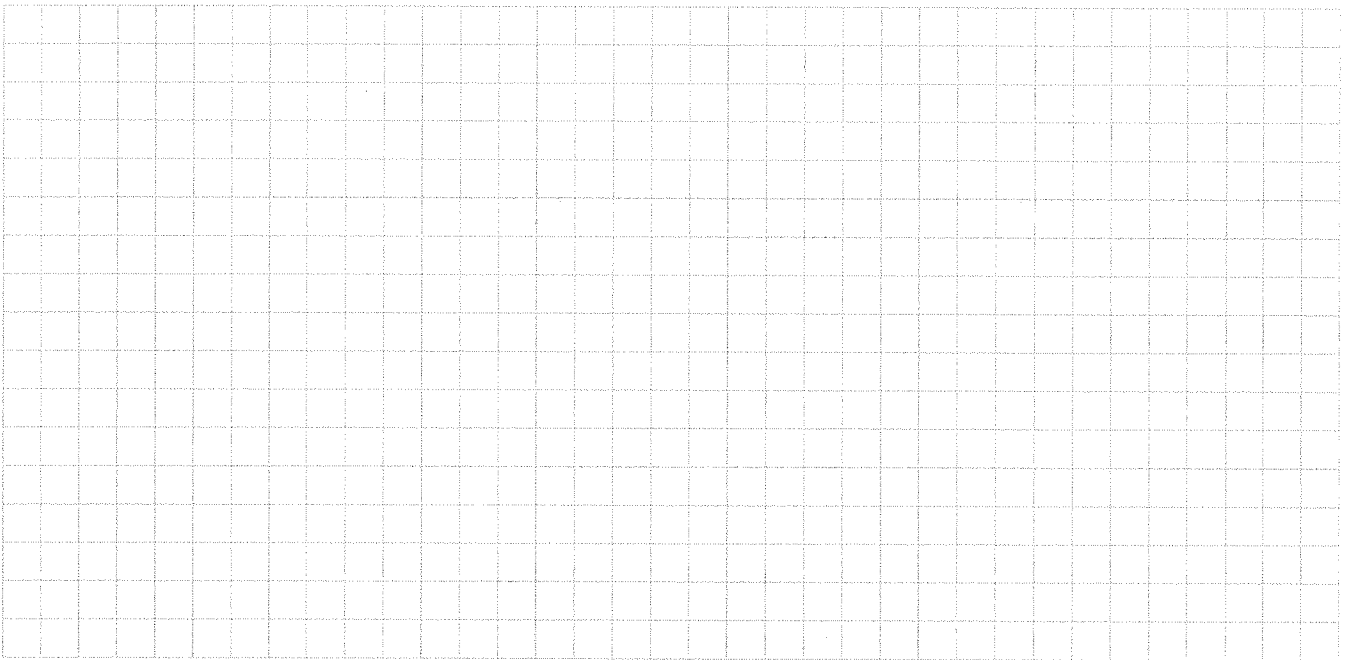
11. FLOOR PLANS

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:



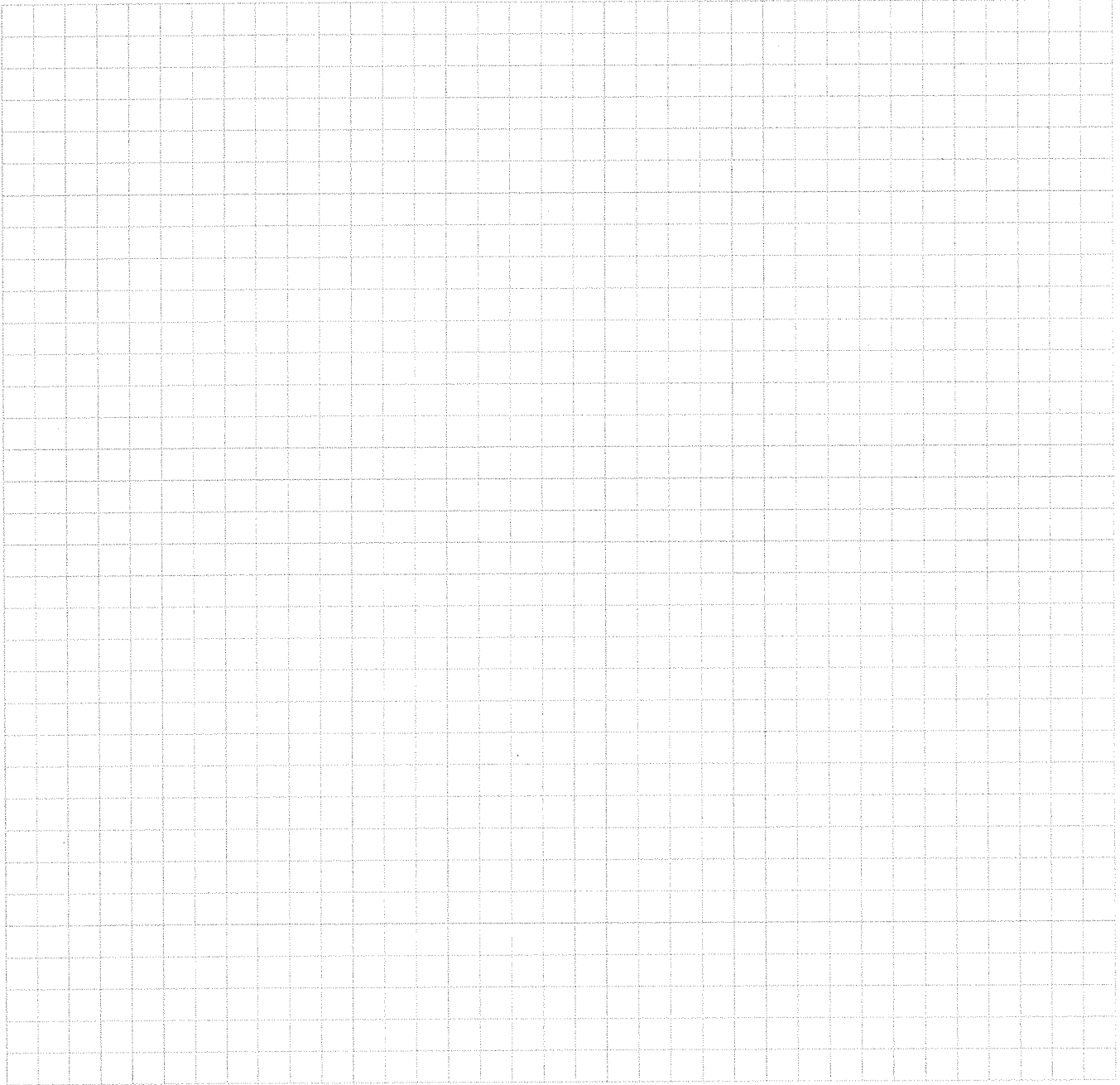
First Floor:



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
	Clorox Max performance disinfectant	3.53L	U			
	Dawny fabric softener	1.32gal	U			
	Clorox Bleach	3.57L	U			
	Shout stain remover	22fl oz	U	22fl oz x 2 + 1.34gal x 1		
	Spectracide home pest control	1 qt	U			
	Lysol disinfecting spray	19oz	U			
	Arm + Hammer w/oxi clean deodorant	1.95 gal	U			
	Clorox w/oxi bleach	22fl oz	U			
	Oxi-clean stain remover	11.61lb				
	Windex	32fl oz		X 2		
	Mr clean	1.25qt				
	Tilex	1qt		X 2		
	Fantastik	32fl oz				
	soft scrub	2lb				
	Lysol toilet cleaner	32oz		X 2		

* 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.

Indoor Air Quality Questionnaire and Building Inventory
Product Inventory Photographs
5 University Place, Lake Success, NY



Ultra Downy Fabric Conditioner



Clorox Stain Remover and Color Booster



Bounce Fabric Softener Dryer Sheets



Clorox Bleach



OxiClean Stain Remover



OxiClean Stain Remover



Arm & Hammer Laundry Detergent



Shout Laundry Detergent



Spectracide Pest Control



Lysol Disinfectant Spray



Clorox Stain Remover



Shout Stain Remover



OxiClean Stain Remover/Bleach



Spray 'n Wash Stain Remover



Windex Glass Cleaner



Tilex Bathroom Cleaner



Lysol Toilet Bowl Cleaner



Windex Glass Cleaner



Tilex Bathroom Cleaner



Soft Scrub with Bleach Cleanser



Fantastik All Purpose Cleaner



Mr. Clean Multi-Purpose Cleaner



Lysol Toilet Bowl Cleaner

APPENDIX B
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

GCC90508

Ver 1

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Tuesday, April 30, 2019

Attn: Erica Johnston
Walden Environmental Engineering PLLC
16 Spring Street
Oyster Bay, NY 11771

Project ID: 218 LAKEVILLE RD
SDG ID: GCC90508
Sample ID#s: CC90508 - CC90524

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. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

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

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,

A handwritten signature in black ink that reads "Phyllis Shiller". The signature is written in a cursive style.

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
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
UT Lab Registration #CT00007
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: GCC90508



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

April 30, 2019

SDG I.D.: GCC90508

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.



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

April 30, 2019

SDG I.D.: GCC90508

Walden Environmental Engineering PLLC 218 LAKEVILLE RD

Laboratory Chronicle

Sample	Analysis	Collection Date	Prep Date	Analysis Date	Analyst	Hold Time Met
CC90508	Volatiles (TO15)	04/04/19	04/09/19	04/09/19	KCA	Y
CC90509	Volatiles (TO15)	04/04/19	04/10/19	04/10/19	KCA	Y
CC90510	Volatiles (TO15)	04/04/19	04/10/19	04/10/19	KCA	Y
CC90511	Volatiles (TO15)	04/04/19	04/10/19	04/10/19	KCA	Y
CC90512	Volatiles (TO15)	04/04/19	04/10/19	04/10/19	KCA	Y
CC90513	Volatiles (TO15)	04/04/19	04/09/19	04/09/19	KCA	Y
CC90514	Volatiles (TO15)	04/04/19	04/09/19	04/09/19	KCA	Y
CC90515	Volatiles (TO15)	04/04/19	04/09/19	04/09/19	KCA	Y
CC90516	Volatiles (TO15)	04/04/19	04/09/19	04/09/19	KCA	Y
CC90517	Volatiles (TO15)	04/04/19	04/10/19	04/10/19	KCA	Y
CC90518	Volatiles (TO15)	04/04/19	04/09/19	04/09/19	KCA	Y
CC90519	Volatiles (TO15)	04/04/19	04/09/19	04/09/19	KCA	Y
CC90520	Volatiles (TO15)	04/04/19	04/09/19	04/09/19	KCA	Y
CC90521	Volatiles (TO15)	04/04/19	04/10/19	04/10/19	KCA	Y
CC90522	Volatiles (TO15)	04/04/19	04/10/19	04/10/19	KCA	Y
CC90523	Volatiles (TO15)	04/04/19	04/10/19	04/10/19	KCA	Y
CC90524	Volatiles (TO15)	04/04/19	04/10/19	04/10/19	KCA	Y



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



SDG Comments

April 30, 2019

SDG I.D.: GCC90508

Any compound that is not detected above the MDL/LOD is reported as ND on the report and is reported in the electronic deliverables (EDD) as <RL or U at the RL per state and EPA guidance.

Version 1: Analysis results minus raw data.

Version 2: Complete report with raw data.



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Sample Id Cross Reference

April 30, 2019

SDG I.D.: GCC90508

Project ID: 218 LAKEVILLE RD

Client Id	Lab Id	Matrix
IA-4	CC90508	AIR
SS-3	CC90509	AIR
SS-7	CC90510	AIR
SS-4	CC90511	AIR
SS-DUP	CC90512	AIR
IA-7	CC90513	AIR
IA-1	CC90514	AIR
IA-2	CC90515	AIR
IA-3	CC90516	AIR
SS-2	CC90517	AIR
AA-DUP	CC90518	AIR
AA-1	CC90519	AIR
AA-2	CC90520	AIR
IA-10	CC90521	AIR
IA-DUP	CC90522	AIR
SS-10	CC90523	AIR
SS-1	CC90524	AIR



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Analysis Report

April 30, 2019

FOR: Attn: Erica Johnston
 Walden Environmental Engineering PLLC
 16 Spring Street
 Oyster Bay, NY 11771

Sample Information

Matrix: AIR
 Location Code: WALDENE
 Rush Request: Standard
 P.O.#: IMPL0115.6
 Canister Id: 492

Custody Information

Collected by: EMJ, JKB,
 Received by: MCT
 Analyzed by: see "By" below

Date Time
 04/04/19 13:45
 04/08/19 15:26

Laboratory Data

SDG ID: GCC90508
 Phoenix ID: CC90508

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	04/09/19	KCA	1
1,1,1-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	04/09/19	KCA	1
1,1,2,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	04/09/19	KCA	1
1,1,2-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	04/09/19	KCA	1
1,1-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	04/09/19	KCA	1
1,1-Dichloroethene	ND	0.051	0.051	ND	0.20	0.20	04/09/19	KCA	1
1,2,4-Trichlorobenzene	ND	0.135	0.135	ND	1.00	1.00	04/09/19	KCA	1
1,2,4-Trimethylbenzene	3.77	0.204	0.204	18.5	1.00	1.00	04/09/19	KCA	1
1,2-Dibromoethane(EDB)	ND	0.130	0.130	ND	1.00	1.00	04/09/19	KCA	1
1,2-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	04/09/19	KCA	1
1,2-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	04/09/19	KCA	1
1,2-dichloropropane	ND	0.217	0.217	ND	1.00	1.00	04/09/19	KCA	1
1,2-Dichlorotetrafluoroethane	ND	0.143	0.143	ND	1.00	1.00	04/09/19	KCA	1
1,3,5-Trimethylbenzene	1.05	0.204	0.204	5.16	1.00	1.00	04/09/19	KCA	1
1,3-Butadiene	ND	0.452	0.452	ND	1.00	1.00	04/09/19	KCA	1
1,3-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	04/09/19	KCA	1
1,4-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	04/09/19	KCA	1
1,4-Dioxane	ND	0.278	0.278	ND	1.00	1.00	04/09/19	KCA	1
2-Hexanone(MBK)	ND	0.244	0.244	ND	1.00	1.00	04/09/19	KCA	1
4-Ethyltoluene	1.01	0.204	0.204	4.96	1.00	1.00	04/09/19	KCA	1
4-Isopropyltoluene	ND	0.182	0.182	ND	1.00	1.00	04/09/19	KCA	1
4-Methyl-2-pentanone(MIBK)	ND	0.244	0.244	ND	1.00	1.00	04/09/19	KCA	1
Acetone	7.42	0.421	0.421	17.6	1.00	1.00	04/09/19	KCA	1
Acrylonitrile	ND	0.461	0.461	ND	1.00	1.00	04/09/19	KCA	1
Benzene	0.491	0.313	0.313	1.57	1.00	1.00	04/09/19	KCA	1
Benzyl chloride	ND	0.193	0.193	ND	1.00	1.00	04/09/19	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	04/09/19	KCA	1
Bromoform	ND	0.097	0.097	ND	1.00	1.00	04/09/19	KCA	1
Bromomethane	ND	0.258	0.258	ND	1.00	1.00	04/09/19	KCA	1
Carbon Disulfide	ND	0.321	0.321	ND	1.00	1.00	04/09/19	KCA	1
Carbon Tetrachloride	0.083	0.032	0.032	0.52	0.20	0.20	04/09/19	KCA	1
Chlorobenzene	ND	0.217	0.217	ND	1.00	1.00	04/09/19	KCA	1
Chloroethane	ND	0.379	0.379	ND	1.00	1.00	04/09/19	KCA	1
Chloroform	ND	0.205	0.205	ND	1.00	1.00	04/09/19	KCA	1
Chloromethane	0.625	0.485	0.485	1.29	1.00	1.00	04/09/19	KCA	1
Cis-1,2-Dichloroethene	0.055	0.051	0.051	0.22	0.20	0.20	04/09/19	KCA	1
cis-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	04/09/19	KCA	1
Cyclohexane	0.632	0.291	0.291	2.17	1.00	1.00	04/09/19	KCA	1
Dibromochloromethane	ND	0.118	0.118	ND	1.00	1.00	04/09/19	KCA	1
Dichlorodifluoromethane	0.478	0.202	0.202	2.36	1.00	1.00	04/09/19	KCA	1
Ethanol	14.6	0.531	0.531	27.5	1.00	1.00	04/09/19	KCA	1
Ethyl acetate	ND	0.278	0.278	ND	1.00	1.00	04/09/19	KCA	1
Ethylbenzene	0.513	0.230	0.230	2.23	1.00	1.00	04/09/19	KCA	1
Heptane	0.824	0.244	0.244	3.37	1.00	1.00	04/09/19	KCA	1
Hexachlorobutadiene	ND	0.094	0.094	ND	1.00	1.00	04/09/19	KCA	1
Hexane	1.91	0.284	0.284	6.73	1.00	1.00	04/09/19	KCA	1
Isopropylalcohol	0.767	0.407	0.407	1.88	1.00	1.00	04/09/19	KCA	1
Isopropylbenzene	0.227	0.204	0.204	1.12	1.00	1.00	04/09/19	KCA	1
m,p-Xylene	2.06	0.230	0.230	8.94	1.00	1.00	04/09/19	KCA	1
Methyl Ethyl Ketone	1.02	0.339	0.339	3.01	1.00	1.00	04/09/19	KCA	1
Methyl tert-butyl ether(MTBE)	ND	0.278	0.278	ND	1.00	1.00	04/09/19	KCA	1
Methylene Chloride	ND	0.864	0.864	ND	3.00	3.00	04/09/19	KCA	1
n-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	04/09/19	KCA	1
o-Xylene	0.892	0.230	0.230	3.87	1.00	1.00	04/09/19	KCA	1
Propylene	ND	0.581	0.581	ND	1.00	1.00	04/09/19	KCA	1
sec-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	04/09/19	KCA	1
Styrene	ND	0.235	0.235	ND	1.00	1.00	04/09/19	KCA	1
Tetrachloroethene	2.49	0.037	0.037	16.9	0.25	0.25	04/09/19	KCA	1
Tetrahydrofuran	1.74	0.339	0.339	5.13	1.00	1.00	04/09/19	KCA	1
Toluene	2.46	0.266	0.266	9.26	1.00	1.00	04/09/19	KCA	1
Trans-1,2-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	04/09/19	KCA	1
trans-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	04/09/19	KCA	1
Trichloroethene	0.043	0.037	0.037	0.23	0.20	0.20	04/09/19	KCA	1
Trichlorofluoromethane	0.245	0.178	0.178	1.38	1.00	1.00	04/09/19	KCA	1
Trichlorotrifluoroethane	ND	0.131	0.131	ND	1.00	1.00	04/09/19	KCA	1
Vinyl Chloride	ND	0.078	0.078	ND	0.20	0.20	04/09/19	KCA	1
<u>QA/QC Surrogates/Internals</u>									
% Bromofluorobenzene	102	%	%	102	%	%	04/09/19	KCA	1
% IS-1,4-Difluorobenzene	89	%	%	89	%	%	04/09/19	KCA	1
% IS-Bromochloromethane	88	%	%	88	%	%	04/09/19	KCA	1
% IS-Chlorobenzene-d5	92	%	%	92	%	%	04/09/19	KCA	1

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
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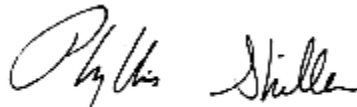
1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1

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

Comments:

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

April 30, 2019

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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



Analysis Report

April 30, 2019

FOR: Attn: Erica Johnston
 Walden Environmental Engineering PLLC
 16 Spring Street
 Oyster Bay, NY 11771

Sample Information

Matrix: AIR
 Location Code: WALDENE
 Rush Request: Standard
 P.O.#: IMPL0115.6
 Canister Id: 21370

Custody Information

Collected by: EMJ, JKB,
 Received by: MCT
 Analyzed by: see "By" below

Date: 04/04/19 12:23
 04/08/19 15:26

Laboratory Data

SDG ID: GCC90508
 Phoenix ID: CC90509

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

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	0.729	0.729	ND	5.00	5.00	04/10/19	KCA	5
1,1,1-Trichloroethane	ND	0.917	0.917	ND	5.00	5.00	04/10/19	KCA	5
1,1,2,2-Tetrachloroethane	ND	0.729	0.729	ND	5.00	5.00	04/10/19	KCA	5
1,1,2-Trichloroethane	ND	0.917	0.917	ND	5.00	5.00	04/10/19	KCA	5
1,1-Dichloroethane	ND	1.24	1.24	ND	5.02	5.02	04/10/19	KCA	5
1,1-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	04/10/19	KCA	5
1,2,4-Trichlorobenzene	ND	0.674	0.674	ND	5.00	5.00	04/10/19	KCA	5
1,2,4-Trimethylbenzene	ND	1.02	1.02	ND	5.01	5.01	04/10/19	KCA	5
1,2-Dibromoethane(EDB)	ND	0.651	0.651	ND	5.00	5.00	04/10/19	KCA	5
1,2-Dichlorobenzene	ND	0.832	0.832	ND	5.00	5.00	04/10/19	KCA	5
1,2-Dichloroethane	ND	1.24	1.24	ND	5.02	5.02	04/10/19	KCA	5
1,2-dichloropropane	ND	1.08	1.08	ND	4.99	4.99	04/10/19	KCA	5
1,2-Dichlorotetrafluoroethane	ND	0.716	0.716	ND	5.00	5.00	04/10/19	KCA	5
1,3,5-Trimethylbenzene	ND	1.02	1.02	ND	5.01	5.01	04/10/19	KCA	5
1,3-Butadiene	ND	2.26	2.26	ND	5.00	5.00	04/10/19	KCA	5
1,3-Dichlorobenzene	ND	0.832	0.832	ND	5.00	5.00	04/10/19	KCA	5
1,4-Dichlorobenzene	ND	0.832	0.832	ND	5.00	5.00	04/10/19	KCA	5
1,4-Dioxane	ND	1.39	1.39	ND	5.01	5.01	04/10/19	KCA	5
2-Hexanone(MBK)	ND	1.22	1.22	ND	4.99	4.99	04/10/19	KCA	5
4-Ethyltoluene	ND	1.02	1.02	ND	5.01	5.01	04/10/19	KCA	5
4-Isopropyltoluene	ND	0.911	0.911	ND	5.00	5.00	04/10/19	KCA	5
4-Methyl-2-pentanone(MIBK)	ND	1.22	1.22	ND	4.99	4.99	04/10/19	KCA	5
Acetone	ND	2.11	2.11	ND	5.01	5.01	04/10/19	KCA	5
Acrylonitrile	ND	2.31	2.31	ND	5.01	5.01	04/10/19	KCA	5
Benzene	ND	1.57	1.57	ND	5.01	5.01	04/10/19	KCA	5
Benzyl chloride	ND	0.966	0.966	ND	5.00	5.00	04/10/19	KCA	5

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	0.747	0.747	ND	5.00	5.00	04/10/19	KCA	5
Bromoform	ND	0.484	0.484	ND	5.00	5.00	04/10/19	KCA	5
Bromomethane	ND	1.29	1.29	ND	5.01	5.01	04/10/19	KCA	5
Carbon Disulfide	ND	1.61	1.61	ND	5.01	5.01	04/10/19	KCA	5
Carbon Tetrachloride	ND	0.159	0.159	ND	1.00	1.00	04/10/19	KCA	5
Chlorobenzene	ND	1.09	1.09	ND	5.01	5.01	04/10/19	KCA	5
Chloroethane	ND	1.90	1.90	ND	5.01	5.01	04/10/19	KCA	5
Chloroform	ND	1.02	1.02	ND	4.98	4.98	04/10/19	KCA	5
Chloromethane	ND	2.42	2.42	ND	4.99	4.99	04/10/19	KCA	5
Cis-1,2-Dichloroethene	165	3.79	3.79	654	15.0	15.0	04/10/19	KCA	75
cis-1,3-Dichloropropene	ND	1.10	1.10	ND	4.99	4.99	04/10/19	KCA	5
Cyclohexane	ND	1.45	1.45	ND	4.99	4.99	04/10/19	KCA	5
Dibromochloromethane	ND	0.587	0.587	ND	5.00	5.00	04/10/19	KCA	5
Dichlorodifluoromethane	1.74	1.01	1.01	8.60	4.99	4.99	04/10/19	KCA	5
Ethanol	ND	2.66	2.66	ND	5.01	5.01	04/10/19	KCA	5
Ethyl acetate	ND	1.39	1.39	ND	5.01	5.01	04/10/19	KCA	5
Ethylbenzene	ND	1.15	1.15	ND	4.99	4.99	04/10/19	KCA	5
Heptane	ND	1.22	1.22	ND	5.00	5.00	04/10/19	KCA	5
Hexachlorobutadiene	ND	0.469	0.469	ND	5.00	5.00	04/10/19	KCA	5
Hexane	ND	1.42	1.42	ND	5.00	5.00	04/10/19	KCA	5
Isopropylalcohol	ND	2.04	2.04	ND	5.01	5.01	04/10/19	KCA	5
Isopropylbenzene	ND	1.02	1.02	ND	5.01	5.01	04/10/19	KCA	5
m,p-Xylene	1.44	1.15	1.15	6.25	4.99	4.99	04/10/19	KCA	5
Methyl Ethyl Ketone	ND	1.70	1.70	ND	5.01	5.01	04/10/19	KCA	5
Methyl tert-butyl ether(MTBE)	ND	1.39	1.39	ND	5.01	5.01	04/10/19	KCA	5
Methylene Chloride	ND	4.32	4.32	ND	15.0	15.0	04/10/19	KCA	5
n-Butylbenzene	ND	0.911	0.911	ND	5.00	5.00	04/10/19	KCA	5
o-Xylene	ND	1.15	1.15	ND	4.99	4.99	04/10/19	KCA	5
Propylene	ND	2.91	2.91	ND	5.01	5.01	04/10/19	KCA	5
sec-Butylbenzene	ND	0.911	0.911	ND	5.00	5.00	04/10/19	KCA	5
Styrene	ND	1.17	1.17	ND	4.98	4.98	04/10/19	KCA	5
Tetrachloroethene	674	2.77	2.77	4570	18.8	18.8	04/10/19	KCA	75
Tetrahydrofuran	ND	1.70	1.70	ND	5.01	5.01	04/10/19	KCA	5
Toluene	1.48	1.33	1.33	5.57	5.01	5.01	04/10/19	KCA	5
Trans-1,2-Dichloroethene	10.1	1.26	1.26	40.0	4.99	4.99	04/10/19	KCA	5
trans-1,3-Dichloropropene	ND	1.10	1.10	ND	4.99	4.99	04/10/19	KCA	5
Trichloroethene	157	0.186	0.186	843	1.00	1.00	04/10/19	KCA	5
Trichlorofluoromethane	ND	0.891	0.891	ND	5.00	5.00	04/10/19	KCA	5
Trichlorotrifluoroethane	ND	0.653	0.653	ND	5.00	5.00	04/10/19	KCA	5
Vinyl Chloride	ND	0.391	0.391	ND	1.00	1.00	04/10/19	KCA	5
<u>QA/QC Surrogates/Internals</u>									
% Bromofluorobenzene (5x)	105	%	%	105	%	%	04/10/19	KCA	5
% IS-1,4-Difluorobenzene (5x)	83	%	%	83	%	%	04/10/19	KCA	5
% IS-Bromochloromethane (5x)	81	%	%	81	%	%	04/10/19	KCA	5
% IS-Chlorobenzene-d5 (5x)	85	%	%	85	%	%	04/10/19	KCA	5
% Bromofluorobenzene (75x)	99	%	%	99	%	%	04/10/19	KCA	75
% IS-1,4-Difluorobenzene (75x)	86	%	%	86	%	%	04/10/19	KCA	75
% IS-Bromochloromethane (75x)	85	%	%	85	%	%	04/10/19	KCA	75
% IS-Chlorobenzene-d5 (75x)	88	%	%	88	%	%	04/10/19	KCA	75

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
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1 = This parameter is not certified by the primary accrediting authority (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 L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1

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

Comments:

The canister was received under no vacuum, therefore sample results may not be representative.

An elevated reporting level was reported for TO15 due to a matrix interference of non target compounds.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director

April 30, 2019

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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



Analysis Report

April 30, 2019

FOR: Attn: Erica Johnston
 Walden Environmental Engineering PLLC
 16 Spring Street
 Oyster Bay, NY 11771

Sample Information

Matrix: AIR
 Location Code: WALDENE
 Rush Request: Standard
 P.O.#: IMPL0115.6
 Canister Id: 11291

Custody Information

Collected by: EMJ, JKB,
 Received by: MCT
 Analyzed by: see "By" below

Date

04/04/19 12:59
 04/08/19 15:26

Time

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

Laboratory Data

SDG ID: GCC90508
 Phoenix ID: CC90510

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	04/10/19	KCA	1
1,1,1-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	04/10/19	KCA	1
1,1,2,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	04/10/19	KCA	1
1,1,2-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	04/10/19	KCA	1
1,1-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	04/10/19	KCA	1
1,1-Dichloroethene	ND	0.051	0.051	ND	0.20	0.20	04/10/19	KCA	1
1,2,4-Trichlorobenzene	ND	0.135	0.135	ND	1.00	1.00	04/10/19	KCA	1
1,2,4-Trimethylbenzene	0.403	0.204	0.204	1.98	1.00	1.00	04/10/19	KCA	1
1,2-Dibromoethane(EDB)	ND	0.130	0.130	ND	1.00	1.00	04/10/19	KCA	1
1,2-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	04/10/19	KCA	1
1,2-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	04/10/19	KCA	1
1,2-dichloropropane	ND	0.217	0.217	ND	1.00	1.00	04/10/19	KCA	1
1,2-Dichlorotetrafluoroethane	ND	0.143	0.143	ND	1.00	1.00	04/10/19	KCA	1
1,3,5-Trimethylbenzene	ND	0.204	0.204	ND	1.00	1.00	04/10/19	KCA	1
1,3-Butadiene	ND	0.452	0.452	ND	1.00	1.00	04/10/19	KCA	1
1,3-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	04/10/19	KCA	1
1,4-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	04/10/19	KCA	1
1,4-Dioxane	ND	0.278	0.278	ND	1.00	1.00	04/10/19	KCA	1
2-Hexanone(MBK)	ND	0.244	0.244	ND	1.00	1.00	04/10/19	KCA	1
4-Ethyltoluene	ND	0.204	0.204	ND	1.00	1.00	04/10/19	KCA	1
4-Isopropyltoluene	ND	0.182	0.182	ND	1.00	1.00	04/10/19	KCA	1
4-Methyl-2-pentanone(MIBK)	ND	0.244	0.244	ND	1.00	1.00	04/10/19	KCA	1
Acetone	2.54	0.421	0.421	6.03	1.00	1.00	04/10/19	KCA	1
Acrylonitrile	ND	0.461	0.461	ND	1.00	1.00	04/10/19	KCA	1
Benzene	ND	0.313	0.313	ND	1.00	1.00	04/10/19	KCA	1
Benzyl chloride	ND	0.193	0.193	ND	1.00	1.00	04/10/19	KCA	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	04/10/19	KCA	1
Bromoform	ND	0.097	0.097	ND	1.00	1.00	04/10/19	KCA	1
Bromomethane	ND	0.258	0.258	ND	1.00	1.00	04/10/19	KCA	1
Carbon Disulfide	ND	0.321	0.321	ND	1.00	1.00	04/10/19	KCA	1
Carbon Tetrachloride	ND	0.032	0.032	ND	0.20	0.20	04/10/19	KCA	1
Chlorobenzene	ND	0.217	0.217	ND	1.00	1.00	04/10/19	KCA	1
Chloroethane	ND	0.379	0.379	ND	1.00	1.00	04/10/19	KCA	1
Chloroform	0.302	0.205	0.205	1.47	1.00	1.00	04/10/19	KCA	1
Chloromethane	ND	0.485	0.485	ND	1.00	1.00	04/10/19	KCA	1
Cis-1,2-Dichloroethene	ND	0.051	0.051	ND	0.20	0.20	04/10/19	KCA	1
cis-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	04/10/19	KCA	1
Cyclohexane	ND	0.291	0.291	ND	1.00	1.00	04/10/19	KCA	1
Dibromochloromethane	ND	0.118	0.118	ND	1.00	1.00	04/10/19	KCA	1
Dichlorodifluoromethane	0.473	0.202	0.202	2.34	1.00	1.00	04/10/19	KCA	1
Ethanol	2.12	0.531	0.531	3.99	1.00	1.00	04/10/19	KCA	1
Ethyl acetate	ND	0.278	0.278	ND	1.00	1.00	04/10/19	KCA	1
Ethylbenzene	0.451	0.230	0.230	1.96	1.00	1.00	04/10/19	KCA	1
Heptane	0.288	0.244	0.244	1.18	1.00	1.00	04/10/19	KCA	1
Hexachlorobutadiene	ND	0.094	0.094	ND	1.00	1.00	04/10/19	KCA	1
Hexane	ND	0.284	0.284	ND	1.00	1.00	04/10/19	KCA	1
Isopropylalcohol	ND	0.407	0.407	ND	1.00	1.00	04/10/19	KCA	1
Isopropylbenzene	ND	0.204	0.204	ND	1.00	1.00	04/10/19	KCA	1
m,p-Xylene	1.90	0.230	0.230	8.25	1.00	1.00	04/10/19	KCA	1
Methyl Ethyl Ketone	0.395	0.339	0.339	1.16	1.00	1.00	04/10/19	KCA	1
Methyl tert-butyl ether(MTBE)	ND	0.278	0.278	ND	1.00	1.00	04/10/19	KCA	1
Methylene Chloride	ND	0.864	0.864	ND	3.00	3.00	04/10/19	KCA	1
n-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	04/10/19	KCA	1
o-Xylene	0.440	0.230	0.230	1.91	1.00	1.00	04/10/19	KCA	1
Propylene	ND	0.581	0.581	ND	1.00	1.00	04/10/19	KCA	1
sec-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	04/10/19	KCA	1
Styrene	0.441	0.235	0.235	1.88	1.00	1.00	04/10/19	KCA	1
Tetrachloroethene	20.6	0.037	0.037	140	0.25	0.25	04/10/19	KCA	1
Tetrahydrofuran	ND	0.339	0.339	ND	1.00	1.00	04/10/19	KCA	1
Toluene	2.75	0.266	0.266	10.4	1.00	1.00	04/10/19	KCA	1
Trans-1,2-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	04/10/19	KCA	1
trans-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	04/10/19	KCA	1
Trichloroethene	ND	0.037	0.037	ND	0.20	0.20	04/10/19	KCA	1
Trichlorofluoromethane	0.266	0.178	0.178	1.49	1.00	1.00	04/10/19	KCA	1
Trichlorotrifluoroethane	ND	0.131	0.131	ND	1.00	1.00	04/10/19	KCA	1
Vinyl Chloride	ND	0.078	0.078	ND	0.20	0.20	04/10/19	KCA	1
<u>QA/QC Surrogates/Internals</u>									
% Bromofluorobenzene	101	%	%	101	%	%	04/10/19	KCA	1
% IS-1,4-Difluorobenzene	78	%	%	78	%	%	04/10/19	KCA	1
% IS-Bromochloromethane	74	%	%	74	%	%	04/10/19	KCA	1
% IS-Chlorobenzene-d5	87	%	%	87	%	%	04/10/19	KCA	1

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
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1 = This parameter is not certified by the primary accrediting authority (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 L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1

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

Comments:

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director

April 30, 2019

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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



Analysis Report

April 30, 2019

FOR: Attn: Erica Johnston
 Walden Environmental Engineering PLLC
 16 Spring Street
 Oyster Bay, NY 11771

Sample Information

Matrix: AIR
 Location Code: WALDENE
 Rush Request: Standard
 P.O.#: IMPL0115.6
 Canister Id: 230

Custody Information

Collected by: EMJ, JKB,
 Received by: MCT
 Analyzed by: see "By" below

Date Time
 04/04/19 14:19
 04/08/19 15:26

Laboratory Data

SDG ID: GCC90508
 Phoenix ID: CC90511

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
Volatiles (TO15)									
1,1,1,2-Tetrachloroethane	ND	0.729	0.729	ND	5.00	5.00	04/10/19	KCA	5
1,1,1-Trichloroethane	ND	0.917	0.917	ND	5.00	5.00	04/10/19	KCA	5
1,1,2,2-Tetrachloroethane	ND	0.729	0.729	ND	5.00	5.00	04/10/19	KCA	5
1,1,2-Trichloroethane	ND	0.917	0.917	ND	5.00	5.00	04/10/19	KCA	5
1,1-Dichloroethane	ND	1.24	1.24	ND	5.02	5.02	04/10/19	KCA	5
1,1-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	04/10/19	KCA	5
1,2,4-Trichlorobenzene	ND	0.674	0.674	ND	5.00	5.00	04/10/19	KCA	5
1,2,4-Trimethylbenzene	ND	1.02	1.02	ND	5.01	5.01	04/10/19	KCA	5
1,2-Dibromoethane(EDB)	ND	0.651	0.651	ND	5.00	5.00	04/10/19	KCA	5
1,2-Dichlorobenzene	ND	0.832	0.832	ND	5.00	5.00	04/10/19	KCA	5
1,2-Dichloroethane	ND	1.24	1.24	ND	5.02	5.02	04/10/19	KCA	5
1,2-dichloropropane	ND	1.08	1.08	ND	4.99	4.99	04/10/19	KCA	5
1,2-Dichlorotetrafluoroethane	ND	0.716	0.716	ND	5.00	5.00	04/10/19	KCA	5
1,3,5-Trimethylbenzene	ND	1.02	1.02	ND	5.01	5.01	04/10/19	KCA	5
1,3-Butadiene	ND	2.26	2.26	ND	5.00	5.00	04/10/19	KCA	5
1,3-Dichlorobenzene	ND	0.832	0.832	ND	5.00	5.00	04/10/19	KCA	5
1,4-Dichlorobenzene	ND	0.832	0.832	ND	5.00	5.00	04/10/19	KCA	5
1,4-Dioxane	ND	1.39	1.39	ND	5.01	5.01	04/10/19	KCA	5
2-Hexanone(MBK)	ND	1.22	1.22	ND	4.99	4.99	04/10/19	KCA	5
4-Ethyltoluene	ND	1.02	1.02	ND	5.01	5.01	04/10/19	KCA	5
4-Isopropyltoluene	ND	0.911	0.911	ND	5.00	5.00	04/10/19	KCA	5
4-Methyl-2-pentanone(MIBK)	ND	1.22	1.22	ND	4.99	4.99	04/10/19	KCA	5
Acetone	2.39	2.11	2.11	5.67	5.01	5.01	04/10/19	KCA	5
Acrylonitrile	ND	2.31	2.31	ND	5.01	5.01	04/10/19	KCA	5
Benzene	ND	1.57	1.57	ND	5.01	5.01	04/10/19	KCA	5
Benzyl chloride	ND	0.966	0.966	ND	5.00	5.00	04/10/19	KCA	5

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	0.747	0.747	ND	5.00	5.00	04/10/19	KCA	5
Bromoform	ND	0.484	0.484	ND	5.00	5.00	04/10/19	KCA	5
Bromomethane	ND	1.29	1.29	ND	5.01	5.01	04/10/19	KCA	5
Carbon Disulfide	ND	1.61	1.61	ND	5.01	5.01	04/10/19	KCA	5
Carbon Tetrachloride	ND	0.159	0.159	ND	1.00	1.00	04/10/19	KCA	5
Chlorobenzene	ND	1.09	1.09	ND	5.01	5.01	04/10/19	KCA	5
Chloroethane	ND	1.90	1.90	ND	5.01	5.01	04/10/19	KCA	5
Chloroform	2.11	1.02	1.02	10.3	4.98	4.98	04/10/19	KCA	5
Chloromethane	ND	2.42	2.42	ND	4.99	4.99	04/10/19	KCA	5
Cis-1,2-Dichloroethene	391	3.79	3.79	1550	15.0	15.0	04/10/19	KCA	75
cis-1,3-Dichloropropene	ND	1.10	1.10	ND	4.99	4.99	04/10/19	KCA	5
Cyclohexane	ND	1.45	1.45	ND	4.99	4.99	04/10/19	KCA	5
Dibromochloromethane	ND	0.587	0.587	ND	5.00	5.00	04/10/19	KCA	5
Dichlorodifluoromethane	ND	1.01	1.01	ND	4.99	4.99	04/10/19	KCA	5
Ethanol	ND	2.66	2.66	ND	5.01	5.01	04/10/19	KCA	5
Ethyl acetate	ND	1.39	1.39	ND	5.01	5.01	04/10/19	KCA	5
Ethylbenzene	ND	1.15	1.15	ND	4.99	4.99	04/10/19	KCA	5
Heptane	ND	1.22	1.22	ND	5.00	5.00	04/10/19	KCA	5
Hexachlorobutadiene	ND	0.469	0.469	ND	5.00	5.00	04/10/19	KCA	5
Hexane	ND	1.42	1.42	ND	5.00	5.00	04/10/19	KCA	5
Isopropylalcohol	ND	2.04	2.04	ND	5.01	5.01	04/10/19	KCA	5
Isopropylbenzene	ND	1.02	1.02	ND	5.01	5.01	04/10/19	KCA	5
m,p-Xylene	1.75	1.15	1.15	7.59	4.99	4.99	04/10/19	KCA	5
Methyl Ethyl Ketone	ND	1.70	1.70	ND	5.01	5.01	04/10/19	KCA	5
Methyl tert-butyl ether(MTBE)	ND	1.39	1.39	ND	5.01	5.01	04/10/19	KCA	5
Methylene Chloride	ND	4.32	4.32	ND	15.0	15.0	04/10/19	KCA	5
n-Butylbenzene	ND	0.911	0.911	ND	5.00	5.00	04/10/19	KCA	5
o-Xylene	ND	1.15	1.15	ND	4.99	4.99	04/10/19	KCA	5
Propylene	ND	2.91	2.91	ND	5.01	5.01	04/10/19	KCA	5
sec-Butylbenzene	ND	0.911	0.911	ND	5.00	5.00	04/10/19	KCA	5
Styrene	ND	1.17	1.17	ND	4.98	4.98	04/10/19	KCA	5
Tetrachloroethene	2150	2.77	2.77	14600	18.8	18.8	04/10/19	KCA	75
Tetrahydrofuran	ND	1.70	1.70	ND	5.01	5.01	04/10/19	KCA	5
Toluene	2.76	1.33	1.33	10.4	5.01	5.01	04/10/19	KCA	5
Trans-1,2-Dichloroethene	20.2	1.26	1.26	80.0	4.99	4.99	04/10/19	KCA	5
trans-1,3-Dichloropropene	ND	1.10	1.10	ND	4.99	4.99	04/10/19	KCA	5
Trichloroethene	217	2.79	2.79	1170	15.0	15.0	04/10/19	KCA	75
Trichlorofluoromethane	ND	0.891	0.891	ND	5.00	5.00	04/10/19	KCA	5
Trichlorotrifluoroethane	ND	0.653	0.653	ND	5.00	5.00	04/10/19	KCA	5
Vinyl Chloride	0.490	0.391	0.391	1.25	1.00	1.00	04/10/19	KCA	5
<u>QA/QC Surrogates/Internals</u>									
% Bromofluorobenzene (5x)	106	%	%	106	%	%	04/10/19	KCA	5
% IS-1,4-Difluorobenzene (5x)	82	%	%	82	%	%	04/10/19	KCA	5
% IS-Bromochloromethane (5x)	77	%	%	77	%	%	04/10/19	KCA	5
% IS-Chlorobenzene-d5 (5x)	84	%	%	84	%	%	04/10/19	KCA	5
% Bromofluorobenzene (75x)	101	%	%	101	%	%	04/10/19	KCA	75
% IS-1,4-Difluorobenzene (75x)	83	%	%	83	%	%	04/10/19	KCA	75
% IS-Bromochloromethane (75x)	85	%	%	85	%	%	04/10/19	KCA	75
% IS-Chlorobenzene-d5 (75x)	87	%	%	87	%	%	04/10/19	KCA	75

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
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1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

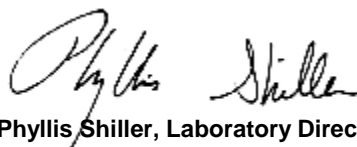
RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1

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:

An elevated reporting level was reported for TO15 due to a matrix interference of non target compounds.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

April 30, 2019

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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



Analysis Report

April 30, 2019

FOR: Attn: Erica Johnston
 Walden Environmental Engineering PLLC
 16 Spring Street
 Oyster Bay, NY 11771

Sample Information

Matrix: AIR
 Location Code: WALDENE
 Rush Request: Standard
 P.O.#: IMPL0115.6
 Canister Id: 215

Custody Information

Collected by: EMJ, JKB,
 Received by: MCT
 Analyzed by: see "By" below

Date Time
 04/04/19 12:32
 04/08/19 15:26

Laboratory Data

SDG ID: GCC90508
 Phoenix ID: CC90512

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

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	0.729	0.729	ND	5.00	5.00	04/10/19	KCA	5
1,1,1-Trichloroethane	ND	0.917	0.917	ND	5.00	5.00	04/10/19	KCA	5
1,1,2,2-Tetrachloroethane	ND	0.729	0.729	ND	5.00	5.00	04/10/19	KCA	5
1,1,2-Trichloroethane	ND	0.917	0.917	ND	5.00	5.00	04/10/19	KCA	5
1,1-Dichloroethane	ND	1.24	1.24	ND	5.02	5.02	04/10/19	KCA	5
1,1-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	04/10/19	KCA	5
1,2,4-Trichlorobenzene	ND	0.674	0.674	ND	5.00	5.00	04/10/19	KCA	5
1,2,4-Trimethylbenzene	ND	1.02	1.02	ND	5.01	5.01	04/10/19	KCA	5
1,2-Dibromoethane(EDB)	ND	0.651	0.651	ND	5.00	5.00	04/10/19	KCA	5
1,2-Dichlorobenzene	ND	0.832	0.832	ND	5.00	5.00	04/10/19	KCA	5
1,2-Dichloroethane	ND	1.24	1.24	ND	5.02	5.02	04/10/19	KCA	5
1,2-dichloropropane	ND	1.08	1.08	ND	4.99	4.99	04/10/19	KCA	5
1,2-Dichlorotetrafluoroethane	ND	0.716	0.716	ND	5.00	5.00	04/10/19	KCA	5
1,3,5-Trimethylbenzene	ND	1.02	1.02	ND	5.01	5.01	04/10/19	KCA	5
1,3-Butadiene	ND	2.26	2.26	ND	5.00	5.00	04/10/19	KCA	5
1,3-Dichlorobenzene	ND	0.832	0.832	ND	5.00	5.00	04/10/19	KCA	5
1,4-Dichlorobenzene	ND	0.832	0.832	ND	5.00	5.00	04/10/19	KCA	5
1,4-Dioxane	ND	1.39	1.39	ND	5.01	5.01	04/10/19	KCA	5
2-Hexanone(MBK)	ND	1.22	1.22	ND	4.99	4.99	04/10/19	KCA	5
4-Ethyltoluene	ND	1.02	1.02	ND	5.01	5.01	04/10/19	KCA	5
4-Isopropyltoluene	ND	0.911	0.911	ND	5.00	5.00	04/10/19	KCA	5
4-Methyl-2-pentanone(MIBK)	ND	1.22	1.22	ND	4.99	4.99	04/10/19	KCA	5
Acetone	3.59	2.11	2.11	8.52	5.01	5.01	04/10/19	KCA	5
Acrylonitrile	ND	2.31	2.31	ND	5.01	5.01	04/10/19	KCA	5
Benzene	ND	1.57	1.57	ND	5.01	5.01	04/10/19	KCA	5
Benzyl chloride	ND	0.966	0.966	ND	5.00	5.00	04/10/19	KCA	5

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Bromodichloromethane	ND	0.747	0.747	ND	5.00	5.00	04/10/19	KCA	5
Bromoform	ND	0.484	0.484	ND	5.00	5.00	04/10/19	KCA	5
Bromomethane	ND	1.29	1.29	ND	5.01	5.01	04/10/19	KCA	5
Carbon Disulfide	ND	1.61	1.61	ND	5.01	5.01	04/10/19	KCA	5
Carbon Tetrachloride	ND	0.159	0.159	ND	1.00	1.00	04/10/19	KCA	5
Chlorobenzene	ND	1.09	1.09	ND	5.01	5.01	04/10/19	KCA	5
Chloroethane	ND	1.90	1.90	ND	5.01	5.01	04/10/19	KCA	5
Chloroform	1.59	1.02	1.02	7.76	4.98	4.98	04/10/19	KCA	5
Chloromethane	ND	2.42	2.42	ND	4.99	4.99	04/10/19	KCA	5
Cis-1,2-Dichloroethene	84.8	0.252	0.252	336	1.00	1.00	04/10/19	KCA	5
cis-1,3-Dichloropropene	ND	1.10	1.10	ND	4.99	4.99	04/10/19	KCA	5
Cyclohexane	ND	1.45	1.45	ND	4.99	4.99	04/10/19	KCA	5
Dibromochloromethane	ND	0.587	0.587	ND	5.00	5.00	04/10/19	KCA	5
Dichlorodifluoromethane	ND	1.01	1.01	ND	4.99	4.99	04/10/19	KCA	5
Ethanol	ND	2.66	2.66	ND	5.01	5.01	04/10/19	KCA	5
Ethyl acetate	ND	1.39	1.39	ND	5.01	5.01	04/10/19	KCA	5
Ethylbenzene	ND	1.15	1.15	ND	4.99	4.99	04/10/19	KCA	5
Heptane	ND	1.22	1.22	ND	5.00	5.00	04/10/19	KCA	5
Hexachlorobutadiene	ND	0.469	0.469	ND	5.00	5.00	04/10/19	KCA	5
Hexane	ND	1.42	1.42	ND	5.00	5.00	04/10/19	KCA	5
Isopropylalcohol	ND	2.04	2.04	ND	5.01	5.01	04/10/19	KCA	5
Isopropylbenzene	ND	1.02	1.02	ND	5.01	5.01	04/10/19	KCA	5
m,p-Xylene	1.80	1.15	1.15	7.81	4.99	4.99	04/10/19	KCA	5
Methyl Ethyl Ketone	ND	1.70	1.70	ND	5.01	5.01	04/10/19	KCA	5
Methyl tert-butyl ether(MTBE)	ND	1.39	1.39	ND	5.01	5.01	04/10/19	KCA	5
Methylene Chloride	ND	4.32	4.32	ND	15.0	15.0	04/10/19	KCA	5
n-Butylbenzene	ND	0.911	0.911	ND	5.00	5.00	04/10/19	KCA	5
o-Xylene	ND	1.15	1.15	ND	4.99	4.99	04/10/19	KCA	5
Propylene	ND	2.91	2.91	ND	5.01	5.01	04/10/19	KCA	5
sec-Butylbenzene	ND	0.911	0.911	ND	5.00	5.00	04/10/19	KCA	5
Styrene	ND	1.17	1.17	ND	4.98	4.98	04/10/19	KCA	5
Tetrachloroethene	1940	2.77	2.77	13100	18.8	18.8	04/10/19	KCA	75
Tetrahydrofuran	ND	1.70	1.70	ND	5.01	5.01	04/10/19	KCA	5
Toluene	2.83	1.33	1.33	10.7	5.01	5.01	04/10/19	KCA	5
Trans-1,2-Dichloroethene	4.16	1.26	1.26	16.5	4.99	4.99	04/10/19	KCA	5
trans-1,3-Dichloropropene	ND	1.10	1.10	ND	4.99	4.99	04/10/19	KCA	5
Trichloroethene	49.4	0.186	0.186	265	1.00	1.00	04/10/19	KCA	5
Trichlorofluoromethane	ND	0.891	0.891	ND	5.00	5.00	04/10/19	KCA	5
Trichlorotrifluoroethane	ND	0.653	0.653	ND	5.00	5.00	04/10/19	KCA	5
Vinyl Chloride	ND	0.391	0.391	ND	1.00	1.00	04/10/19	KCA	5
<u>QA/QC Surrogates/Internals</u>									
% Bromofluorobenzene (5x)	102	%	%	102	%	%	04/10/19	KCA	5
% IS-1,4-Difluorobenzene (5x)	81	%	%	81	%	%	04/10/19	KCA	5
% IS-Bromochloromethane (5x)	79	%	%	79	%	%	04/10/19	KCA	5
% IS-Chlorobenzene-d5 (5x)	84	%	%	84	%	%	04/10/19	KCA	5
% Bromofluorobenzene (75x)	100	%	%	100	%	%	04/10/19	KCA	75
% IS-1,4-Difluorobenzene (75x)	79	%	%	79	%	%	04/10/19	KCA	75
% IS-Bromochloromethane (75x)	78	%	%	78	%	%	04/10/19	KCA	75
% IS-Chlorobenzene-d5 (75x)	83	%	%	83	%	%	04/10/19	KCA	75

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
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1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

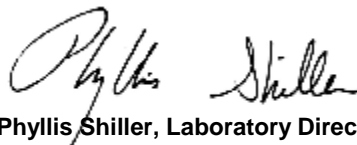
RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1

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:

An elevated reporting level was reported for TO15 due to a matrix interference of non target compounds.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

April 30, 2019

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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



Analysis Report

April 30, 2019

FOR: Attn: Erica Johnston
 Walden Environmental Engineering PLLC
 16 Spring Street
 Oyster Bay, NY 11771

Sample Information

Matrix: AIR
 Location Code: WALDENE
 Rush Request: Standard
 P.O.#: IMPL0115.6
 Canister Id: 23326

Custody Information

Collected by: EMJ, JKB,
 Received by: MPT
 Analyzed by: see "By" below

Date Time
 04/04/19 12:58
 04/08/19 15:26

Laboratory Data

SDG ID: GCC90508
 Phoenix ID: CC90513

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	04/09/19	KCA	1	1
1,1,1-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	04/09/19	KCA	1	
1,1,2,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	04/09/19	KCA	1	
1,1,2-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	04/09/19	KCA	1	
1,1-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	04/09/19	KCA	1	
1,1-Dichloroethene	ND	0.051	0.051	ND	0.20	0.20	04/09/19	KCA	1	
1,2,4-Trichlorobenzene	ND	0.135	0.135	ND	1.00	1.00	04/09/19	KCA	1	
1,2,4-Trimethylbenzene	0.216	0.204	0.204	1.06	1.00	1.00	04/09/19	KCA	1	
1,2-Dibromoethane(EDB)	ND	0.130	0.130	ND	1.00	1.00	04/09/19	KCA	1	
1,2-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	04/09/19	KCA	1	
1,2-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	04/09/19	KCA	1	
1,2-dichloropropane	ND	0.217	0.217	ND	1.00	1.00	04/09/19	KCA	1	
1,2-Dichlorotetrafluoroethane	ND	0.143	0.143	ND	1.00	1.00	04/09/19	KCA	1	
1,3,5-Trimethylbenzene	ND	0.204	0.204	ND	1.00	1.00	04/09/19	KCA	1	
1,3-Butadiene	ND	0.452	0.452	ND	1.00	1.00	04/09/19	KCA	1	
1,3-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	04/09/19	KCA	1	
1,4-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	04/09/19	KCA	1	
1,4-Dioxane	ND	0.278	0.278	ND	1.00	1.00	04/09/19	KCA	1	
2-Hexanone(MBK)	ND	0.244	0.244	ND	1.00	1.00	04/09/19	KCA	1	1
4-Ethyltoluene	ND	0.204	0.204	ND	1.00	1.00	04/09/19	KCA	1	1
4-Isopropyltoluene	ND	0.182	0.182	ND	1.00	1.00	04/09/19	KCA	1	1
4-Methyl-2-pentanone(MIBK)	0.302	0.244	0.244	1.24	1.00	1.00	04/09/19	KCA	1	
Acetone	6.49	0.421	0.421	15.4	1.00	1.00	04/09/19	KCA	1	
Acrylonitrile	ND	0.461	0.461	ND	1.00	1.00	04/09/19	KCA	1	
Benzene	0.369	0.313	0.313	1.18	1.00	1.00	04/09/19	KCA	1	
Benzyl chloride	ND	0.193	0.193	ND	1.00	1.00	04/09/19	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	04/09/19	KCA	1
Bromoform	ND	0.097	0.097	ND	1.00	1.00	04/09/19	KCA	1
Bromomethane	ND	0.258	0.258	ND	1.00	1.00	04/09/19	KCA	1
Carbon Disulfide	ND	0.321	0.321	ND	1.00	1.00	04/09/19	KCA	1
Carbon Tetrachloride	0.087	0.032	0.032	0.55	0.20	0.20	04/09/19	KCA	1
Chlorobenzene	ND	0.217	0.217	ND	1.00	1.00	04/09/19	KCA	1
Chloroethane	ND	0.379	0.379	ND	1.00	1.00	04/09/19	KCA	1
Chloroform	ND	0.205	0.205	ND	1.00	1.00	04/09/19	KCA	1
Chloromethane	0.554	0.485	0.485	1.14	1.00	1.00	04/09/19	KCA	1
Cis-1,2-Dichloroethene	ND	0.051	0.051	ND	0.20	0.20	04/09/19	KCA	1
cis-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	04/09/19	KCA	1
Cyclohexane	ND	0.291	0.291	ND	1.00	1.00	04/09/19	KCA	1
Dibromochloromethane	ND	0.118	0.118	ND	1.00	1.00	04/09/19	KCA	1
Dichlorodifluoromethane	0.481	0.202	0.202	2.38	1.00	1.00	04/09/19	KCA	1
Ethanol	8.06	0.531	0.531	15.2	1.00	1.00	04/09/19	KCA	1
Ethyl acetate	ND	0.278	0.278	ND	1.00	1.00	04/09/19	KCA	1
Ethylbenzene	ND	0.230	0.230	ND	1.00	1.00	04/09/19	KCA	1
Heptane	ND	0.244	0.244	ND	1.00	1.00	04/09/19	KCA	1
Hexachlorobutadiene	ND	0.094	0.094	ND	1.00	1.00	04/09/19	KCA	1
Hexane	0.477	0.284	0.284	1.68	1.00	1.00	04/09/19	KCA	1
Isopropylalcohol	ND	0.407	0.407	ND	1.00	1.00	04/09/19	KCA	1
Isopropylbenzene	ND	0.204	0.204	ND	1.00	1.00	04/09/19	KCA	1
m,p-Xylene	0.847	0.230	0.230	3.68	1.00	1.00	04/09/19	KCA	1
Methyl Ethyl Ketone	ND	0.339	0.339	ND	1.00	1.00	04/09/19	KCA	1
Methyl tert-butyl ether(MTBE)	ND	0.278	0.278	ND	1.00	1.00	04/09/19	KCA	1
Methylene Chloride	ND	0.864	0.864	ND	3.00	3.00	04/09/19	KCA	1
n-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	04/09/19	KCA	1
o-Xylene	0.245	0.230	0.230	1.06	1.00	1.00	04/09/19	KCA	1
Propylene	ND	0.581	0.581	ND	1.00	1.00	04/09/19	KCA	1
sec-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	04/09/19	KCA	1
Styrene	ND	0.235	0.235	ND	1.00	1.00	04/09/19	KCA	1
Tetrachloroethene	0.085	0.037	0.037	0.58	0.25	0.25	04/09/19	KCA	1
Tetrahydrofuran	ND	0.339	0.339	ND	1.00	1.00	04/09/19	KCA	1
Toluene	1.87	0.266	0.266	7.04	1.00	1.00	04/09/19	KCA	1
Trans-1,2-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	04/09/19	KCA	1
trans-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	04/09/19	KCA	1
Trichloroethene	ND	0.037	0.037	ND	0.20	0.20	04/09/19	KCA	1
Trichlorofluoromethane	0.251	0.178	0.178	1.41	1.00	1.00	04/09/19	KCA	1
Trichlorotrifluoroethane	ND	0.131	0.131	ND	1.00	1.00	04/09/19	KCA	1
Vinyl Chloride	ND	0.078	0.078	ND	0.20	0.20	04/09/19	KCA	1
<u>QA/QC Surrogates/Internals</u>									
% Bromofluorobenzene	103	%	%	103	%	%	04/09/19	KCA	1
% IS-1,4-Difluorobenzene	91	%	%	91	%	%	04/09/19	KCA	1
% IS-Bromochloromethane	90	%	%	90	%	%	04/09/19	KCA	1
% IS-Chlorobenzene-d5	91	%	%	91	%	%	04/09/19	KCA	1

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
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1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

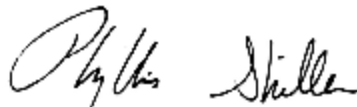
RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1

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:

The canister was received under no vacuum, therefore sample results may not be representative.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

April 30, 2019

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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



Analysis Report

April 30, 2019

FOR: Attn: Erica Johnston
 Walden Environmental Engineering PLLC
 16 Spring Street
 Oyster Bay, NY 11771

Sample Information

Matrix: AIR
 Location Code: WALDENE
 Rush Request: Standard
 P.O.#: IMPL0115.6
 Canister Id: 21365

Custody Information

Collected by: EMJ, JKB,
 Received by: MCT
 Analyzed by: see "By" below

Date

04/04/19 12:33
 04/08/19 15:26

Time

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

Laboratory Data

SDG ID: GCC90508
 Phoenix ID: CC90514

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	04/09/19	KCA	1
1,1,1-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	04/09/19	KCA	1
1,1,2,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	04/09/19	KCA	1
1,1,2-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	04/09/19	KCA	1
1,1-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	04/09/19	KCA	1
1,1-Dichloroethene	ND	0.051	0.051	ND	0.20	0.20	04/09/19	KCA	1
1,2,4-Trichlorobenzene	ND	0.135	0.135	ND	1.00	1.00	04/09/19	KCA	1
1,2,4-Trimethylbenzene	ND	0.204	0.204	ND	1.00	1.00	04/09/19	KCA	1
1,2-Dibromoethane(EDB)	ND	0.130	0.130	ND	1.00	1.00	04/09/19	KCA	1
1,2-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	04/09/19	KCA	1
1,2-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	04/09/19	KCA	1
1,2-dichloropropane	ND	0.217	0.217	ND	1.00	1.00	04/09/19	KCA	1
1,2-Dichlorotetrafluoroethane	ND	0.143	0.143	ND	1.00	1.00	04/09/19	KCA	1
1,3,5-Trimethylbenzene	ND	0.204	0.204	ND	1.00	1.00	04/09/19	KCA	1
1,3-Butadiene	ND	0.452	0.452	ND	1.00	1.00	04/09/19	KCA	1
1,3-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	04/09/19	KCA	1
1,4-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	04/09/19	KCA	1
1,4-Dioxane	ND	0.278	0.278	ND	1.00	1.00	04/09/19	KCA	1
2-Hexanone(MBK)	ND	0.244	0.244	ND	1.00	1.00	04/09/19	KCA	1
4-Ethyltoluene	ND	0.204	0.204	ND	1.00	1.00	04/09/19	KCA	1
4-Isopropyltoluene	ND	0.182	0.182	ND	1.00	1.00	04/09/19	KCA	1
4-Methyl-2-pentanone(MIBK)	ND	0.244	0.244	ND	1.00	1.00	04/09/19	KCA	1
Acetone	2.34	0.421	0.421	5.56	1.00	1.00	04/09/19	KCA	1
Acrylonitrile	ND	0.461	0.461	ND	1.00	1.00	04/09/19	KCA	1
Benzene	ND	0.313	0.313	ND	1.00	1.00	04/09/19	KCA	1
Benzyl chloride	ND	0.193	0.193	ND	1.00	1.00	04/09/19	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	04/09/19	KCA	1
Bromoform	ND	0.097	0.097	ND	1.00	1.00	04/09/19	KCA	1
Bromomethane	ND	0.258	0.258	ND	1.00	1.00	04/09/19	KCA	1
Carbon Disulfide	ND	0.321	0.321	ND	1.00	1.00	04/09/19	KCA	1
Carbon Tetrachloride	0.084	0.032	0.032	0.53	0.20	0.20	04/09/19	KCA	1
Chlorobenzene	ND	0.217	0.217	ND	1.00	1.00	04/09/19	KCA	1
Chloroethane	ND	0.379	0.379	ND	1.00	1.00	04/09/19	KCA	1
Chloroform	ND	0.205	0.205	ND	1.00	1.00	04/09/19	KCA	1
Chloromethane	0.607	0.485	0.485	1.25	1.00	1.00	04/09/19	KCA	1
Cis-1,2-Dichloroethene	ND	0.051	0.051	ND	0.20	0.20	04/09/19	KCA	1
cis-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	04/09/19	KCA	1
Cyclohexane	ND	0.291	0.291	ND	1.00	1.00	04/09/19	KCA	1
Dibromochloromethane	ND	0.118	0.118	ND	1.00	1.00	04/09/19	KCA	1
Dichlorodifluoromethane	0.482	0.202	0.202	2.38	1.00	1.00	04/09/19	KCA	1
Ethanol	5.57	0.531	0.531	10.5	1.00	1.00	04/09/19	KCA	1
Ethyl acetate	ND	0.278	0.278	ND	1.00	1.00	04/09/19	KCA	1
Ethylbenzene	ND	0.230	0.230	ND	1.00	1.00	04/09/19	KCA	1
Heptane	ND	0.244	0.244	ND	1.00	1.00	04/09/19	KCA	1
Hexachlorobutadiene	ND	0.094	0.094	ND	1.00	1.00	04/09/19	KCA	1
Hexane	ND	0.284	0.284	ND	1.00	1.00	04/09/19	KCA	1
Isopropylalcohol	0.952	0.407	0.407	2.34	1.00	1.00	04/09/19	KCA	1
Isopropylbenzene	ND	0.204	0.204	ND	1.00	1.00	04/09/19	KCA	1
m,p-Xylene	ND	0.230	0.230	ND	1.00	1.00	04/09/19	KCA	1
Methyl Ethyl Ketone	ND	0.339	0.339	ND	1.00	1.00	04/09/19	KCA	1
Methyl tert-butyl ether(MTBE)	ND	0.278	0.278	ND	1.00	1.00	04/09/19	KCA	1
Methylene Chloride	ND	0.864	0.864	ND	3.00	3.00	04/09/19	KCA	1
n-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	04/09/19	KCA	1
o-Xylene	ND	0.230	0.230	ND	1.00	1.00	04/09/19	KCA	1
Propylene	ND	0.581	0.581	ND	1.00	1.00	04/09/19	KCA	1
sec-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	04/09/19	KCA	1
Styrene	ND	0.235	0.235	ND	1.00	1.00	04/09/19	KCA	1
Tetrachloroethene	0.391	0.037	0.037	2.65	0.25	0.25	04/09/19	KCA	1
Tetrahydrofuran	ND	0.339	0.339	ND	1.00	1.00	04/09/19	KCA	1
Toluene	ND	0.266	0.266	ND	1.00	1.00	04/09/19	KCA	1
Trans-1,2-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	04/09/19	KCA	1
trans-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	04/09/19	KCA	1
Trichloroethene	ND	0.037	0.037	ND	0.20	0.20	04/09/19	KCA	1
Trichlorofluoromethane	0.267	0.178	0.178	1.50	1.00	1.00	04/09/19	KCA	1
Trichlorotrifluoroethane	ND	0.131	0.131	ND	1.00	1.00	04/09/19	KCA	1
Vinyl Chloride	ND	0.078	0.078	ND	0.20	0.20	04/09/19	KCA	1
<u>QA/QC Surrogates/Internals</u>									
% Bromofluorobenzene	101	%	%	101	%	%	04/09/19	KCA	1
% IS-1,4-Difluorobenzene	87	%	%	87	%	%	04/09/19	KCA	1
% IS-Bromochloromethane	87	%	%	87	%	%	04/09/19	KCA	1
% IS-Chlorobenzene-d5	88	%	%	88	%	%	04/09/19	KCA	1

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
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1 = This parameter is not certified by the primary accrediting authority (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 L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1

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

Comments:

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director

April 30, 2019

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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



Analysis Report

April 30, 2019

FOR: Attn: Erica Johnston
 Walden Environmental Engineering PLLC
 16 Spring Street
 Oyster Bay, NY 11771

Sample Information

Matrix: AIR
 Location Code: WALDENE
 Rush Request: Standard
 P.O.#: IMPL0115.6
 Canister Id: 11292

Custody Information

Collected by: EMJ, JKB,
 Received by: MCT
 Analyzed by: see "By" below

Date Time
 04/04/19 13:49
 04/08/19 15:26

Laboratory Data

SDG ID: GCC90508
 Phoenix ID: CC90515

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	04/09/19	KCA	1	1
1,1,1-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	04/09/19	KCA	1	
1,1,2,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	04/09/19	KCA	1	
1,1,2-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	04/09/19	KCA	1	
1,1-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	04/09/19	KCA	1	
1,1-Dichloroethene	ND	0.051	0.051	ND	0.20	0.20	04/09/19	KCA	1	
1,2,4-Trichlorobenzene	ND	0.135	0.135	ND	1.00	1.00	04/09/19	KCA	1	
1,2,4-Trimethylbenzene	0.351	0.204	0.204	1.72	1.00	1.00	04/09/19	KCA	1	
1,2-Dibromoethane(EDB)	ND	0.130	0.130	ND	1.00	1.00	04/09/19	KCA	1	
1,2-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	04/09/19	KCA	1	
1,2-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	04/09/19	KCA	1	
1,2-dichloropropane	ND	0.217	0.217	ND	1.00	1.00	04/09/19	KCA	1	
1,2-Dichlorotetrafluoroethane	ND	0.143	0.143	ND	1.00	1.00	04/09/19	KCA	1	
1,3,5-Trimethylbenzene	ND	0.204	0.204	ND	1.00	1.00	04/09/19	KCA	1	
1,3-Butadiene	ND	0.452	0.452	ND	1.00	1.00	04/09/19	KCA	1	
1,3-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	04/09/19	KCA	1	
1,4-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	04/09/19	KCA	1	
1,4-Dioxane	ND	0.278	0.278	ND	1.00	1.00	04/09/19	KCA	1	
2-Hexanone(MBK)	ND	0.244	0.244	ND	1.00	1.00	04/09/19	KCA	1	1
4-Ethyltoluene	ND	0.204	0.204	ND	1.00	1.00	04/09/19	KCA	1	1
4-Isopropyltoluene	ND	0.182	0.182	ND	1.00	1.00	04/09/19	KCA	1	1
4-Methyl-2-pentanone(MIBK)	ND	0.244	0.244	ND	1.00	1.00	04/09/19	KCA	1	
Acetone	3.53	0.421	0.421	8.38	1.00	1.00	04/09/19	KCA	1	
Acrylonitrile	ND	0.461	0.461	ND	1.00	1.00	04/09/19	KCA	1	
Benzene	ND	0.313	0.313	ND	1.00	1.00	04/09/19	KCA	1	
Benzyl chloride	ND	0.193	0.193	ND	1.00	1.00	04/09/19	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	04/09/19	KCA	1
Bromoform	ND	0.097	0.097	ND	1.00	1.00	04/09/19	KCA	1
Bromomethane	ND	0.258	0.258	ND	1.00	1.00	04/09/19	KCA	1
Carbon Disulfide	ND	0.321	0.321	ND	1.00	1.00	04/09/19	KCA	1
Carbon Tetrachloride	0.084	0.032	0.032	0.53	0.20	0.20	04/09/19	KCA	1
Chlorobenzene	ND	0.217	0.217	ND	1.00	1.00	04/09/19	KCA	1
Chloroethane	ND	0.379	0.379	ND	1.00	1.00	04/09/19	KCA	1
Chloroform	ND	0.205	0.205	ND	1.00	1.00	04/09/19	KCA	1
Chloromethane	0.630	0.485	0.485	1.30	1.00	1.00	04/09/19	KCA	1
Cis-1,2-Dichloroethene	ND	0.051	0.051	ND	0.20	0.20	04/09/19	KCA	1
cis-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	04/09/19	KCA	1
Cyclohexane	ND	0.291	0.291	ND	1.00	1.00	04/09/19	KCA	1
Dibromochloromethane	ND	0.118	0.118	ND	1.00	1.00	04/09/19	KCA	1
Dichlorodifluoromethane	0.474	0.202	0.202	2.34	1.00	1.00	04/09/19	KCA	1
Ethanol	5.32	0.531	0.531	10.0	1.00	1.00	04/09/19	KCA	1
Ethyl acetate	ND	0.278	0.278	ND	1.00	1.00	04/09/19	KCA	1
Ethylbenzene	ND	0.230	0.230	ND	1.00	1.00	04/09/19	KCA	1
Heptane	ND	0.244	0.244	ND	1.00	1.00	04/09/19	KCA	1
Hexachlorobutadiene	ND	0.094	0.094	ND	1.00	1.00	04/09/19	KCA	1
Hexane	ND	0.284	0.284	ND	1.00	1.00	04/09/19	KCA	1
Isopropylalcohol	1.15	0.407	0.407	2.83	1.00	1.00	04/09/19	KCA	1
Isopropylbenzene	ND	0.204	0.204	ND	1.00	1.00	04/09/19	KCA	1
m,p-Xylene	ND	0.230	0.230	ND	1.00	1.00	04/09/19	KCA	1
Methyl Ethyl Ketone	ND	0.339	0.339	ND	1.00	1.00	04/09/19	KCA	1
Methyl tert-butyl ether(MTBE)	ND	0.278	0.278	ND	1.00	1.00	04/09/19	KCA	1
Methylene Chloride	ND	0.864	0.864	ND	3.00	3.00	04/09/19	KCA	1
n-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	04/09/19	KCA	1
o-Xylene	ND	0.230	0.230	ND	1.00	1.00	04/09/19	KCA	1
Propylene	ND	0.581	0.581	ND	1.00	1.00	04/09/19	KCA	1
sec-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	04/09/19	KCA	1
Styrene	ND	0.235	0.235	ND	1.00	1.00	04/09/19	KCA	1
Tetrachloroethene	1.00	0.037	0.037	6.78	0.25	0.25	04/09/19	KCA	1
Tetrahydrofuran	ND	0.339	0.339	ND	1.00	1.00	04/09/19	KCA	1
Toluene	0.344	0.266	0.266	1.30	1.00	1.00	04/09/19	KCA	1
Trans-1,2-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	04/09/19	KCA	1
trans-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	04/09/19	KCA	1
Trichloroethene	ND	0.037	0.037	ND	0.20	0.20	04/09/19	KCA	1
Trichlorofluoromethane	0.257	0.178	0.178	1.44	1.00	1.00	04/09/19	KCA	1
Trichlorotrifluoroethane	ND	0.131	0.131	ND	1.00	1.00	04/09/19	KCA	1
Vinyl Chloride	ND	0.078	0.078	ND	0.20	0.20	04/09/19	KCA	1
<u>QA/QC Surrogates/Internals</u>									
% Bromofluorobenzene	100	%	%	100	%	%	04/09/19	KCA	1
% IS-1,4-Difluorobenzene	86	%	%	86	%	%	04/09/19	KCA	1
% IS-Bromochloromethane	84	%	%	84	%	%	04/09/19	KCA	1
% IS-Chlorobenzene-d5	88	%	%	88	%	%	04/09/19	KCA	1

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
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1 = This parameter is not certified by the primary accrediting authority (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 L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1

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

Comments:

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director

April 30, 2019

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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



Analysis Report

April 30, 2019

FOR: Attn: Erica Johnston
 Walden Environmental Engineering PLLC
 16 Spring Street
 Oyster Bay, NY 11771

Sample Information

Matrix: AIR
 Location Code: WALDENE
 Rush Request: Standard
 P.O.#: IMPL0115.6
 Canister Id: 23352

Custody Information

Collected by: EMJ, JKB,
 Received by: MCT
 Analyzed by: see "By" below

Date Time
 04/04/19 13:48
 04/08/19 15:26

Laboratory Data

SDG ID: GCC90508
 Phoenix ID: CC90516

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

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	04/09/19	KCA	1	1
1,1,1-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	04/09/19	KCA	1	
1,1,2,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	04/09/19	KCA	1	
1,1,2-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	04/09/19	KCA	1	
1,1-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	04/09/19	KCA	1	
1,1-Dichloroethene	ND	0.051	0.051	ND	0.20	0.20	04/09/19	KCA	1	
1,2,4-Trichlorobenzene	ND	0.135	0.135	ND	1.00	1.00	04/09/19	KCA	1	
1,2,4-Trimethylbenzene	2.61	0.204	0.204	12.8	1.00	1.00	04/09/19	KCA	1	
1,2-Dibromoethane(EDB)	ND	0.130	0.130	ND	1.00	1.00	04/09/19	KCA	1	
1,2-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	04/09/19	KCA	1	
1,2-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	04/09/19	KCA	1	
1,2-dichloropropane	ND	0.217	0.217	ND	1.00	1.00	04/09/19	KCA	1	
1,2-Dichlorotetrafluoroethane	ND	0.143	0.143	ND	1.00	1.00	04/09/19	KCA	1	
1,3,5-Trimethylbenzene	0.752	0.204	0.204	3.69	1.00	1.00	04/09/19	KCA	1	
1,3-Butadiene	ND	0.452	0.452	ND	1.00	1.00	04/09/19	KCA	1	
1,3-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	04/09/19	KCA	1	
1,4-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	04/09/19	KCA	1	
1,4-Dioxane	ND	0.278	0.278	ND	1.00	1.00	04/09/19	KCA	1	
2-Hexanone(MBK)	ND	0.244	0.244	ND	1.00	1.00	04/09/19	KCA	1	1
4-Ethyltoluene	0.713	0.204	0.204	3.50	1.00	1.00	04/09/19	KCA	1	1
4-Isopropyltoluene	ND	0.182	0.182	ND	1.00	1.00	04/09/19	KCA	1	1
4-Methyl-2-pentanone(MIBK)	ND	0.244	0.244	ND	1.00	1.00	04/09/19	KCA	1	
Acetone	5.98	0.421	0.421	14.2	1.00	1.00	04/09/19	KCA	1	
Acrylonitrile	ND	0.461	0.461	ND	1.00	1.00	04/09/19	KCA	1	
Benzene	ND	0.313	0.313	ND	1.00	1.00	04/09/19	KCA	1	
Benzyl chloride	ND	0.193	0.193	ND	1.00	1.00	04/09/19	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	04/09/19	KCA	1
Bromoform	ND	0.097	0.097	ND	1.00	1.00	04/09/19	KCA	1
Bromomethane	ND	0.258	0.258	ND	1.00	1.00	04/09/19	KCA	1
Carbon Disulfide	ND	0.321	0.321	ND	1.00	1.00	04/09/19	KCA	1
Carbon Tetrachloride	0.077	0.032	0.032	0.48	0.20	0.20	04/09/19	KCA	1
Chlorobenzene	ND	0.217	0.217	ND	1.00	1.00	04/09/19	KCA	1
Chloroethane	ND	0.379	0.379	ND	1.00	1.00	04/09/19	KCA	1
Chloroform	ND	0.205	0.205	ND	1.00	1.00	04/09/19	KCA	1
Chloromethane	0.625	0.485	0.485	1.29	1.00	1.00	04/09/19	KCA	1
Cis-1,2-Dichloroethene	ND	0.051	0.051	ND	0.20	0.20	04/09/19	KCA	1
cis-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	04/09/19	KCA	1
Cyclohexane	ND	0.291	0.291	ND	1.00	1.00	04/09/19	KCA	1
Dibromochloromethane	ND	0.118	0.118	ND	1.00	1.00	04/09/19	KCA	1
Dichlorodifluoromethane	0.464	0.202	0.202	2.29	1.00	1.00	04/09/19	KCA	1
Ethanol	8.80	0.531	0.531	16.6	1.00	1.00	04/09/19	KCA	1
Ethyl acetate	ND	0.278	0.278	ND	1.00	1.00	04/09/19	KCA	1
Ethylbenzene	ND	0.230	0.230	ND	1.00	1.00	04/09/19	KCA	1
Heptane	0.335	0.244	0.244	1.37	1.00	1.00	04/09/19	KCA	1
Hexachlorobutadiene	ND	0.094	0.094	ND	1.00	1.00	04/09/19	KCA	1
Hexane	0.666	0.284	0.284	2.35	1.00	1.00	04/09/19	KCA	1
Isopropylalcohol	1.02	0.407	0.407	2.51	1.00	1.00	04/09/19	KCA	1
Isopropylbenzene	ND	0.204	0.204	ND	1.00	1.00	04/09/19	KCA	1
m,p-Xylene	0.870	0.230	0.230	3.78	1.00	1.00	04/09/19	KCA	1
Methyl Ethyl Ketone	0.687	0.339	0.339	2.02	1.00	1.00	04/09/19	KCA	1
Methyl tert-butyl ether(MTBE)	ND	0.278	0.278	ND	1.00	1.00	04/09/19	KCA	1
Methylene Chloride	ND	0.864	0.864	ND	3.00	3.00	04/09/19	KCA	1
n-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	04/09/19	KCA	1
o-Xylene	0.387	0.230	0.230	1.68	1.00	1.00	04/09/19	KCA	1
Propylene	ND	0.581	0.581	ND	1.00	1.00	04/09/19	KCA	1
sec-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	04/09/19	KCA	1
Styrene	0.249	0.235	0.235	1.06	1.00	1.00	04/09/19	KCA	1
Tetrachloroethene	1.14	0.037	0.037	7.73	0.25	0.25	04/09/19	KCA	1
Tetrahydrofuran	1.24	0.339	0.339	3.65	1.00	1.00	04/09/19	KCA	1
Toluene	0.862	0.266	0.266	3.25	1.00	1.00	04/09/19	KCA	1
Trans-1,2-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	04/09/19	KCA	1
trans-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	04/09/19	KCA	1
Trichloroethene	0.041	0.037	0.037	0.22	0.20	0.20	04/09/19	KCA	1
Trichlorofluoromethane	0.263	0.178	0.178	1.48	1.00	1.00	04/09/19	KCA	1
Trichlorotrifluoroethane	ND	0.131	0.131	ND	1.00	1.00	04/09/19	KCA	1
Vinyl Chloride	ND	0.078	0.078	ND	0.20	0.20	04/09/19	KCA	1
<u>QA/QC Surrogates/Internals</u>									
% Bromofluorobenzene	103	%	%	103	%	%	04/09/19	KCA	1
% IS-1,4-Difluorobenzene	86	%	%	86	%	%	04/09/19	KCA	1
% IS-Bromochloromethane	85	%	%	85	%	%	04/09/19	KCA	1
% IS-Chlorobenzene-d5	89	%	%	89	%	%	04/09/19	KCA	1

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
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1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

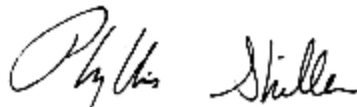
RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1

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:

The canister was received under no vacuum, therefore sample results may not be representative.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

April 30, 2019

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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



Analysis Report

April 30, 2019

FOR: Attn: Erica Johnston
 Walden Environmental Engineering PLLC
 16 Spring Street
 Oyster Bay, NY 11771

Sample Information

Matrix: AIR
 Location Code: WALDENE
 Rush Request: Standard
 P.O.#: IMPL0115.6
 Canister Id: 219

Custody Information

Collected by: EMJ, JKB,
 Received by: MPT
 Analyzed by: see "By" below

Date Time
 04/04/19 12:48
 04/08/19 15:26

Laboratory Data

SDG ID: GCC90508
 Phoenix ID: CC90517

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	0.729	0.729	ND	5.00	5.00	04/10/19	KCA	5
1,1,1-Trichloroethane	ND	0.917	0.917	ND	5.00	5.00	04/10/19	KCA	5
1,1,2,2-Tetrachloroethane	ND	0.729	0.729	ND	5.00	5.00	04/10/19	KCA	5
1,1,2-Trichloroethane	ND	0.917	0.917	ND	5.00	5.00	04/10/19	KCA	5
1,1-Dichloroethane	ND	1.24	1.24	ND	5.02	5.02	04/10/19	KCA	5
1,1-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	04/10/19	KCA	5
1,2,4-Trichlorobenzene	ND	0.674	0.674	ND	5.00	5.00	04/10/19	KCA	5
1,2,4-Trimethylbenzene	ND	1.02	1.02	ND	5.01	5.01	04/10/19	KCA	5
1,2-Dibromoethane(EDB)	ND	0.651	0.651	ND	5.00	5.00	04/10/19	KCA	5
1,2-Dichlorobenzene	ND	0.832	0.832	ND	5.00	5.00	04/10/19	KCA	5
1,2-Dichloroethane	ND	1.24	1.24	ND	5.02	5.02	04/10/19	KCA	5
1,2-dichloropropane	ND	1.08	1.08	ND	4.99	4.99	04/10/19	KCA	5
1,2-Dichlorotetrafluoroethane	ND	0.716	0.716	ND	5.00	5.00	04/10/19	KCA	5
1,3,5-Trimethylbenzene	ND	1.02	1.02	ND	5.01	5.01	04/10/19	KCA	5
1,3-Butadiene	ND	2.26	2.26	ND	5.00	5.00	04/10/19	KCA	5
1,3-Dichlorobenzene	ND	0.832	0.832	ND	5.00	5.00	04/10/19	KCA	5
1,4-Dichlorobenzene	ND	0.832	0.832	ND	5.00	5.00	04/10/19	KCA	5
1,4-Dioxane	ND	1.39	1.39	ND	5.01	5.01	04/10/19	KCA	5
2-Hexanone(MBK)	ND	1.22	1.22	ND	4.99	4.99	04/10/19	KCA	5
4-Ethyltoluene	ND	1.02	1.02	ND	5.01	5.01	04/10/19	KCA	5
4-Isopropyltoluene	ND	0.911	0.911	ND	5.00	5.00	04/10/19	KCA	5
4-Methyl-2-pentanone(MIBK)	ND	1.22	1.22	ND	4.99	4.99	04/10/19	KCA	5
Acetone	2.22	2.11	2.11	5.27	5.01	5.01	04/10/19	KCA	5
Acrylonitrile	ND	2.31	2.31	ND	5.01	5.01	04/10/19	KCA	5
Benzene	ND	1.57	1.57	ND	5.01	5.01	04/10/19	KCA	5
Benzyl chloride	ND	0.966	0.966	ND	5.00	5.00	04/10/19	KCA	5

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	0.747	0.747	ND	5.00	5.00	04/10/19	KCA	5
Bromoform	ND	0.484	0.484	ND	5.00	5.00	04/10/19	KCA	5
Bromomethane	ND	1.29	1.29	ND	5.01	5.01	04/10/19	KCA	5
Carbon Disulfide	ND	1.61	1.61	ND	5.01	5.01	04/10/19	KCA	5
Carbon Tetrachloride	ND	0.159	0.159	ND	1.00	1.00	04/10/19	KCA	5
Chlorobenzene	ND	1.09	1.09	ND	5.01	5.01	04/10/19	KCA	5
Chloroethane	ND	1.90	1.90	ND	5.01	5.01	04/10/19	KCA	5
Chloroform	17.2	1.02	1.02	83.9	4.98	4.98	04/10/19	KCA	5
Chloromethane	ND	2.42	2.42	ND	4.99	4.99	04/10/19	KCA	5
Cis-1,2-Dichloroethene	76.4	0.252	0.252	303	1.00	1.00	04/10/19	KCA	5
cis-1,3-Dichloropropene	ND	1.10	1.10	ND	4.99	4.99	04/10/19	KCA	5
Cyclohexane	ND	1.45	1.45	ND	4.99	4.99	04/10/19	KCA	5
Dibromochloromethane	ND	0.587	0.587	ND	5.00	5.00	04/10/19	KCA	5
Dichlorodifluoromethane	ND	1.01	1.01	ND	4.99	4.99	04/10/19	KCA	5
Ethanol	2.89	2.66	2.66	5.44	5.01	5.01	04/10/19	KCA	5
Ethyl acetate	ND	1.39	1.39	ND	5.01	5.01	04/10/19	KCA	5
Ethylbenzene	ND	1.15	1.15	ND	4.99	4.99	04/10/19	KCA	5
Heptane	ND	1.22	1.22	ND	5.00	5.00	04/10/19	KCA	5
Hexachlorobutadiene	ND	0.469	0.469	ND	5.00	5.00	04/10/19	KCA	5
Hexane	ND	1.42	1.42	ND	5.00	5.00	04/10/19	KCA	5
Isopropylalcohol	ND	2.04	2.04	ND	5.01	5.01	04/10/19	KCA	5
Isopropylbenzene	ND	1.02	1.02	ND	5.01	5.01	04/10/19	KCA	5
m,p-Xylene	ND	1.15	1.15	ND	4.99	4.99	04/10/19	KCA	5
Methyl Ethyl Ketone	ND	1.70	1.70	ND	5.01	5.01	04/10/19	KCA	5
Methyl tert-butyl ether(MTBE)	ND	1.39	1.39	ND	5.01	5.01	04/10/19	KCA	5
Methylene Chloride	ND	4.32	4.32	ND	15.0	15.0	04/10/19	KCA	5
n-Butylbenzene	ND	0.911	0.911	ND	5.00	5.00	04/10/19	KCA	5
o-Xylene	ND	1.15	1.15	ND	4.99	4.99	04/10/19	KCA	5
Propylene	ND	2.91	2.91	ND	5.01	5.01	04/10/19	KCA	5
sec-Butylbenzene	ND	0.911	0.911	ND	5.00	5.00	04/10/19	KCA	5
Styrene	ND	1.17	1.17	ND	4.98	4.98	04/10/19	KCA	5
Tetrachloroethene	6410	11.1	11.1	43400	75.2	75.2	04/10/19	KCA	300
Tetrahydrofuran	ND	1.70	1.70	ND	5.01	5.01	04/10/19	KCA	5
Toluene	ND	1.33	1.33	ND	5.01	5.01	04/10/19	KCA	5
Trans-1,2-Dichloroethene	4.43	1.26	1.26	17.6	4.99	4.99	04/10/19	KCA	5
trans-1,3-Dichloropropene	ND	1.10	1.10	ND	4.99	4.99	04/10/19	KCA	5
Trichloroethene	68.9	0.186	0.186	370	1.00	1.00	04/10/19	KCA	5
Trichlorofluoromethane	ND	0.891	0.891	ND	5.00	5.00	04/10/19	KCA	5
Trichlorotrifluoroethane	ND	0.653	0.653	ND	5.00	5.00	04/10/19	KCA	5
Vinyl Chloride	ND	0.391	0.391	ND	1.00	1.00	04/10/19	KCA	5
<u>QA/QC Surrogates/Internals</u>									
% Bromofluorobenzene (5x)	105	%	%	105	%	%	04/10/19	KCA	5
% IS-1,4-Difluorobenzene (5x)	82	%	%	82	%	%	04/10/19	KCA	5
% IS-Bromochloromethane (5x)	79	%	%	79	%	%	04/10/19	KCA	5
% IS-Chlorobenzene-d5 (5x)	82	%	%	82	%	%	04/10/19	KCA	5
% Bromofluorobenzene (300x)	102	%	%	102	%	%	04/10/19	KCA	300
% IS-1,4-Difluorobenzene (300x)	77	%	%	77	%	%	04/10/19	KCA	300
% IS-Bromochloromethane (300x)	77	%	%	77	%	%	04/10/19	KCA	300
% IS-Chlorobenzene-d5 (300x)	82	%	%	82	%	%	04/10/19	KCA	300

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
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1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

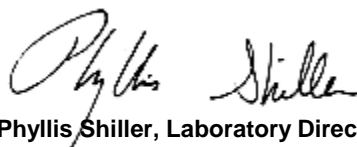
RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1

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

Comments:

An elevated reporting level was reported for TO15 due to a matrix interference of non target compounds.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

April 30, 2019

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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



Analysis Report

April 30, 2019

FOR: Attn: Erica Johnston
 Walden Environmental Engineering PLLC
 16 Spring Street
 Oyster Bay, NY 11771

Sample Information

Matrix: AIR
 Location Code: WALDENE
 Rush Request: Standard
 P.O.#: IMPL0115.6
 Canister Id: 28600

Custody Information

Collected by: EMJ, JKB,
 Received by: MCT
 Analyzed by: see "By" below

Date Time
 04/04/19 12:42
 04/08/19 15:26

Laboratory Data

SDG ID: GCC90508
 Phoenix ID: CC90518

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

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	04/09/19	KCA	1	1
1,1,1-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	04/09/19	KCA	1	
1,1,2,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	04/09/19	KCA	1	
1,1,2-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	04/09/19	KCA	1	
1,1-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	04/09/19	KCA	1	
1,1-Dichloroethene	ND	0.051	0.051	ND	0.20	0.20	04/09/19	KCA	1	
1,2,4-Trichlorobenzene	ND	0.135	0.135	ND	1.00	1.00	04/09/19	KCA	1	
1,2,4-Trimethylbenzene	ND	0.204	0.204	ND	1.00	1.00	04/09/19	KCA	1	
1,2-Dibromoethane(EDB)	ND	0.130	0.130	ND	1.00	1.00	04/09/19	KCA	1	
1,2-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	04/09/19	KCA	1	
1,2-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	04/09/19	KCA	1	
1,2-dichloropropane	ND	0.217	0.217	ND	1.00	1.00	04/09/19	KCA	1	
1,2-Dichlorotetrafluoroethane	ND	0.143	0.143	ND	1.00	1.00	04/09/19	KCA	1	
1,3,5-Trimethylbenzene	ND	0.204	0.204	ND	1.00	1.00	04/09/19	KCA	1	
1,3-Butadiene	ND	0.452	0.452	ND	1.00	1.00	04/09/19	KCA	1	
1,3-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	04/09/19	KCA	1	
1,4-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	04/09/19	KCA	1	
1,4-Dioxane	ND	0.278	0.278	ND	1.00	1.00	04/09/19	KCA	1	
2-Hexanone(MBK)	ND	0.244	0.244	ND	1.00	1.00	04/09/19	KCA	1	1
4-Ethyltoluene	ND	0.204	0.204	ND	1.00	1.00	04/09/19	KCA	1	1
4-Isopropyltoluene	ND	0.182	0.182	ND	1.00	1.00	04/09/19	KCA	1	1
4-Methyl-2-pentanone(MIBK)	ND	0.244	0.244	ND	1.00	1.00	04/09/19	KCA	1	
Acetone	2.91	0.421	0.421	6.91	1.00	1.00	04/09/19	KCA	1	
Acrylonitrile	ND	0.461	0.461	ND	1.00	1.00	04/09/19	KCA	1	
Benzene	ND	0.313	0.313	ND	1.00	1.00	04/09/19	KCA	1	
Benzyl chloride	ND	0.193	0.193	ND	1.00	1.00	04/09/19	KCA	1	

Client ID: AA-DUP

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	04/09/19	KCA	1
Bromoform	ND	0.097	0.097	ND	1.00	1.00	04/09/19	KCA	1
Bromomethane	ND	0.258	0.258	ND	1.00	1.00	04/09/19	KCA	1
Carbon Disulfide	ND	0.321	0.321	ND	1.00	1.00	04/09/19	KCA	1
Carbon Tetrachloride	0.080	0.032	0.032	0.50	0.20	0.20	04/09/19	KCA	1
Chlorobenzene	ND	0.217	0.217	ND	1.00	1.00	04/09/19	KCA	1
Chloroethane	ND	0.379	0.379	ND	1.00	1.00	04/09/19	KCA	1
Chloroform	ND	0.205	0.205	ND	1.00	1.00	04/09/19	KCA	1
Chloromethane	0.641	0.485	0.485	1.32	1.00	1.00	04/09/19	KCA	1
Cis-1,2-Dichloroethene	ND	0.051	0.051	ND	0.20	0.20	04/09/19	KCA	1
cis-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	04/09/19	KCA	1
Cyclohexane	ND	0.291	0.291	ND	1.00	1.00	04/09/19	KCA	1
Dibromochloromethane	ND	0.118	0.118	ND	1.00	1.00	04/09/19	KCA	1
Dichlorodifluoromethane	0.489	0.202	0.202	2.42	1.00	1.00	04/09/19	KCA	1
Ethanol	2.16	0.531	0.531	4.07	1.00	1.00	04/09/19	KCA	1
Ethyl acetate	ND	0.278	0.278	ND	1.00	1.00	04/09/19	KCA	1
Ethylbenzene	ND	0.230	0.230	ND	1.00	1.00	04/09/19	KCA	1
Heptane	ND	0.244	0.244	ND	1.00	1.00	04/09/19	KCA	1
Hexachlorobutadiene	ND	0.094	0.094	ND	1.00	1.00	04/09/19	KCA	1
Hexane	ND	0.284	0.284	ND	1.00	1.00	04/09/19	KCA	1
Isopropylalcohol	0.515	0.407	0.407	1.27	1.00	1.00	04/09/19	KCA	1
Isopropylbenzene	ND	0.204	0.204	ND	1.00	1.00	04/09/19	KCA	1
m,p-Xylene	ND	0.230	0.230	ND	1.00	1.00	04/09/19	KCA	1
Methyl Ethyl Ketone	ND	0.339	0.339	ND	1.00	1.00	04/09/19	KCA	1
Methyl tert-butyl ether(MTBE)	ND	0.278	0.278	ND	1.00	1.00	04/09/19	KCA	1
Methylene Chloride	ND	0.864	0.864	ND	3.00	3.00	04/09/19	KCA	1
n-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	04/09/19	KCA	1
o-Xylene	ND	0.230	0.230	ND	1.00	1.00	04/09/19	KCA	1
Propylene	ND	0.581	0.581	ND	1.00	1.00	04/09/19	KCA	1
sec-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	04/09/19	KCA	1
Styrene	ND	0.235	0.235	ND	1.00	1.00	04/09/19	KCA	1
Tetrachloroethene	ND	0.037	0.037	ND	0.25	0.25	04/09/19	KCA	1
Tetrahydrofuran	ND	0.339	0.339	ND	1.00	1.00	04/09/19	KCA	1
Toluene	ND	0.266	0.266	ND	1.00	1.00	04/09/19	KCA	1
Trans-1,2-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	04/09/19	KCA	1
trans-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	04/09/19	KCA	1
Trichloroethene	ND	0.037	0.037	ND	0.20	0.20	04/09/19	KCA	1
Trichlorofluoromethane	0.263	0.178	0.178	1.48	1.00	1.00	04/09/19	KCA	1
Trichlorotrifluoroethane	ND	0.131	0.131	ND	1.00	1.00	04/09/19	KCA	1
Vinyl Chloride	ND	0.078	0.078	ND	0.20	0.20	04/09/19	KCA	1
<u>QA/QC Surrogates/Internals</u>									
% Bromofluorobenzene	99	%	%	99	%	%	04/09/19	KCA	1
% IS-1,4-Difluorobenzene	86	%	%	86	%	%	04/09/19	KCA	1
% IS-Bromochloromethane	87	%	%	87	%	%	04/09/19	KCA	1
% IS-Chlorobenzene-d5	89	%	%	89	%	%	04/09/19	KCA	1

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
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1 = This parameter is not certified by the primary accrediting authority (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 L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1

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

Comments:

The canister was received under no vacuum, therefore sample results may not be representative.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director

April 30, 2019

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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



Analysis Report

April 30, 2019

FOR: Attn: Erica Johnston
 Walden Environmental Engineering PLLC
 16 Spring Street
 Oyster Bay, NY 11771

Sample Information

Matrix: AIR
 Location Code: WALDENE
 Rush Request: Standard
 P.O.#: IMPL0115.6
 Canister Id: 19854

Custody Information

Collected by: EMJ, JKB,
 Received by: MPT
 Analyzed by: see "By" below

Date

04/04/19 13:43
 04/08/19 15:26

Time

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

Laboratory Data

SDG ID: GCC90508
 Phoenix ID: CC90519

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	04/09/19	KCA	1
1,1,1-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	04/09/19	KCA	1
1,1,2,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	04/09/19	KCA	1
1,1,2-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	04/09/19	KCA	1
1,1-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	04/09/19	KCA	1
1,1-Dichloroethene	ND	0.051	0.051	ND	0.20	0.20	04/09/19	KCA	1
1,2,4-Trichlorobenzene	ND	0.135	0.135	ND	1.00	1.00	04/09/19	KCA	1
1,2,4-Trimethylbenzene	ND	0.204	0.204	ND	1.00	1.00	04/09/19	KCA	1
1,2-Dibromoethane(EDB)	ND	0.130	0.130	ND	1.00	1.00	04/09/19	KCA	1
1,2-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	04/09/19	KCA	1
1,2-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	04/09/19	KCA	1
1,2-dichloropropane	ND	0.217	0.217	ND	1.00	1.00	04/09/19	KCA	1
1,2-Dichlorotetrafluoroethane	ND	0.143	0.143	ND	1.00	1.00	04/09/19	KCA	1
1,3,5-Trimethylbenzene	ND	0.204	0.204	ND	1.00	1.00	04/09/19	KCA	1
1,3-Butadiene	ND	0.452	0.452	ND	1.00	1.00	04/09/19	KCA	1
1,3-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	04/09/19	KCA	1
1,4-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	04/09/19	KCA	1
1,4-Dioxane	ND	0.278	0.278	ND	1.00	1.00	04/09/19	KCA	1
2-Hexanone(MBK)	ND	0.244	0.244	ND	1.00	1.00	04/09/19	KCA	1
4-Ethyltoluene	ND	0.204	0.204	ND	1.00	1.00	04/09/19	KCA	1
4-Isopropyltoluene	ND	0.182	0.182	ND	1.00	1.00	04/09/19	KCA	1
4-Methyl-2-pentanone(MIBK)	ND	0.244	0.244	ND	1.00	1.00	04/09/19	KCA	1
Acetone	1.79	0.421	0.421	4.25	1.00	1.00	04/09/19	KCA	1
Acrylonitrile	ND	0.461	0.461	ND	1.00	1.00	04/09/19	KCA	1
Benzene	ND	0.313	0.313	ND	1.00	1.00	04/09/19	KCA	1
Benzyl chloride	ND	0.193	0.193	ND	1.00	1.00	04/09/19	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	04/09/19	KCA	1
Bromoform	ND	0.097	0.097	ND	1.00	1.00	04/09/19	KCA	1
Bromomethane	ND	0.258	0.258	ND	1.00	1.00	04/09/19	KCA	1
Carbon Disulfide	0.471	0.321	0.321	1.47	1.00	1.00	04/09/19	KCA	1
Carbon Tetrachloride	0.083	0.032	0.032	0.52	0.20	0.20	04/09/19	KCA	1
Chlorobenzene	ND	0.217	0.217	ND	1.00	1.00	04/09/19	KCA	1
Chloroethane	ND	0.379	0.379	ND	1.00	1.00	04/09/19	KCA	1
Chloroform	ND	0.205	0.205	ND	1.00	1.00	04/09/19	KCA	1
Chloromethane	0.638	0.485	0.485	1.32	1.00	1.00	04/09/19	KCA	1
Cis-1,2-Dichloroethene	ND	0.051	0.051	ND	0.20	0.20	04/09/19	KCA	1
cis-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	04/09/19	KCA	1
Cyclohexane	ND	0.291	0.291	ND	1.00	1.00	04/09/19	KCA	1
Dibromochloromethane	ND	0.118	0.118	ND	1.00	1.00	04/09/19	KCA	1
Dichlorodifluoromethane	0.472	0.202	0.202	2.33	1.00	1.00	04/09/19	KCA	1
Ethanol	2.44	0.531	0.531	4.59	1.00	1.00	04/09/19	KCA	1
Ethyl acetate	ND	0.278	0.278	ND	1.00	1.00	04/09/19	KCA	1
Ethylbenzene	ND	0.230	0.230	ND	1.00	1.00	04/09/19	KCA	1
Heptane	ND	0.244	0.244	ND	1.00	1.00	04/09/19	KCA	1
Hexachlorobutadiene	ND	0.094	0.094	ND	1.00	1.00	04/09/19	KCA	1
Hexane	ND	0.284	0.284	ND	1.00	1.00	04/09/19	KCA	1
Isopropylalcohol	0.575	0.407	0.407	1.41	1.00	1.00	04/09/19	KCA	1
Isopropylbenzene	ND	0.204	0.204	ND	1.00	1.00	04/09/19	KCA	1
m,p-Xylene	ND	0.230	0.230	ND	1.00	1.00	04/09/19	KCA	1
Methyl Ethyl Ketone	ND	0.339	0.339	ND	1.00	1.00	04/09/19	KCA	1
Methyl tert-butyl ether(MTBE)	ND	0.278	0.278	ND	1.00	1.00	04/09/19	KCA	1
Methylene Chloride	ND	0.864	0.864	ND	3.00	3.00	04/09/19	KCA	1
n-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	04/09/19	KCA	1
o-Xylene	ND	0.230	0.230	ND	1.00	1.00	04/09/19	KCA	1
Propylene	ND	0.581	0.581	ND	1.00	1.00	04/09/19	KCA	1
sec-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	04/09/19	KCA	1
Styrene	ND	0.235	0.235	ND	1.00	1.00	04/09/19	KCA	1
Tetrachloroethene	ND	0.037	0.037	ND	0.25	0.25	04/09/19	KCA	1
Tetrahydrofuran	ND	0.339	0.339	ND	1.00	1.00	04/09/19	KCA	1
Toluene	ND	0.266	0.266	ND	1.00	1.00	04/09/19	KCA	1
Trans-1,2-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	04/09/19	KCA	1
trans-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	04/09/19	KCA	1
Trichloroethene	ND	0.037	0.037	ND	0.20	0.20	04/09/19	KCA	1
Trichlorofluoromethane	0.253	0.178	0.178	1.42	1.00	1.00	04/09/19	KCA	1
Trichlorotrifluoroethane	ND	0.131	0.131	ND	1.00	1.00	04/09/19	KCA	1
Vinyl Chloride	ND	0.078	0.078	ND	0.20	0.20	04/09/19	KCA	1
<u>QA/QC Surrogates/Internals</u>									
% Bromofluorobenzene	100	%	%	100	%	%	04/09/19	KCA	1
% IS-1,4-Difluorobenzene	84	%	%	84	%	%	04/09/19	KCA	1
% IS-Bromochloromethane	83	%	%	83	%	%	04/09/19	KCA	1
% IS-Chlorobenzene-d5	88	%	%	88	%	%	04/09/19	KCA	1

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
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1 = This parameter is not certified by the primary accrediting authority (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 L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1

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:

The canister was received under no vacuum, therefore sample results may not be representative.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director

April 30, 2019

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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



Analysis Report

April 30, 2019

FOR: Attn: Erica Johnston
 Walden Environmental Engineering PLLC
 16 Spring Street
 Oyster Bay, NY 11771

Sample Information

Matrix: AIR
 Location Code: WALDENE
 Rush Request: Standard
 P.O.#: IMPL0115.6
 Canister Id: 21341

Custody Information

Collected by: EMJ, JKB,
 Received by: MPT
 Analyzed by: see "By" below

Date Time
 04/04/19 12:41
 04/08/19 15:26

Laboratory Data

SDG ID: GCC90508
 Phoenix ID: CC90520

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	04/09/19	KCA	1	1
1,1,1-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	04/09/19	KCA	1	
1,1,2,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	04/09/19	KCA	1	
1,1,2-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	04/09/19	KCA	1	
1,1-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	04/09/19	KCA	1	
1,1-Dichloroethene	ND	0.051	0.051	ND	0.20	0.20	04/09/19	KCA	1	
1,2,4-Trichlorobenzene	ND	0.135	0.135	ND	1.00	1.00	04/09/19	KCA	1	
1,2,4-Trimethylbenzene	ND	0.204	0.204	ND	1.00	1.00	04/09/19	KCA	1	
1,2-Dibromoethane(EDB)	ND	0.130	0.130	ND	1.00	1.00	04/09/19	KCA	1	
1,2-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	04/09/19	KCA	1	
1,2-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	04/09/19	KCA	1	
1,2-dichloropropane	ND	0.217	0.217	ND	1.00	1.00	04/09/19	KCA	1	
1,2-Dichlorotetrafluoroethane	ND	0.143	0.143	ND	1.00	1.00	04/09/19	KCA	1	
1,3,5-Trimethylbenzene	ND	0.204	0.204	ND	1.00	1.00	04/09/19	KCA	1	
1,3-Butadiene	ND	0.452	0.452	ND	1.00	1.00	04/09/19	KCA	1	
1,3-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	04/09/19	KCA	1	
1,4-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	04/09/19	KCA	1	
1,4-Dioxane	ND	0.278	0.278	ND	1.00	1.00	04/09/19	KCA	1	
2-Hexanone(MBK)	ND	0.244	0.244	ND	1.00	1.00	04/09/19	KCA	1	1
4-Ethyltoluene	ND	0.204	0.204	ND	1.00	1.00	04/09/19	KCA	1	1
4-Isopropyltoluene	ND	0.182	0.182	ND	1.00	1.00	04/09/19	KCA	1	1
4-Methyl-2-pentanone(MIBK)	ND	0.244	0.244	ND	1.00	1.00	04/09/19	KCA	1	
Acetone	1.67	0.421	0.421	3.96	1.00	1.00	04/09/19	KCA	1	
Acrylonitrile	ND	0.461	0.461	ND	1.00	1.00	04/09/19	KCA	1	
Benzene	ND	0.313	0.313	ND	1.00	1.00	04/09/19	KCA	1	
Benzyl chloride	ND	0.193	0.193	ND	1.00	1.00	04/09/19	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	04/09/19	KCA	1
Bromoform	ND	0.097	0.097	ND	1.00	1.00	04/09/19	KCA	1
Bromomethane	ND	0.258	0.258	ND	1.00	1.00	04/09/19	KCA	1
Carbon Disulfide	ND	0.321	0.321	ND	1.00	1.00	04/09/19	KCA	1
Carbon Tetrachloride	0.080	0.032	0.032	0.50	0.20	0.20	04/09/19	KCA	1
Chlorobenzene	ND	0.217	0.217	ND	1.00	1.00	04/09/19	KCA	1
Chloroethane	ND	0.379	0.379	ND	1.00	1.00	04/09/19	KCA	1
Chloroform	ND	0.205	0.205	ND	1.00	1.00	04/09/19	KCA	1
Chloromethane	0.598	0.485	0.485	1.23	1.00	1.00	04/09/19	KCA	1
Cis-1,2-Dichloroethene	ND	0.051	0.051	ND	0.20	0.20	04/09/19	KCA	1
cis-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	04/09/19	KCA	1
Cyclohexane	ND	0.291	0.291	ND	1.00	1.00	04/09/19	KCA	1
Dibromochloromethane	ND	0.118	0.118	ND	1.00	1.00	04/09/19	KCA	1
Dichlorodifluoromethane	0.482	0.202	0.202	2.38	1.00	1.00	04/09/19	KCA	1
Ethanol	2.22	0.531	0.531	4.18	1.00	1.00	04/09/19	KCA	1
Ethyl acetate	ND	0.278	0.278	ND	1.00	1.00	04/09/19	KCA	1
Ethylbenzene	ND	0.230	0.230	ND	1.00	1.00	04/09/19	KCA	1
Heptane	ND	0.244	0.244	ND	1.00	1.00	04/09/19	KCA	1
Hexachlorobutadiene	ND	0.094	0.094	ND	1.00	1.00	04/09/19	KCA	1
Hexane	ND	0.284	0.284	ND	1.00	1.00	04/09/19	KCA	1
Isopropylalcohol	0.676	0.407	0.407	1.66	1.00	1.00	04/09/19	KCA	1
Isopropylbenzene	ND	0.204	0.204	ND	1.00	1.00	04/09/19	KCA	1
m,p-Xylene	ND	0.230	0.230	ND	1.00	1.00	04/09/19	KCA	1
Methyl Ethyl Ketone	ND	0.339	0.339	ND	1.00	1.00	04/09/19	KCA	1
Methyl tert-butyl ether(MTBE)	ND	0.278	0.278	ND	1.00	1.00	04/09/19	KCA	1
Methylene Chloride	ND	0.864	0.864	ND	3.00	3.00	04/09/19	KCA	1
n-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	04/09/19	KCA	1
o-Xylene	ND	0.230	0.230	ND	1.00	1.00	04/09/19	KCA	1
Propylene	ND	0.581	0.581	ND	1.00	1.00	04/09/19	KCA	1
sec-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	04/09/19	KCA	1
Styrene	ND	0.235	0.235	ND	1.00	1.00	04/09/19	KCA	1
Tetrachloroethene	ND	0.037	0.037	ND	0.25	0.25	04/09/19	KCA	1
Tetrahydrofuran	ND	0.339	0.339	ND	1.00	1.00	04/09/19	KCA	1
Toluene	ND	0.266	0.266	ND	1.00	1.00	04/09/19	KCA	1
Trans-1,2-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	04/09/19	KCA	1
trans-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	04/09/19	KCA	1
Trichloroethene	ND	0.037	0.037	ND	0.20	0.20	04/09/19	KCA	1
Trichlorofluoromethane	0.250	0.178	0.178	1.40	1.00	1.00	04/09/19	KCA	1
Trichlorotrifluoroethane	ND	0.131	0.131	ND	1.00	1.00	04/09/19	KCA	1
Vinyl Chloride	ND	0.078	0.078	ND	0.20	0.20	04/09/19	KCA	1
<u>QA/QC Surrogates/Internals</u>									
% Bromofluorobenzene	100	%	%	100	%	%	04/09/19	KCA	1
% IS-1,4-Difluorobenzene	82	%	%	82	%	%	04/09/19	KCA	1
% IS-Bromochloromethane	82	%	%	82	%	%	04/09/19	KCA	1
% IS-Chlorobenzene-d5	86	%	%	86	%	%	04/09/19	KCA	1

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
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1 = This parameter is not certified by the primary accrediting authority (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 L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1

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:

The canister was received under no vacuum, therefore sample results may not be representative.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director

April 30, 2019

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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



Analysis Report

April 30, 2019

FOR: Attn: Erica Johnston
 Walden Environmental Engineering PLLC
 16 Spring Street
 Oyster Bay, NY 11771

Sample Information

Matrix: AIR
 Location Code: WALDENE
 Rush Request: Standard
 P.O.#: IMPL0115.6
 Canister Id: 13635

Custody Information

Collected by: EMJ, JKB,
 Received by: MPT
 Analyzed by: see "By" below

Date Time
 04/04/19 15:21
 04/08/19 15:26

Laboratory Data

SDG ID: GCC90508
 Phoenix ID: CC90521

Project ID: 218 LAKEVILLE RD
 Client ID: IA-10

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	04/10/19	KCA	1	1
1,1,1-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	04/10/19	KCA	1	
1,1,2,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	04/10/19	KCA	1	
1,1,2-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	04/10/19	KCA	1	
1,1-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	04/10/19	KCA	1	
1,1-Dichloroethene	ND	0.051	0.051	ND	0.20	0.20	04/10/19	KCA	1	
1,2,4-Trichlorobenzene	ND	0.135	0.135	ND	1.00	1.00	04/10/19	KCA	1	
1,2,4-Trimethylbenzene	1.58	0.204	0.204	7.76	1.00	1.00	04/10/19	KCA	1	
1,2-Dibromoethane(EDB)	ND	0.130	0.130	ND	1.00	1.00	04/10/19	KCA	1	
1,2-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	04/10/19	KCA	1	
1,2-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	04/10/19	KCA	1	
1,2-dichloropropane	ND	0.217	0.217	ND	1.00	1.00	04/10/19	KCA	1	
1,2-Dichlorotetrafluoroethane	ND	0.143	0.143	ND	1.00	1.00	04/10/19	KCA	1	
1,3,5-Trimethylbenzene	0.375	0.204	0.204	1.84	1.00	1.00	04/10/19	KCA	1	
1,3-Butadiene	ND	0.452	0.452	ND	1.00	1.00	04/10/19	KCA	1	
1,3-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	04/10/19	KCA	1	
1,4-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	04/10/19	KCA	1	
1,4-Dioxane	ND	0.278	0.278	ND	1.00	1.00	04/10/19	KCA	1	
2-Hexanone(MBK)	ND	0.244	0.244	ND	1.00	1.00	04/10/19	KCA	1	1
4-Ethyltoluene	0.419	0.204	0.204	2.06	1.00	1.00	04/10/19	KCA	1	1
4-Isopropyltoluene	ND	0.182	0.182	ND	1.00	1.00	04/10/19	KCA	1	1
4-Methyl-2-pentanone(MIBK)	ND	0.244	0.244	ND	1.00	1.00	04/10/19	KCA	1	
Acetone	17.3	0.421	0.421	41.1	1.00	1.00	04/10/19	KCA	1	
Acrylonitrile	ND	0.461	0.461	ND	1.00	1.00	04/10/19	KCA	1	
Benzene	1.03	0.313	0.313	3.29	1.00	1.00	04/10/19	KCA	1	
Benzyl chloride	ND	0.193	0.193	ND	1.00	1.00	04/10/19	KCA	1	

Client ID: IA-10

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	04/10/19	KCA	1
Bromoform	ND	0.097	0.097	ND	1.00	1.00	04/10/19	KCA	1
Bromomethane	ND	0.258	0.258	ND	1.00	1.00	04/10/19	KCA	1
Carbon Disulfide	ND	0.321	0.321	ND	1.00	1.00	04/10/19	KCA	1
Carbon Tetrachloride	0.073	0.032	0.032	0.46	0.20	0.20	04/10/19	KCA	1
Chlorobenzene	ND	0.217	0.217	ND	1.00	1.00	04/10/19	KCA	1
Chloroethane	ND	0.379	0.379	ND	1.00	1.00	04/10/19	KCA	1
Chloroform	ND	0.205	0.205	ND	1.00	1.00	04/10/19	KCA	1
Chloromethane	0.652	0.485	0.485	1.35	1.00	1.00	04/10/19	KCA	1
Cis-1,2-Dichloroethene	ND	0.051	0.051	ND	0.20	0.20	04/10/19	KCA	1
cis-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	04/10/19	KCA	1
Cyclohexane	1.47	0.291	0.291	5.06	1.00	1.00	04/10/19	KCA	1
Dibromochloromethane	ND	0.118	0.118	ND	1.00	1.00	04/10/19	KCA	1
Dichlorodifluoromethane	0.615	0.202	0.202	3.04	1.00	1.00	04/10/19	KCA	1
Ethanol	54.4	E 0.531	0.531	102	1.00	1.00	04/10/19	KCA	1
Ethyl acetate	1.32	0.278	0.278	4.75	1.00	1.00	04/10/19	KCA	1
Ethylbenzene	1.67	0.230	0.230	7.25	1.00	1.00	04/10/19	KCA	1
Heptane	3.20	0.244	0.244	13.1	1.00	1.00	04/10/19	KCA	1
Hexachlorobutadiene	ND	0.094	0.094	ND	1.00	1.00	04/10/19	KCA	1
Hexane	4.64	0.284	0.284	16.3	1.00	1.00	04/10/19	KCA	1
Isopropylalcohol	1.76	0.407	0.407	4.32	1.00	1.00	04/10/19	KCA	1
Isopropylbenzene	ND	0.204	0.204	ND	1.00	1.00	04/10/19	KCA	1
m,p-Xylene	6.33	0.230	0.230	27.5	1.00	1.00	04/10/19	KCA	1
Methyl Ethyl Ketone	1.31	0.339	0.339	3.86	1.00	1.00	04/10/19	KCA	1
Methyl tert-butyl ether(MTBE)	ND	0.278	0.278	ND	1.00	1.00	04/10/19	KCA	1
Methylene Chloride	34.6	0.864	0.864	120	3.00	3.00	04/10/19	KCA	1
n-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	04/10/19	KCA	1
o-Xylene	2.06	0.230	0.230	8.94	1.00	1.00	04/10/19	KCA	1
Propylene	ND	0.581	0.581	ND	1.00	1.00	04/10/19	KCA	1
sec-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	04/10/19	KCA	1
Styrene	ND	0.235	0.235	ND	1.00	1.00	04/10/19	KCA	1
Tetrachloroethene	1.69	0.037	0.037	11.5	0.25	0.25	04/10/19	KCA	1
Tetrahydrofuran	0.926	0.339	0.339	2.73	1.00	1.00	04/10/19	KCA	1
Toluene	10.2	0.266	0.266	38.4	1.00	1.00	04/10/19	KCA	1
Trans-1,2-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	04/10/19	KCA	1
trans-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	04/10/19	KCA	1
Trichloroethene	0.145	0.037	0.037	0.78	0.20	0.20	04/10/19	KCA	1
Trichlorofluoromethane	0.319	0.178	0.178	1.79	1.00	1.00	04/10/19	KCA	1
Trichlorotrifluoroethane	ND	0.131	0.131	ND	1.00	1.00	04/10/19	KCA	1
Vinyl Chloride	ND	0.078	0.078	ND	0.20	0.20	04/10/19	KCA	1
<u>QA/QC Surrogates/Internals</u>									
% Bromofluorobenzene	102	%	%	102	%	%	04/10/19	KCA	1
% IS-1,4-Difluorobenzene	82	%	%	82	%	%	04/10/19	KCA	1
% IS-Bromochloromethane	79	%	%	79	%	%	04/10/19	KCA	1
% IS-Chlorobenzene-d5	89	%	%	89	%	%	04/10/19	KCA	1

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
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1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

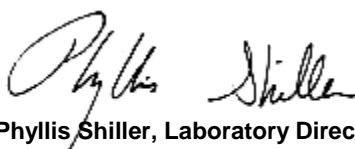
RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1

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.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

April 30, 2019

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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



Analysis Report

April 30, 2019

FOR: Attn: Erica Johnston
 Walden Environmental Engineering PLLC
 16 Spring Street
 Oyster Bay, NY 11771

Sample Information

Matrix: AIR
 Location Code: WALDENE
 Rush Request: Standard
 P.O.#: IMPL0115.6
 Canister Id: 156

Custody Information

Collected by: EMJ, JKB,
 Received by: MPT
 Analyzed by: see "By" below

Date: 04/04/19 12:20
 04/08/19 15:26

Laboratory Data

SDG ID: GCC90508
 Phoenix ID: CC90522

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

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	04/10/19	KCA	1	1
1,1,1-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	04/10/19	KCA	1	
1,1,2,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	04/10/19	KCA	1	
1,1,2-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	04/10/19	KCA	1	
1,1-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	04/10/19	KCA	1	
1,1-Dichloroethene	ND	0.051	0.051	ND	0.20	0.20	04/10/19	KCA	1	
1,2,4-Trichlorobenzene	ND	0.135	0.135	ND	1.00	1.00	04/10/19	KCA	1	
1,2,4-Trimethylbenzene	3.44	0.204	0.204	16.9	1.00	1.00	04/10/19	KCA	1	
1,2-Dibromoethane(EDB)	ND	0.130	0.130	ND	1.00	1.00	04/10/19	KCA	1	
1,2-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	04/10/19	KCA	1	
1,2-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	04/10/19	KCA	1	
1,2-dichloropropane	ND	0.217	0.217	ND	1.00	1.00	04/10/19	KCA	1	
1,2-Dichlorotetrafluoroethane	ND	0.143	0.143	ND	1.00	1.00	04/10/19	KCA	1	
1,3,5-Trimethylbenzene	1.01	0.204	0.204	4.96	1.00	1.00	04/10/19	KCA	1	
1,3-Butadiene	ND	0.452	0.452	ND	1.00	1.00	04/10/19	KCA	1	
1,3-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	04/10/19	KCA	1	
1,4-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	04/10/19	KCA	1	
1,4-Dioxane	ND	0.278	0.278	ND	1.00	1.00	04/10/19	KCA	1	
2-Hexanone(MBK)	ND	0.244	0.244	ND	1.00	1.00	04/10/19	KCA	1	1
4-Ethyltoluene	1.29	0.204	0.204	6.34	1.00	1.00	04/10/19	KCA	1	1
4-Isopropyltoluene	ND	0.182	0.182	ND	1.00	1.00	04/10/19	KCA	1	1
4-Methyl-2-pentanone(MIBK)	ND	0.244	0.244	ND	1.00	1.00	04/10/19	KCA	1	
Acetone	8.49	0.421	0.421	20.2	1.00	1.00	04/10/19	KCA	1	
Acrylonitrile	ND	0.461	0.461	ND	1.00	1.00	04/10/19	KCA	1	
Benzene	0.516	0.313	0.313	1.65	1.00	1.00	04/10/19	KCA	1	
Benzyl chloride	ND	0.193	0.193	ND	1.00	1.00	04/10/19	KCA	1	

Client ID: IA-DUP

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	04/10/19	KCA	1
Bromoform	ND	0.097	0.097	ND	1.00	1.00	04/10/19	KCA	1
Bromomethane	ND	0.258	0.258	ND	1.00	1.00	04/10/19	KCA	1
Carbon Disulfide	ND	0.321	0.321	ND	1.00	1.00	04/10/19	KCA	1
Carbon Tetrachloride	0.074	0.032	0.032	0.47	0.20	0.20	04/10/19	KCA	1
Chlorobenzene	ND	0.217	0.217	ND	1.00	1.00	04/10/19	KCA	1
Chloroethane	ND	0.379	0.379	ND	1.00	1.00	04/10/19	KCA	1
Chloroform	ND	0.205	0.205	ND	1.00	1.00	04/10/19	KCA	1
Chloromethane	0.580	0.485	0.485	1.20	1.00	1.00	04/10/19	KCA	1
Cis-1,2-Dichloroethene	0.058	0.051	0.051	0.23	0.20	0.20	04/10/19	KCA	1
cis-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	04/10/19	KCA	1
Cyclohexane	0.902	0.291	0.291	3.10	1.00	1.00	04/10/19	KCA	1
Dibromochloromethane	ND	0.118	0.118	ND	1.00	1.00	04/10/19	KCA	1
Dichlorodifluoromethane	0.475	0.202	0.202	2.35	1.00	1.00	04/10/19	KCA	1
Ethanol	17.9	0.531	0.531	33.7	1.00	1.00	04/10/19	KCA	1
Ethyl acetate	ND	0.278	0.278	ND	1.00	1.00	04/10/19	KCA	1
Ethylbenzene	0.581	0.230	0.230	2.52	1.00	1.00	04/10/19	KCA	1
Heptane	1.05	0.244	0.244	4.30	1.00	1.00	04/10/19	KCA	1
Hexachlorobutadiene	ND	0.094	0.094	ND	1.00	1.00	04/10/19	KCA	1
Hexane	2.35	0.284	0.284	8.28	1.00	1.00	04/10/19	KCA	1
Isopropylalcohol	0.750	0.407	0.407	1.84	1.00	1.00	04/10/19	KCA	1
Isopropylbenzene	0.238	0.204	0.204	1.17	1.00	1.00	04/10/19	KCA	1
m,p-Xylene	2.35	0.230	0.230	10.2	1.00	1.00	04/10/19	KCA	1
Methyl Ethyl Ketone	0.861	0.339	0.339	2.54	1.00	1.00	04/10/19	KCA	1
Methyl tert-butyl ether(MTBE)	ND	0.278	0.278	ND	1.00	1.00	04/10/19	KCA	1
Methylene Chloride	ND	0.864	0.864	ND	3.00	3.00	04/10/19	KCA	1
n-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	04/10/19	KCA	1
o-Xylene	0.977	0.230	0.230	4.24	1.00	1.00	04/10/19	KCA	1
Propylene	ND	0.581	0.581	ND	1.00	1.00	04/10/19	KCA	1
sec-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	04/10/19	KCA	1
Styrene	ND	0.235	0.235	ND	1.00	1.00	04/10/19	KCA	1
Tetrachloroethene	1.34	0.037	0.037	9.08	0.25	0.25	04/10/19	KCA	1
Tetrahydrofuran	1.95	0.339	0.339	5.75	1.00	1.00	04/10/19	KCA	1
Toluene	2.89	0.266	0.266	10.9	1.00	1.00	04/10/19	KCA	1
Trans-1,2-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	04/10/19	KCA	1
trans-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	04/10/19	KCA	1
Trichloroethene	0.047	0.037	0.037	0.25	0.20	0.20	04/10/19	KCA	1
Trichlorofluoromethane	0.264	0.178	0.178	1.48	1.00	1.00	04/10/19	KCA	1
Trichlorotrifluoroethane	ND	0.131	0.131	ND	1.00	1.00	04/10/19	KCA	1
Vinyl Chloride	ND	0.078	0.078	ND	0.20	0.20	04/10/19	KCA	1
<u>QA/QC Surrogates/Internals</u>									
% Bromofluorobenzene	100	%	%	100	%	%	04/10/19	KCA	1
% IS-1,4-Difluorobenzene	85	%	%	85	%	%	04/10/19	KCA	1
% IS-Bromochloromethane	82	%	%	82	%	%	04/10/19	KCA	1
% IS-Chlorobenzene-d5	90	%	%	90	%	%	04/10/19	KCA	1

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
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1 = This parameter is not certified by the primary accrediting authority (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 L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1

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:

The canister was received under no vacuum, therefore sample results may not be representative.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director

April 30, 2019

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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



Analysis Report

April 30, 2019

FOR: Attn: Erica Johnston
 Walden Environmental Engineering PLLC
 16 Spring Street
 Oyster Bay, NY 11771

Sample Information

Matrix: AIR
 Location Code: WALDENE
 Rush Request: Standard
 P.O.#: IMPL0115.6
 Canister Id: 23327

Custody Information

Collected by: EMJ, JKB,
 Received by: MCT
 Analyzed by: see "By" below

Date Time
 04/04/19 15:17
 04/08/19 15:26

Laboratory Data

SDG ID: GCC90508
 Phoenix ID: CC90523

Project ID: 218 LAKEVILLE RD
 Client ID: SS-10

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	0.729	0.729	ND	5.00	5.00	04/10/19	KCA	5
1,1,1-Trichloroethane	ND	0.917	0.917	ND	5.00	5.00	04/10/19	KCA	5
1,1,2,2-Tetrachloroethane	ND	0.729	0.729	ND	5.00	5.00	04/10/19	KCA	5
1,1,2-Trichloroethane	ND	0.917	0.917	ND	5.00	5.00	04/10/19	KCA	5
1,1-Dichloroethane	ND	1.24	1.24	ND	5.02	5.02	04/10/19	KCA	5
1,1-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	04/10/19	KCA	5
1,2,4-Trichlorobenzene	ND	0.674	0.674	ND	5.00	5.00	04/10/19	KCA	5
1,2,4-Trimethylbenzene	4.96	1.02	1.02	24.4	5.01	5.01	04/10/19	KCA	5
1,2-Dibromoethane(EDB)	ND	0.651	0.651	ND	5.00	5.00	04/10/19	KCA	5
1,2-Dichlorobenzene	ND	0.832	0.832	ND	5.00	5.00	04/10/19	KCA	5
1,2-Dichloroethane	ND	1.24	1.24	ND	5.02	5.02	04/10/19	KCA	5
1,2-dichloropropane	ND	1.08	1.08	ND	4.99	4.99	04/10/19	KCA	5
1,2-Dichlorotetrafluoroethane	ND	0.716	0.716	ND	5.00	5.00	04/10/19	KCA	5
1,3,5-Trimethylbenzene	1.11	1.02	1.02	5.45	5.01	5.01	04/10/19	KCA	5
1,3-Butadiene	ND	2.26	2.26	ND	5.00	5.00	04/10/19	KCA	5
1,3-Dichlorobenzene	ND	0.832	0.832	ND	5.00	5.00	04/10/19	KCA	5
1,4-Dichlorobenzene	ND	0.832	0.832	ND	5.00	5.00	04/10/19	KCA	5
1,4-Dioxane	ND	1.39	1.39	ND	5.01	5.01	04/10/19	KCA	5
2-Hexanone(MBK)	ND	1.22	1.22	ND	4.99	4.99	04/10/19	KCA	5
4-Ethyltoluene	1.54	1.02	1.02	7.57	5.01	5.01	04/10/19	KCA	5
4-Isopropyltoluene	ND	0.911	0.911	ND	5.00	5.00	04/10/19	KCA	5
4-Methyl-2-pentanone(MIBK)	ND	1.22	1.22	ND	4.99	4.99	04/10/19	KCA	5
Acetone	78.5	2.11	2.11	186	5.01	5.01	04/10/19	KCA	5
Acrylonitrile	ND	2.31	2.31	ND	5.01	5.01	04/10/19	KCA	5
Benzene	2.08	1.57	1.57	6.64	5.01	5.01	04/10/19	KCA	5
Benzyl chloride	ND	0.966	0.966	ND	5.00	5.00	04/10/19	KCA	5

Client ID: SS-10

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Bromodichloromethane	ND	0.747	0.747	ND	5.00	5.00	04/10/19	KCA	5
Bromoform	ND	0.484	0.484	ND	5.00	5.00	04/10/19	KCA	5
Bromomethane	ND	1.29	1.29	ND	5.01	5.01	04/10/19	KCA	5
Carbon Disulfide	1.66	1.61	1.61	5.17	5.01	5.01	04/10/19	KCA	5
Carbon Tetrachloride	ND	0.159	0.159	ND	1.00	1.00	04/10/19	KCA	5
Chlorobenzene	ND	1.09	1.09	ND	5.01	5.01	04/10/19	KCA	5
Chloroethane	ND	1.90	1.90	ND	5.01	5.01	04/10/19	KCA	5
Chloroform	5.46	1.02	1.02	26.6	4.98	4.98	04/10/19	KCA	5
Chloromethane	ND	2.42	2.42	ND	4.99	4.99	04/10/19	KCA	5
Cis-1,2-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	04/10/19	KCA	5
cis-1,3-Dichloropropene	ND	1.10	1.10	ND	4.99	4.99	04/10/19	KCA	5
Cyclohexane	ND	1.45	1.45	ND	4.99	4.99	04/10/19	KCA	5
Dibromochloromethane	ND	0.587	0.587	ND	5.00	5.00	04/10/19	KCA	5
Dichlorodifluoromethane	ND	1.01	1.01	ND	4.99	4.99	04/10/19	KCA	5
Ethanol	10.0	2.66	2.66	18.8	5.01	5.01	04/10/19	KCA	5
Ethyl acetate	ND	1.39	1.39	ND	5.01	5.01	04/10/19	KCA	5
Ethylbenzene	2.36	1.15	1.15	10.2	4.99	4.99	04/10/19	KCA	5
Heptane	2.60	1.22	1.22	10.6	5.00	5.00	04/10/19	KCA	5
Hexachlorobutadiene	ND	0.469	0.469	ND	5.00	5.00	04/10/19	KCA	5
Hexane	1.90	1.42	1.42	6.69	5.00	5.00	04/10/19	KCA	5
Isopropylalcohol	ND	2.04	2.04	ND	5.01	5.01	04/10/19	KCA	5
Isopropylbenzene	ND	1.02	1.02	ND	5.01	5.01	04/10/19	KCA	5
m,p-Xylene	11.2	1.15	1.15	48.6	4.99	4.99	04/10/19	KCA	5
Methyl Ethyl Ketone	6.72	1.70	1.70	19.8	5.01	5.01	04/10/19	KCA	5
Methyl tert-butyl ether(MTBE)	ND	1.39	1.39	ND	5.01	5.01	04/10/19	KCA	5
Methylene Chloride	ND	4.32	4.32	ND	15.0	15.0	04/10/19	KCA	5
n-Butylbenzene	ND	0.911	0.911	ND	5.00	5.00	04/10/19	KCA	5
o-Xylene	3.12	1.15	1.15	13.5	4.99	4.99	04/10/19	KCA	5
Propylene	ND	2.91	2.91	ND	5.01	5.01	04/10/19	KCA	5
sec-Butylbenzene	ND	0.911	0.911	ND	5.00	5.00	04/10/19	KCA	5
Styrene	ND	1.17	1.17	ND	4.98	4.98	04/10/19	KCA	5
Tetrachloroethene	1050	2.77	2.77	7120	18.8	18.8	04/10/19	KCA	75
Tetrahydrofuran	ND	1.70	1.70	ND	5.01	5.01	04/10/19	KCA	5
Toluene	9.43	1.33	1.33	35.5	5.01	5.01	04/10/19	KCA	5
Trans-1,2-Dichloroethene	ND	1.26	1.26	ND	4.99	4.99	04/10/19	KCA	5
trans-1,3-Dichloropropene	ND	1.10	1.10	ND	4.99	4.99	04/10/19	KCA	5
Trichloroethene	15.3	0.186	0.186	82.2	1.00	1.00	04/10/19	KCA	5
Trichlorofluoromethane	ND	0.891	0.891	ND	5.00	5.00	04/10/19	KCA	5
Trichlorotrifluoroethane	ND	0.653	0.653	ND	5.00	5.00	04/10/19	KCA	5
Vinyl Chloride	ND	0.391	0.391	ND	1.00	1.00	04/10/19	KCA	5
<u>QA/QC Surrogates/Internals</u>									
% Bromofluorobenzene (5x)	104	%	%	104	%	%	04/10/19	KCA	5
% IS-1,4-Difluorobenzene (5x)	83	%	%	83	%	%	04/10/19	KCA	5
% IS-Bromochloromethane (5x)	77	%	%	77	%	%	04/10/19	KCA	5
% IS-Chlorobenzene-d5 (5x)	85	%	%	85	%	%	04/10/19	KCA	5
% Bromofluorobenzene (75x)	100	%	%	100	%	%	04/10/19	KCA	75
% IS-1,4-Difluorobenzene (75x)	78	%	%	78	%	%	04/10/19	KCA	75
% IS-Bromochloromethane (75x)	76	%	%	76	%	%	04/10/19	KCA	75
% IS-Chlorobenzene-d5 (75x)	84	%	%	84	%	%	04/10/19	KCA	75

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
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1 = This parameter is not certified by the primary accrediting authority (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 L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1

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

Comments:

The canister was received under no vacuum, therefore sample results may not be representative.

An elevated reporting level was reported for TO15 due to a matrix interference of non target compounds.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director

April 30, 2019

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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



Analysis Report

April 30, 2019

FOR: Attn: Erica Johnston
 Walden Environmental Engineering PLLC
 16 Spring Street
 Oyster Bay, NY 11771

Sample Information

Matrix: AIR
 Location Code: WALDENE
 Rush Request: Standard
 P.O.#: IMPL0115.6
 Canister Id: 28557

Custody Information

Collected by: EMJ, JKB,
 Received by: MCT
 Analyzed by: see "By" below

Date Time
 04/04/19 12:30
 04/08/19 15:26

Laboratory Data

SDG ID: GCC90508
 Phoenix ID: CC90524

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	0.729	0.729	ND	5.00	5.00	04/10/19	KCA	5
1,1,1-Trichloroethane	ND	0.917	0.917	ND	5.00	5.00	04/10/19	KCA	5
1,1,2,2-Tetrachloroethane	ND	0.729	0.729	ND	5.00	5.00	04/10/19	KCA	5
1,1,2-Trichloroethane	ND	0.917	0.917	ND	5.00	5.00	04/10/19	KCA	5
1,1-Dichloroethane	ND	1.24	1.24	ND	5.02	5.02	04/10/19	KCA	5
1,1-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	04/10/19	KCA	5
1,2,4-Trichlorobenzene	ND	0.674	0.674	ND	5.00	5.00	04/10/19	KCA	5
1,2,4-Trimethylbenzene	ND	1.02	1.02	ND	5.01	5.01	04/10/19	KCA	5
1,2-Dibromoethane(EDB)	ND	0.651	0.651	ND	5.00	5.00	04/10/19	KCA	5
1,2-Dichlorobenzene	ND	0.832	0.832	ND	5.00	5.00	04/10/19	KCA	5
1,2-Dichloroethane	ND	1.24	1.24	ND	5.02	5.02	04/10/19	KCA	5
1,2-dichloropropane	ND	1.08	1.08	ND	4.99	4.99	04/10/19	KCA	5
1,2-Dichlorotetrafluoroethane	ND	0.716	0.716	ND	5.00	5.00	04/10/19	KCA	5
1,3,5-Trimethylbenzene	ND	1.02	1.02	ND	5.01	5.01	04/10/19	KCA	5
1,3-Butadiene	ND	2.26	2.26	ND	5.00	5.00	04/10/19	KCA	5
1,3-Dichlorobenzene	ND	0.832	0.832	ND	5.00	5.00	04/10/19	KCA	5
1,4-Dichlorobenzene	ND	0.832	0.832	ND	5.00	5.00	04/10/19	KCA	5
1,4-Dioxane	ND	1.39	1.39	ND	5.01	5.01	04/10/19	KCA	5
2-Hexanone(MBK)	ND	1.22	1.22	ND	4.99	4.99	04/10/19	KCA	5
4-Ethyltoluene	ND	1.02	1.02	ND	5.01	5.01	04/10/19	KCA	5
4-Isopropyltoluene	ND	0.911	0.911	ND	5.00	5.00	04/10/19	KCA	5
4-Methyl-2-pentanone(MIBK)	ND	1.22	1.22	ND	4.99	4.99	04/10/19	KCA	5
Acetone	3.58	2.11	2.11	8.50	5.01	5.01	04/10/19	KCA	5
Acrylonitrile	ND	2.31	2.31	ND	5.01	5.01	04/10/19	KCA	5
Benzene	ND	1.57	1.57	ND	5.01	5.01	04/10/19	KCA	5
Benzyl chloride	ND	0.966	0.966	ND	5.00	5.00	04/10/19	KCA	5

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	0.747	0.747	ND	5.00	5.00	04/10/19	KCA	5
Bromoform	ND	0.484	0.484	ND	5.00	5.00	04/10/19	KCA	5
Bromomethane	ND	1.29	1.29	ND	5.01	5.01	04/10/19	KCA	5
Carbon Disulfide	ND	1.61	1.61	ND	5.01	5.01	04/10/19	KCA	5
Carbon Tetrachloride	ND	0.159	0.159	ND	1.00	1.00	04/10/19	KCA	5
Chlorobenzene	ND	1.09	1.09	ND	5.01	5.01	04/10/19	KCA	5
Chloroethane	ND	1.90	1.90	ND	5.01	5.01	04/10/19	KCA	5
Chloroform	1.60	1.02	1.02	7.81	4.98	4.98	04/10/19	KCA	5
Chloromethane	ND	2.42	2.42	ND	4.99	4.99	04/10/19	KCA	5
Cis-1,2-Dichloroethene	85.9	0.252	0.252	340	1.00	1.00	04/10/19	KCA	5
cis-1,3-Dichloropropene	ND	1.10	1.10	ND	4.99	4.99	04/10/19	KCA	5
Cyclohexane	ND	1.45	1.45	ND	4.99	4.99	04/10/19	KCA	5
Dibromochloromethane	ND	0.587	0.587	ND	5.00	5.00	04/10/19	KCA	5
Dichlorodifluoromethane	ND	1.01	1.01	ND	4.99	4.99	04/10/19	KCA	5
Ethanol	2.71	2.66	2.66	5.10	5.01	5.01	04/10/19	KCA	5
Ethyl acetate	ND	1.39	1.39	ND	5.01	5.01	04/10/19	KCA	5
Ethylbenzene	ND	1.15	1.15	ND	4.99	4.99	04/10/19	KCA	5
Heptane	ND	1.22	1.22	ND	5.00	5.00	04/10/19	KCA	5
Hexachlorobutadiene	ND	0.469	0.469	ND	5.00	5.00	04/10/19	KCA	5
Hexane	ND	1.42	1.42	ND	5.00	5.00	04/10/19	KCA	5
Isopropylalcohol	ND	2.04	2.04	ND	5.01	5.01	04/10/19	KCA	5
Isopropylbenzene	ND	1.02	1.02	ND	5.01	5.01	04/10/19	KCA	5
m,p-Xylene	1.73	1.15	1.15	7.51	4.99	4.99	04/10/19	KCA	5
Methyl Ethyl Ketone	ND	1.70	1.70	ND	5.01	5.01	04/10/19	KCA	5
Methyl tert-butyl ether(MTBE)	ND	1.39	1.39	ND	5.01	5.01	04/10/19	KCA	5
Methylene Chloride	ND	4.32	4.32	ND	15.0	15.0	04/10/19	KCA	5
n-Butylbenzene	ND	0.911	0.911	ND	5.00	5.00	04/10/19	KCA	5
o-Xylene	ND	1.15	1.15	ND	4.99	4.99	04/10/19	KCA	5
Propylene	ND	2.91	2.91	ND	5.01	5.01	04/10/19	KCA	5
sec-Butylbenzene	ND	0.911	0.911	ND	5.00	5.00	04/10/19	KCA	5
Styrene	ND	1.17	1.17	ND	4.98	4.98	04/10/19	KCA	5
Tetrachloroethene	1840	2.77	2.77	12500	18.8	18.8	04/10/19	KCA	75
Tetrahydrofuran	ND	1.70	1.70	ND	5.01	5.01	04/10/19	KCA	5
Toluene	2.66	1.33	1.33	10.0	5.01	5.01	04/10/19	KCA	5
Trans-1,2-Dichloroethene	4.31	1.26	1.26	17.1	4.99	4.99	04/10/19	KCA	5
trans-1,3-Dichloropropene	ND	1.10	1.10	ND	4.99	4.99	04/10/19	KCA	5
Trichloroethene	49.5	0.186	0.186	266	1.00	1.00	04/10/19	KCA	5
Trichlorofluoromethane	ND	0.891	0.891	ND	5.00	5.00	04/10/19	KCA	5
Trichlorotrifluoroethane	ND	0.653	0.653	ND	5.00	5.00	04/10/19	KCA	5
Vinyl Chloride	ND	0.391	0.391	ND	1.00	1.00	04/10/19	KCA	5
<u>QA/QC Surrogates/Internals</u>									
% Bromofluorobenzene (5x)	104	%	%	104	%	%	04/10/19	KCA	5
% IS-1,4-Difluorobenzene (5x)	84	%	%	84	%	%	04/10/19	KCA	5
% IS-Bromochloromethane (5x)	80	%	%	80	%	%	04/10/19	KCA	5
% IS-Chlorobenzene-d5 (5x)	85	%	%	85	%	%	04/10/19	KCA	5
% Bromofluorobenzene (75x)	100	%	%	100	%	%	04/10/19	KCA	75
% IS-1,4-Difluorobenzene (75x)	79	%	%	79	%	%	04/10/19	KCA	75
% IS-Bromochloromethane (75x)	78	%	%	78	%	%	04/10/19	KCA	75
% IS-Chlorobenzene-d5 (75x)	84	%	%	84	%	%	04/10/19	KCA	75

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
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1 = This parameter is not certified by the primary accrediting authority (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 L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1

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

Comments:

The canister was received under no vacuum, therefore sample results may not be representative.

An elevated reporting level was reported for TO15 due to a matrix interference of non target compounds.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director

April 30, 2019

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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



Canister Sampling Information

April 30, 2019

FOR: Attn: Erica Johnston
 Walden Environmental Engineering PLLC
 16 Spring Street
 Oyster Bay, NY 11771

Location Code: WALDENE

SDG I.D.: GCC90508

Project ID: 218 LAKEVILLE RD

Client Id	Lab Id	Canister		Reg. Id	Chk Out Date	Laboratory					Field			
		Id	Type			Out Hg	In Hg	Out Flow	In Flow	Flow RPD	Start Hg	End Hg	Sampling Start Date	Sampling End Date
IA-4	CC90508	492	6.0L	5354	04/04/19	-30	-1	3.6	3.5	2.8	-30	-3	04/04/19 13:50	04/05/19 13:45
SS-3	CC90509	21370	6.0L	2860	04/04/19	-30	0	3.6	3.8	5.4	-30	-3	04/04/19 13:54	04/05/19 12:23
SS-7	CC90510	11291	6.0L	7017	04/04/19	-30	-1	3.6	3.5	2.8	-30	-2	04/04/19 13:35	04/05/19 12:59
SS-4	CC90511	230	6.0L	4490	04/04/19	-30	-1	3.6	3.6	0.0	-30	-4	04/04/19 13:49	04/05/19 14:19
SS-DUP	CC90512	215	6.0L	5389	04/04/19	-30	-1	3.6	3.6	0.0	-30	-3	04/04/19 14:03	04/05/19 12:32
IA-7	CC90513	23326	6.0L	2869	04/04/19	-30	0	3.6	3.5	2.8	-30	-2	04/04/19 13:38	04/05/19 12:38
IA-1	CC90514	21365	6.0L	5400	04/04/19	-30	-2	3.6	3.5	2.8	-29	-3	04/04/19 14:04	04/05/19 12:33
IA-2	CC90515	11292	6.0L	5656	04/04/19	-30	-2	3.6	3.5	2.8	-30	-4	04/04/19 13:58	04/05/19 13:49
IA-3	CC90516	23352	6.0L	2984	04/04/19	-30	0	3.6	3.3	8.7	-30	-3	04/04/19 13:53	04/05/19 13:48
SS-2	CC90517	219	6.0L	6975	04/04/19	-30	-2	3.6	3.6	0.0	-29	-3	04/04/19 13:57	04/05/19 12:48
AA-DUP	CC90518	28600	6.0L	1550	04/04/19	-30	0	3.6	3.8	5.4	-30	-3	04/04/19 14:10	04/05/19 12:42
AA-1	CC90519	19854	6.0L	5350	04/04/19	-30	0	3.6	3.7	2.7	-30	-4	04/04/19 14:11	04/05/19 13:43
AA-2	CC90520	21341	6.0L	2868	04/04/19	-30	0	3.6	3.7	2.7	-30	-2	04/04/19 14:14	04/05/19 12:44
IA-10	CC90521	13635	6.0L	5647	04/04/19	-30	-2	3.6	5.7	45.2	-30	-4	04/04/19 16:59	04/05/19 15:51



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Canister Sampling Information

April 30, 2019

FOR: Attn: Erica Johnston
 Walden Environmental Engineering PLLC
 16 Spring Street
 Oyster Bay, NY 11771

Location Code: WALDENE

SDG I.D.: GCC90508

Project ID: 218 LAKEVILLE RD

Client Id	Lab Id	Canister		Reg. Id	Chk Out Date	Laboratory					Field			
		Id	Type			Out Hg	In Hg	Out Flow	In Flow	Flow RPD	Start Hg	End Hg	Sampling Start Date	Sampling End Date
IA-DUP	CC90522	156	6.0L	0828	04/04/19	-30	0	3.6	4.1	13.0	-30	0	04/04/19 13:46	04/05/19 12:20
SS-10	CC90523	23327	6.0L	1309	04/04/19	-30	0	3.6	4.2	15.4	-30	0	04/04/19 16:57	04/05/19 15:17
SS-1	CC90524	28557	6.0L	2929	04/04/19	-30	0	3.6	3.9	8.0	-30	-1	04/04/19 14:02	04/05/19 12:30



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QA/QC Report

April 30, 2019

QA/QC Data

SDG I.D.: GCC90508

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 474160 (ppbv), QC Sample No: CC90508 (CC90508, CC90509 (5X), CC90511 (5X), CC90512 (5X), CC90513, CC90514, CC90515, CC90516, CC90517 (5X), CC90518, CC90519, CC90520, CC90521, CC90522, CC90523 (5X), CC90524 (5X))												
<u>Volatiles</u>												
1,1,1,2-Tetrachloroethane	ND	0.150	ND	1.03	116	ND	ND	ND	ND	NC	70 - 130	25
1,1,1-Trichloroethane	ND	0.180	ND	0.98	117	ND	ND	ND	ND	NC	70 - 130	25
1,1,2,2-Tetrachloroethane	ND	0.150	ND	1.03	109	ND	ND	ND	ND	NC	70 - 130	25
1,1,2-Trichloroethane	ND	0.180	ND	0.98	105	ND	ND	ND	ND	NC	70 - 130	25
1,1-Dichloroethane	ND	0.250	ND	1.01	111	ND	ND	ND	ND	NC	70 - 130	25
1,1-Dichloroethene	ND	0.050	ND	0.20	110	ND	ND	ND	ND	NC	70 - 130	25
1,2,4-Trichlorobenzene	ND	0.130	ND	0.96	154	ND	ND	ND	ND	NC	70 - 130	25
1,2,4-Trimethylbenzene	ND	0.200	ND	0.98	113	18.5	18.3	3.77	3.73	1.1	70 - 130	25
1,2-Dibromoethane(EDB)	ND	0.130	ND	1.00	111	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichlorobenzene	ND	0.170	ND	1.02	112	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichloroethane	ND	0.250	ND	1.01	112	ND	ND	ND	ND	NC	70 - 130	25
1,2-dichloropropane	ND	0.220	ND	1.02	107	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichlorotetrafluoroethane	ND	0.140	ND	0.98	112	ND	ND	ND	ND	NC	70 - 130	25
1,3,5-Trimethylbenzene	ND	0.200	ND	0.98	110	5.16	5.26	1.05	1.07	1.9	70 - 130	25
1,3-Butadiene	ND	0.450	ND	0.99	112	ND	ND	ND	ND	NC	70 - 130	25
1,3-Dichlorobenzene	ND	0.170	ND	1.02	111	ND	ND	ND	ND	NC	70 - 130	25
1,4-Dichlorobenzene	ND	0.170	ND	1.02	110	ND	ND	ND	ND	NC	70 - 130	25
1,4-Dioxane	ND	0.280	ND	1.01	110	ND	ND	ND	ND	NC	70 - 130	25
2-Hexanone(MBK)	ND	0.240	ND	0.98	115	ND	ND	ND	ND	NC	70 - 130	25
4-Ethyltoluene	ND	0.200	ND	0.98	111	4.96	4.68	1.01	0.953	NC	70 - 130	25
4-Isopropyltoluene	ND	0.180	ND	0.99	112	ND	ND	ND	ND	NC	70 - 130	25
4-Methyl-2-pentanone(MIBK)	ND	0.240	ND	0.98	121	ND	ND	ND	ND	NC	70 - 130	25
Acetone	ND	0.420	ND	1.00	108	17.6	17.4	7.42	7.35	0.9	70 - 130	25
Acrylonitrile	ND	0.460	ND	1.00	108	ND	ND	ND	ND	NC	70 - 130	25
Benzene	ND	0.310	ND	0.99	115	1.57	1.57	0.491	0.492	NC	70 - 130	25
Benzyl chloride	ND	0.190	ND	0.98	113	ND	ND	ND	ND	NC	70 - 130	25
Bromodichloromethane	ND	0.150	ND	1.00	114	ND	ND	ND	ND	NC	70 - 130	25
Bromoform	ND	0.097	ND	1.00	158	ND	ND	ND	ND	NC	70 - 130	25
Bromomethane	ND	0.260	ND	1.01	109	ND	ND	ND	ND	NC	70 - 130	25
Carbon Disulfide	ND	0.320	ND	1.00	108	ND	ND	ND	ND	NC	70 - 130	25
Carbon Tetrachloride	ND	0.032	ND	0.20	129	0.52	0.55	0.083	0.087	NC	70 - 130	25
Chlorobenzene	ND	0.220	ND	1.01	102	ND	ND	ND	ND	NC	70 - 130	25
Chloroethane	ND	0.380	ND	1.00	110	ND	ND	ND	ND	NC	70 - 130	25
Chloroform	ND	0.200	ND	0.98	111	ND	ND	ND	ND	NC	70 - 130	25
Chloromethane	ND	0.480	ND	0.99	111	1.29	1.27	0.625	0.614	NC	70 - 130	25
Cis-1,2-Dichloroethene	ND	0.256	ND	1.01	114	0.22	ND	0.055	ND	NC	70 - 130	25
cis-1,3-Dichloropropene	ND	0.220	ND	1.00	115	ND	ND	ND	ND	NC	70 - 130	25
Cyclohexane	ND	0.290	ND	1.00	115	2.17	2.26	0.632	0.658	NC	70 - 130	25
Dibromochloromethane	ND	0.120	ND	1.02	139	ND	ND	ND	ND	NC	70 - 130	25
Dichlorodifluoromethane	ND	0.200	ND	0.99	114	2.36	2.31	0.478	0.468	NC	70 - 130	25

QA/QC Data

SDG I.D.: GCC90508

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	0.530	ND	1.00	145	27.5	26.6	14.6	14.1	3.5	70 - 130	25
Ethyl acetate	ND	0.280	ND	1.01	119	ND	ND	ND	ND	NC	70 - 130	25
Ethylbenzene	ND	0.230	ND	1.00	107	2.23	2.23	0.513	0.515	NC	70 - 130	25
Heptane	ND	0.240	ND	0.98	109	3.37	3.51	0.824	0.856	NC	70 - 130	25
Hexachlorobutadiene	ND	0.094	ND	1.00	133	ND	ND	ND	ND	NC	70 - 130	25
Hexane	ND	0.280	ND	0.99	114	6.73	6.66	1.91	1.89	1.1	70 - 130	25
Isopropylalcohol	ND	0.410	ND	1.01	107	1.88	1.75	0.767	0.713	NC	70 - 130	25
Isopropylbenzene	ND	0.200	ND	0.98	104	1.12	1.10	0.227	0.224	NC	70 - 130	25
m,p-Xylene	ND	0.230	ND	1.00	111	8.94	8.68	2.06	2.00	3.0	70 - 130	25
Methyl Ethyl Ketone	ND	0.340	ND	1.00	113	3.01	2.86	1.02	0.969	NC	70 - 130	25
Methyl tert-butyl ether(MTBE)	ND	0.280	ND	1.01	115	ND	ND	ND	ND	NC	70 - 130	25
Methylene Chloride	ND	0.860	ND	2.99	108	ND	ND	ND	ND	NC	70 - 130	25
n-Butylbenzene	ND	0.180	ND	0.99	114	ND	ND	ND	ND	NC	70 - 130	25
o-Xylene	ND	0.230	ND	1.00	107	3.87	3.79	0.892	0.873	NC	70 - 130	25
Propylene	ND	0.580	ND	1.00	113	ND	ND	ND	ND	NC	70 - 130	25
sec-Butylbenzene	ND	0.180	ND	0.99	107	ND	ND	ND	ND	NC	70 - 130	25
Styrene	ND	0.230	ND	0.98	112	ND	ND	ND	ND	NC	70 - 130	25
Tetrachloroethene	ND	0.037	ND	0.25	107	16.9	16.6	2.49	2.45	1.6	70 - 130	25
Tetrahydrofuran	ND	0.340	ND	1.00	120	5.13	5.04	1.74	1.71	1.7	70 - 130	25
Toluene	ND	0.270	ND	1.02	109	9.26	9.00	2.46	2.39	2.9	70 - 130	25
Trans-1,2-Dichloroethene	ND	0.250	ND	0.99	114	ND	ND	ND	ND	NC	70 - 130	25
trans-1,3-Dichloropropene	ND	0.220	ND	1.00	118	ND	ND	ND	ND	NC	70 - 130	25
Trichloroethene	ND	0.037	ND	0.20	104	0.23	0.27	0.043	0.050	NC	70 - 130	25
Trichlorofluoromethane	ND	0.180	ND	1.01	111	1.38	1.24	0.245	0.221	NC	70 - 130	25
Trichlorotrifluoroethane	ND	0.130	ND	1.00	111	ND	ND	ND	ND	NC	70 - 130	25
Vinyl Chloride	ND	0.078	ND	0.20	111	ND	ND	ND	ND	NC	70 - 130	25
% Bromofluorobenzene	100	%	100	%	101	102	98	102	98	NC	70 - 130	25
% IS-1,4-Difluorobenzene	95	%	95	%	94	89	91	89	91	NC	60 - 140	25
% IS-Bromochloromethane	98	%	98	%	96	88	91	88	91	NC	60 - 140	25
% IS-Chlorobenzene-d5	94	%	94	%	99	92	95	92	95	NC	60 - 140	25

QA/QC Batch 474357 (ppbv), QC Sample No: CC90523 (CC90509 (75X) , CC90511 (75X) , CC90512 (75X) , CC90517 (300X) , CC90523 (75X) , CC90524 (75X))

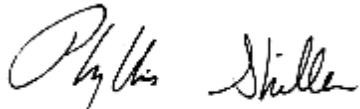
Volatiles

Cis-1,2-Dichloroethene	ND	0.256	ND	1.01	120	ND	ND	ND	ND	NC	70 - 130	25
Tetrachloroethene	ND	2.77	ND	18.8	107	7120	6980	1050	1030	1.9	70 - 130	25
Trichloroethene	ND	2.77	ND	14.9	105	62.8	60.1	11.7	11.2	NC	70 - 130	25
% Bromofluorobenzene	97		97		101	100	101	100	101	NC	70 - 130	25
% IS-1,4-Difluorobenzene	91	%	91	%	96	78	78	78	78	NC	60 - 140	25
% IS-Bromochloromethane	93	%	93	%	95	76	76	76	76	NC	60 - 140	25
% IS-Chlorobenzene-d5	93	%	93	%	103	84	83	84	83	NC	60 - 140	25

I = This parameter is outside laboratory LCS/LCSD specified recovery 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
 April 30, 2019

Sample Criteria Exceedances Report

GCC90508 - WALDENE

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
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*** No Data to Display ***

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance 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.



587 East Middle Turnpike P.O. Box 370, Meriden, 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. # _____ Page 1 of 3

Data Delivery:
 Fax #:
 Email: Nbrow & Walden Associates, Conn
 Phone #: 860-24-7200

Report to: Erica Johnston
 Customer: Walden Assoc.
 Address: 16 Spring Street
Oyster Bay, NY 11771

Invoice to: Nora Brew, P.E.
Walden Associates
nbrow@walden-associates.com
 Sampled by: EMS - STB + MGT

Project Name: 218 Leckerville Road
 Requested Deliverable: RCP ASP CAT B
 MCP NJ Deliverables
 State where samples collected: NY

Phoenix ID #	Client Sample ID	THIS SECTION FOR LAB USE ONLY										MATRIX		ANALYSES			
		Canister ID #	Canister Size (L)	Outgoing Canister Pressure (in Hg)	Incoming Canister Pressure (in Hg)	Flow Regulator ID #	Flow Controller Scintling (ml/min)	Sampling Start Time	Sampling End Time	Sample Start Date	Canister Pressure at Start (in Hg)	Canister Pressure at End (in Hg)	Ambient/Indoor Air	Soil Gas	Grab (G) Composite (C)	TO-14	TO-15
90508	IA-4	492	6.0	-30	-1	5354	3.6	4/11/14	13:50	13:45	4/11/14	-30	-3	X	G	X	
90509	SS-3	21370			0	2860		13:54	12:23	4/11/14	-30	-3	X	G	X		
90510	SS-7	11291			-1	7017		13:55	12:59	4/11/14	-30	-2	X	G	X		
90511	SS-4	2330 21375			-1	4490		13:49	11:19	4/11/14	-30	-4	X	G	X		
90512	SS-Dup	21375			-1	5389		14:03	12:32	4/11/14	-30	-3	X	G	X		
90513	IA-7	23326			0	2869		13:58	12:58	4/11/14	-30	-2	X	G	X		
90514	IA-1	21365			-2	5400		14:04	12:33	4/11/14	-29	-3	X	G	X		
90515	IA-2	11292			-2	5856		13:58	13:49	4/11/14	-30	-4	X	G	X		
90516	IA-3	23352			0	2884		13:53	13:48	4/11/14	-30	-3	X	G	X		
90517	SS-2	219			-2	6875		13:57	12:46	4/11/14	-29	-3	X	G	X		

Relinquished By: [Signature] Date: 4/8/14
 Accepted By: [Signature] Date: 4/8/14
 Data Format: Excel Equis Other
 Turnaround Time: 15.0

Requested Criteria: IND-CERT
 SPECIAL INSTRUCTIONS: send email to nbrow@walden-associates.com with data - standard turn around time

Requested Criteria: (10) (G) (24hr)

Quote Number: _____ Signature: [Signature] Date: 4/5/14

24 Hour 48 Hour 72 Hour Standard
 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.



CHAIN OF CUSTODY RECORD
AIR ANALYSES

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

P.O. # _____ Page 2 of 3

Data Delivery:
 Fax #:
 Email: nbrewc.walden@phoenixlabs.com
 Phone #: 516-624-7200

Report to: Erica Johnston
Customer: Walden Assoc
Address: 16 Spring Street
Oyster Bay, NY 11771

Invoice to: Nora Brew, PE.
nbrewc.walden@phoenixlabs.com

Sampled by: EMS - JKS - MCT

Project Name: 218 Lakeville Road
Requested Deliverable: RCP ASP CAT B
MCP NJ Deliverables
State where samples collected: NY

Phoenix ID #	Client Sample ID	THIS SECTION FOR LAB USE ONLY										MATRIX			ANALYSES	
		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	SO ₂ Gas	Grab (G) Composite (C)	TO-14
90518	AA-DUP	28800	6.0	-30	0	1660	2.6	14:10	12:42	4/4/14	-30	-3	X			X
90519	AA-1	19854			0	5360		14:11	13:43	4/4/14	-30	-4	X			X
90520	AA-2	21341			0	2868		14:14	12:41	4/4/14	-30	-2	X			X
90521	IA-10	23343			0	1698		16:59	15:21	4/4/14	-30	-4	X			X
90522	IA-DUP	13635			0	5387		13:46	12:20	4/4/14	-30	0	X			X
90523	SS-10	156			0	0828		16:57	15:17	4/4/14	-30	0	X			X
90524	SS-1	23327			0	1309		14:02	12:30	4/4/14	-30	-1	X			X

Relinquished by: [Signature]
Date: 4/8/14
Time: 11:00

Accepted by: [Signature]
Date: 4/18/14
Time: 15:26

Turnaround Time: 24 Hour 48 Hour 72 Hour Standard

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: [Signature]
Date: 4/5/14

SPECIAL INSTRUCTIONS, OC REQUIREMENTS, REGULATORY INFORMATION: (10)(6.0)(344F)
IND - CERT
send data + lab reports via email to nbrewc.walden@phoenixlabs.com
cans 23343, 23340 + 21327 not used



307 East Maple, Tumble, P.O. Box 370, 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. # _____
 Data Delivery: Fax #: _____
 Email: _____
 Phone #: _____

Report to: *Eric Johnston*
 Customer: *Walden Assoc*
 Address: _____

Invoice to: _____
 Project Name: _____
 Requested Deliverable: RCP ASP CAT B
 MCP NJ Deliverables
 State where samples collected: _____

Matrix	Soil Gas	Grab (G) Composite (C)	TO-14	TO-15
Ambient/Indoor Air				

Canister ID #	Canister Size (L)	Ongoing 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)
<i>28563</i>	<i>6.0</i>	<i>-30</i>	<i>4981</i>	<i>3.6</i>						
<i>488</i>			<i>2875</i>							
<i>28598</i>			<i>2925</i>							
<i>4978</i>			<i>2975</i>							

Relinquished by: *[Signature]*
 Date: *4/8/19*
 Time: *11:00*
 Accepted by: *[Signature]*
 Date: *4/8/19*
 Time: *5:26*
 Data Format: Excel Equis Other
 Turnaround Time: _____
 24 Hour 48 Hour 72 Hour Standard
 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.

Requested Criteria: _____
 Quote Number: _____
 Signature: _____
 Date: _____

CANISTERS NOT USED

END-CERT

SPECIAL INSTRUCTIONS/LOG REQUIREMENTS, REGULATORY INFORMATION: *(8165) (2444)*

GLL90508

Christine Paradise

From: Bobbi Aloisa
Sent: Thursday, April 04, 2019 6:31 PM
To: Shannon Wilhelm; Lori Bailey; Christine Paradise; Tara Banning
Subject: Walden Associates...

They have 24 air cans coming back in Friday or early next week

2 #'s are written wrong on the chain

They are incorrectly written as 0230 and 0215

They should be logged back out as 230 and 215

**Bobbi Aloisa
Vice President
Director of Client Services
Phoenix Environmental Laboratories
587 East Middle Turnpike
Manchester, CT 06040
Ph: 860-645-8728**

Sarah Bell

From: Erica M Johnston <ejohnston@walden-associates.com>
Sent: Wednesday, April 10, 2019 10:23 AM
To: Sarah Bell
Subject: FW: Phoenix Labs - GCC90508, 218 LAKEVILLE RD - COC Acknowledgement

Hi Sarah,

Please see below.

From: Erica M Johnston <ejohnston@walden-associates.com>
Sent: Wednesday, April 10, 2019 10:21 AM
To: 'Client Services' <clientservices@phoenixlabs.com>
Subject: RE: Phoenix Labs - GCC90508, 218 LAKEVILLE RD - COC Acknowledgement

Can you please include PO# IMPL0115.6? Thanks.

From: Client Services <clientservices@phoenixlabs.com>
Sent: Monday, April 08, 2019 9:10 PM
To: ejohnston@walden-associates.com
Subject: Phoenix Labs - GCC90508, 218 LAKEVILLE RD - COC Acknowledgement

Erica,

Please email client services only if you have a Price Quote# for this SDG, a Quote# was not listed on the COC.

Please email client services only if you Require a PO# on your Invoice, a PO# was not listed on the COC.

GCC90508 Criteria:
None.

Please email client services only if you require criteria different than what is listed.

Delivery group GCC90508 (218 LAKEVILLE RD) has been logged in for the following samples:

Phoenix Id	Client Id
CC90508	IA-4
CC90509	SS-3
CC90510	SS-7
CC90511	SS-4
CC90512	SS-DUP
CC90513	IA-7
CC90514	IA-1
CC90515	IA-2
CC90516	IA-3
CC90517	SS-2

CC90518	AA-DUP
CC90519	AA-1
CC90520	AA-2
CC90521	IA-10
CC90522	IA-DUP
CC90523	SS-10
CC90524	SS-1

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

Phoenix Environmental Laboratories, Inc.
587 East Middle Turnpike
P.O. Box 370
Manchester, CT 06374
Tel. (860) 645-1102
Fax. (860) 645-0823
www.phoenixlabs.com

Please do not reply to this email.
cc:'d:michael@phoenixlabs.com;ejohnston@walden-associates.com;greg@phoenixlabs.com



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

Client: Walden Environmental Engineering PLLC

218 LAKEVILLE RD

Laboratory Project: GCC90508

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 - Indicates an estimated value, may indicate one of the following, depending on the situation:
a) The reported value is estimated and below the MDL
b) Used when estimating a concentration for TIC where a 1:1 response is assumed or when the result indicates the presence of a compound that meets the identification criteria, but the results is less than the quantitation limit, but greater than zero.
c) QC associated with this analyte is within warning limits.

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.

L - Biased Low

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.

Q - For TICS, this compound was quantitated using a calibration curve. This compound is part of the instrument method, but not part of the client target list.

P - Percent difference is greater than 25% between the two GC columns and the lower result is reported.



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



SDG: GCC90508

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: CC90508 LCS

All LCS recoveries met criteria with the following exceptions: Ethanol 145%, Dibromochloromethane 139%, Bromoform 158%, 1,2, Trichlorobenzene 154%, Hexachlorobutadiene 133%

Sample: CC90523 LCS

All LCS recoveries met criteria with the following exceptions: Chloromethane 132%, 1,3-Butadiene 133%, Ethanol 161%, Acetone 132%, Isopropylalcohol 131%, Acrylonitrile 142%, Methylene Chloride 134%, Tetrahydrofuran 134%, Carbon Tetrachloride 151%, Cyclohexane 135%, 4-Methyl-2-pentanone(MIBK) 132%, Dibromochloromethane 145%, Bromoform 160%, Benzyl chloride 43%, 1,2,4-Trichlorobenzene 146%. No bias is suspected, samples associated with this

LCS compounds reported are :Cis-1,2-Dichloroethene, Trichloroethene, Tetrachloroethane,

Form 4 (Method Blank):

File: CHEM20 0409_19.D

All compounds were non-detect with the following exceptions:

File: CHEM20 0409_46.D

All compounds were non-detect with the following exceptions:

Form 5 (Tune):

File: CHEM20 0409_02.D

All Tune criteria was met with the following exceptions: None.

File: CHEM20 0409_14.D

All Tune criteria was met with the following exceptions: None.

File: CHEM20 0409_41.D

All Tune criteria was met with the following exceptions: None.

Form 6 (Initial Calibration):

Calibration: CHEM20 04/09/19 - 04/09/19

100% of method compounds met criteria.

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

Calibration: CHEM20 04/09/19 - 04/09/19

100% of method compounds met criteria.



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



SDG: GCC90508

Volatile Air Conformance / Non-Conformance Summary

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

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

Form 7 (Continuing Calibration):

File: CHEM20 0409_14.D (Opening)

96% of method compounds met criteria.

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

File: CHEM20 0409_41.D (Opening)

96% of method compounds met criteria.

The following compounds did not meet maximum % deviations: Ethanol -35.8% (30), Isopropylalcohol -32.5% (30), Acrylonitrile -79.2% (30), 1,2,4-Trichlorobenzene 46.5% (30)

Form 8 (Internal Standard and Retention Time):

File: CHEM20 - 0409_14.D Full

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

File: CHEM20 - 0409_14.D Sim

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

File: CHEM20 - 0409_41.D Full

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

File: CHEM20 - 0409_41.D Sim

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

04/25/19

Alejandro Paredes

Project Manager

2C
AIR SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: Phoenix Environmental Labs Client: WALDENE
 Lab Code: Phoenix Case No.: _____ SDG: GCC90508
 QC Batch Id: 474160 QC Sample Id: CC90508

	CLIENT ID	LAB ID	SMC1 BFB #			TOT OUT
01	CC90508 LCS	CC90508 LCS	101			0
02	CC90508 BLANK	CC90508 BLANK	100			0
03	IA-4	CC90508	102			0
04	IA-4 DUP	CC90508 DUP	98			0
05	IA-7	CC90513	103			0
06	IA-1	CC90514	101			0
07	IA-2	CC90515	100			0
08	IA-3	CC90516	103			0
09	AA-DUP	CC90518	99			0
10	AA-1	CC90519	100			0
11	AA-2	CC90520	100			0
12	IA-10	CC90521	102			0
13	IA-DUP	CC90522	100			0
14	SS-3 5X	CC90509 5X	105			0
15	SS-4 5X	CC90511 5X	106			0
16	SS-DUP 5X	CC90512 5X	102			0
17	SS-2 5X	CC90517 5X	105			0
18	SS-10 5X	CC90523 5X	104			0
19	SS-1 5X	CC90524 5X	104			0
20	SS-7	CC90510	101			0
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						

SMC1 BFB Bromofluorobenzene QC LIMITS
(70-130)

Column to be used to flag recovery values
 * Values outside of contract required QC limits
 D Surrogate diluted out

FORM II AIR

2C
AIR SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: Phoenix Environmental Labs Client: WALDENE
 Lab Code: Phoenix Case No.: _____ SDG: GCC90508
 QC Batch Id: 474357 QC Sample Id: CC90523

	CLIENT ID	LAB ID	SMC1 BFB #			TOT OUT
01	CC90523 LCS	CC90523 LCS	101			0
02	CC90523 BLANK	CC90523 BLANK	97			0
03	SS-3 75X	CC90509 75X	99			0
04	SS-4 75X	CC90511 75X	101			0
05	SS-DUP 75X	CC90512 75X	100			0
06	SS-10 75X	CC90523 75X	100			0
07	SS-1 75X	CC90524 75X	100			0
08	SS-2 300X	CC90517 300X	102			0
09	SS-10 DUP 75X	CC90523 DUP 75X	101			0
10						
11						
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26						
27						
28						
29						
30						

SMC1 BFB Bromofluorobenzene QC LIMITS
(70-130)

Column to be used to flag recovery values
 * Values outside of contract required QC limits
 D Surrogate diluted out

FORM II AIR

3
AIR LCS RECOVERY

Lab Name: Phoenix Environmental Labs Client: WALDENE

Lab Code: Phoenix Case No: _____ SAS No: _____ SDG No GCC90508

LCS - Client Id: CC90508 LCS

COMPOUND	SPIKE ADDED (ppbv)		LCS CONCENTRATION (ppbv)	LCS % REC #	QC. LIMITS REC.	
Propylene	10		11.29	113	70	130
Dichlorodifluoromethane	10		11.39	114	70	130
Chloromethane	10		11.15	112	70	130
1,2-Dichlorotetrafluoroethane	10		11.18	112	70	130
Vinyl Chloride	10		11.08	111	70	130
1,3-Butadiene	10		11.23	112	70	130
Bromomethane	10		10.85	109	70	130
Chloroethane	10		11.00	110	70	130
Ethanol	8		11.63	145 *	70	130
Acetone	10		10.79	108	70	130
Trichlorofluoromethane	10		11.09	111	70	130
Isopropylalcohol	10		10.67	107	70	130
Acrylonitrile	10		10.78	108	70	130
1,1-Dichloroethene	10		10.98	110	70	130
Methylene Chloride	10		10.81	108	70	130
Carbon Disulfide	10		10.84	108	70	130
Trichlorotrifluoroethane	10		11.08	111	70	130
1,1-Dichloroethane	10		11.09	111	70	130
Methyl tert-butyl ether(MTBE)	10		11.48	115	70	130
Methyl Ethyl Ketone	10		11.30	113	70	130
Cis-1,2-Dichloroethene	10		11.41	114	70	130
Hexane	10		11.40	114	70	130
Chloroform	10		11.10	111	70	130
Ethyl acetate	10		11.86	119	70	130
Tetrahydrofuran	10		11.97	120	70	130
1,2-Dichloroethane	10		11.23	112	70	130
1,1,1-Trichloroethane	10		11.68	117	70	130
Benzene	10		11.50	115	70	130
Carbon Tetrachloride	10		12.88	129	70	130
Cyclohexane	10		11.46	115	70	130
1,2-dichloropropane	10		10.71	107	70	130
Bromodichloromethane	10		11.44	114	70	130
Trichloroethene	10		10.44	104	70	130
1,4-Dioxane	10		11.01	110	70	130
Heptane	10		10.93	109	70	130
cis-1,3-Dichloropropene	10		11.50	115	70	130
4-Methyl-2-pentanone(MIBK)	10		12.06	121	70	130
trans-1,3-Dichloropropene	10		11.82	118	70	130
1,1,2-Trichloroethane	10		10.54	105	70	130
Toluene	10		10.93	109	70	130
Dibromochloromethane	10		13.88	139 *	70	130
2-Hexanone(MBK)	10		11.48	115	70	130
1,2-Dibromoethane(EDB)	10		11.09	111	70	130
Tetrachloroethene	10		10.69	107	70	130

FORM III AIR

3
AIR LCS RECOVERY

Lab Name: Phoenix Environmental Labs Client: WALDENE

Lab Code: Phoenix Case No: _____ SAS No: _____ SDG No GCC90508

LCS - Client Id: CC90508 LCS

COMPOUND	SPIKE ADDED (ppbv)		LCS CONCENTRATION (ppbv)	LCS % REC #	QC. LIMITS REC.	
1,1,1,2-Tetrachloroethane	10		11.56	116	70	130
Chlorobenzene	10		10.17	102	70	130
Ethylbenzene	10		10.73	107	70	130
m,p-Xylene	20		22.12	111	70	130
Bromoform	10		15.82	158 *	70	130
Styrene	10		11.20	112	70	130
1,1,2,2-Tetrachloroethane	10		10.90	109	70	130
o-Xylene	10		10.74	107	70	130
Isopropylbenzene	10		10.42	104	70	130
4-Ethyltoluene	10		11.11	111	70	130
1,3,5-Trimethylbenzene	10		11.02	110	70	130
1,2,4-Trimethylbenzene	10		11.34	113	70	130
Benzyl chloride	10		11.30	113	70	130
1,3-Dichlorobenzene	10		11.09	111	70	130
1,4-Dichlorobenzene	10		10.98	110	70	130
sec-Butylbenzene	10		10.73	107	70	130
4-Isopropyltoluene	10		11.24	112	70	130
1,2-Dichlorobenzene	10		11.24	112	70	130
n-Butylbenzene	10		11.39	114	70	130
1,2,4-Trichlorobenzene	10		15.41	154 *	70	130
Hexachlorobutadiene	10		13.32	133 *	70	130

3
AIR LCS RECOVERY

Lab Name: Phoenix Environmental Labs Client: WALDENE

Lab Code: Phoenix Case No: _____ SAS No: _____ SDG No GCC90508

LCS - Client Id: CC90523 LCS

COMPOUND	SPIKE ADDED (ppbv)		LCS CONCENTRATION (ppbv)	LCS % REC #	QC. LIMITS REC.	
Propylene	10		11.90	119	70	130
Dichlorodifluoromethane	10		11.43	114	70	130
Chloromethane	10		13.23	132 *	70	130
1,2-Dichlorotetrafluoroethane	10		12.66	127	70	130
Vinyl Chloride	10		12.80	128	70	130
1,3-Butadiene	10		13.27	133 *	70	130
Bromomethane	10		12.13	121	70	130
Chloroethane	10		12.67	127	70	130
Ethanol	8		12.89	161 *	70	130
Acetone	10		13.21	132 *	70	130
Trichlorofluoromethane	10		12.50	125	70	130
Isopropylalcohol	10		13.09	131 *	70	130
Acrylonitrile	10		14.20	142 *	70	130
1,1-Dichloroethene	10		13.02	130	70	130
Methylene Chloride	10		13.35	134 *	70	130
Carbon Disulfide	10		12.55	126	70	130
Trichlorotrifluoroethane	10		12.81	128	70	130
Trans-1,2-Dichloroethene	10		11.73	117	70	130
1,1-Dichloroethane	10		11.08	111	70	130
Methyl tert-butyl ether(MTBE)	10		11.28	113	70	130
Methyl Ethyl Ketone	10		12.26	123	70	130
Cis-1,2-Dichloroethene	10		12.03	120	70	130
Hexane	10		12.46	125	70	130
Chloroform	10		11.74	117	70	130
Ethyl acetate	10		12.75	128	70	130
Tetrahydrofuran	10		13.43	134 *	70	130
1,2-Dichloroethane	10		12.80	128	70	130
1,1,1-Trichloroethane	10		12.89	129	70	130
Benzene	10		12.23	122	70	130
Carbon Tetrachloride	10		15.12	151 *	70	130
Cyclohexane	10		13.45	135 *	70	130
1,2-dichloropropane	10		10.73	107	70	130
Bromodichloromethane	10		12.02	120	70	130
Trichloroethene	10		10.47	105	70	130
1,4-Dioxane	10		10.47	105	70	130
Heptane	10		12.06	121	70	130
cis-1,3-Dichloropropene	10		12.01	120	70	130
4-Methyl-2-pentanone(MIBK)	10		13.21	132 *	70	130
trans-1,3-Dichloropropene	10		12.28	123	70	130
1,1,2-Trichloroethane	10		10.69	107	70	130
Toluene	10		11.11	111	70	130
Dibromochloromethane	10		14.54	145 *	70	130
2-Hexanone(MBK)	10		12.61	126	70	130
1,2-Dibromoethane(EDB)	10		11.06	111	70	130

FORM III AIR

3
AIR LCS RECOVERY

Lab Name: Phoenix Environmental Labs Client: WALDENE

Lab Code: Phoenix Case No: _____ SAS No: _____ SDG No GCC90508

LCS - Client Id: CC90523 LCS

COMPOUND	SPIKE ADDED (ppbv)		LCS CONCENTRATION (ppbv)	LCS % REC #	QC. LIMITS REC.
Tetrachloroethene	10		10.73	107	70 130
1,1,1,2-Tetrachloroethane	10		11.71	117	70 130
Chlorobenzene	10		9.915	99	70 130
Ethylbenzene	10		10.36	104	70 130
m,p-Xylene	20		22.05	110	70 130
Bromoform	10		15.99	160 *	70 130
Styrene	10		10.88	109	70 130
1,1,2,2-Tetrachloroethane	10		10.78	108	70 130
o-Xylene	10		10.63	106	70 130
Isopropylbenzene	10		10.29	103	70 130
4-Ethyltoluene	10		10.81	108	70 130
1,3,5-Trimethylbenzene	10		10.73	107	70 130
1,2,4-Trimethylbenzene	10		11.20	112	70 130
Benzyl chloride	10		4.338	43 *	70 130
1,3-Dichlorobenzene	10		10.60	106	70 130
1,4-Dichlorobenzene	10		10.79	108	70 130
sec-Butylbenzene	10		10.47	105	70 130
4-Isopropyltoluene	10		10.91	109	70 130
1,2-Dichlorobenzene	10		10.85	109	70 130
n-Butylbenzene	10		11.35	114	70 130
1,2,4-Trichlorobenzene	10		14.63	146 *	70 130
Hexachlorobutadiene	10		12.94	129	70 130

4A
AIR METHOD BLANK SUMMARY

Client ID

CC90508 BLANK

Lab Name: Phoenix Environmental Labs

Client: WALDENE

Lab Code: Phoenix Case No.: _____

SAS No.: _____

SDG No.: GCC90508

Lab File ID: 0409_19.D

Lab Sample ID: CC90508 BLK

Date Analyzed: 04/09/2019

Time Analyzed: 17:15

GC Column: RTX-1 60M

Lab Batch ID: 474160

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	CC90508 LCS	CC90508 LCS	0409_17.D	16:04
02	IA-4	CC90508	0409_20.D	17:56
03	IA-4 DUP	CC90508 DUP	0409_21.D	18:37
04	IA-7	CC90513	0409_22.D	19:18
05	IA-1	CC90514	0409_23.D	20:00
06	IA-2	CC90515	0409_24.D	20:41
07	IA-3	CC90516	0409_25.D	21:22
08	AA-DUP	CC90518	0409_26.D	22:03
09	AA-1	CC90519	0409_27.D	22:44
10	AA-2	CC90520	0409_28.D	23:25
11	IA-10	CC90521	0409_29.D	00:06
12	IA-DUP	CC90522	0409_30.D	00:47
13	SS-3 5X	CC90509 5X	0409_31.D	01:24
14	SS-4 5X	CC90511 5X	0409_33.D	02:40
15	SS-DUP 5X	CC90512 5X	0409_34.D	03:18
16	SS-2 5X	CC90517 5X	0409_35.D	03:56
17	SS-10 5X	CC90523 5X	0409_36.D	04:33
18	SS-1 5X	CC90524 5X	0409_37.D	05:11
19	SS-7	CC90510	0409_39.D	06:28
20				

COMMENTS: _____

FORM IV AIR

4A
AIR METHOD BLANK SUMMARY

Client ID

CC90523 BLANK

Lab Name: Phoenix Environmental Labs

Client: WALDENE

Lab Code: Phoenix Case No.: _____

SAS No.: _____

SDG No.: GCC90508

Lab File ID: 0409_46.D

Lab Sample ID: CC90523 BLK

Date Analyzed: 04/10/2019

Time Analyzed: 10:54

GC Column: RTX-1 60M

Lab Batch ID: 474357

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	CC90523 LCS	CC90523 LCS	0409_43.D	09:05
02	SS-3 75X	CC90509 75X	0409_47.D	12:05
03	SS-4 75X	CC90511 75X	0409_48.D	12:42
04	SS-DUP 75X	CC90512 75X	0409_49.D	13:20
05	SS-10 75X	CC90523 75X	0409_51.D	14:35
06	SS-1 75X	CC90524 75X	0409_52.D	15:12
07	SS-2 300X	CC90517 300X	0409_55.D	17:09
08	SS-10 DUP 75X	CC90523 DUP 75X	0409_56.D	17:47
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

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.: GCC90508

Lab File ID: 0409_02.D

BFB Injection Date: 04/09/19

Instrument ID: CHEM20

BFB Injection Time: 06:32

GC Column: RTX-1 60M

Heated Purge: (Y/N) Y

AutoFind: Scans 983, 984, 985; Background Corrected with Scan 978

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	26.2
75	30.0 - 66.0% of mass 95	51.4
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	0.4 (0.6)1
174	50.0 - 120.0% of mass 95	65.7
175	4.0 - 9.0% of mass 174	8.0 (5.3)1
176	93.0 - 101.0% of mass 174	97.8 (64.3)1
177	5.0 - 9.0% of mass 176	6.5 (4.2)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 0.02	0.02	0409_04.D	04/09/19	07:45
02	ICAL 0.035	0.035	0409_05.D	04/09/19	08:22
03	ICAL 0.05	0.05	0409_06.D	04/09/19	08:59
04	ICAL 0.1	0.10	0409_07.D	04/09/19	09:36
05	ICAL 0.5	0.50	0409_08.D	04/09/19	10:16
06	ICAL 2.5	2.5	0409_09.D	04/09/19	10:56
07	ICAL 5	5.0	0409_10.D	04/09/19	11:33
08	ICAL 25	25	0409_11.D	04/09/19	12:13
09	ICAL 40	40	0409_12.D	04/09/19	12:55
10	ICAL 1	1ppb cc	0409_14.D	04/09/19	14:09
11	ICAL 0.2	0.2ppb	0409_15.D	04/09/19	14:47
12	ICAL 10	10ppb cc	0409_16.D	04/09/19	15:24
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					

(*) Outside 24 hr clock

FORM V AIR

CLPBFB

Data Path : H:\AIR2019\CHEM20\04APR\09\
 Data File : 0409_02.D
 Acq On : 09 Apr 2019 06:32 am
 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:\AIR2019\CHEM20\METHODS\20_AIR_0409.M
 Title : VOA Standards for 5 point calibration
 Last Update : Wed Apr 10 09:42:38 2019

AutoFind: Scans 983, 984, 985; Background Corrected with Scan 978

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	26.2	47339	PASS
75	95	30	66	51.4	92744	PASS
95	95	100	100	100.0	180592	PASS
96	95	5	9	6.7	12165	PASS
173	174	0.00	2	0.6	707	PASS
174	95	50	120	65.7	118715	PASS
175	174	4	9	8.0	9512	PASS
176	174	93	101	97.8	116080	PASS
177	176	5	9	6.5	7498	PASS

20_AIR_0409.M Thu Apr 25 12:22:06 2019

5B
AIR INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Phoenix Environmental Labs

Client: WALDENE

Lab Code: Phoenix Case No.: _____

SAS No.: _____

SDG No.: GCC90508

Lab File ID: 0409_14.D

BFB Injection Date: 04/09/19

Instrument ID: CHEM20

BFB Injection Time: 14:09

GC Column: RTX-1 60M

Heated Purge: (Y/N) Y

AutoFind: Scans 983, 984, 985; Background Corrected with Scan 978

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	27.3
75	30.0 - 66.0% of mass 95	52.3
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.3 (0.5)1
174	50.0 - 120.0% of mass 95	66.8
175	4.0 - 9.0% of mass 174	7.4 (5.0)1
176	93.0 - 101.0% of mass 174	94.1 (62.9)1
177	5.0 - 9.0% of mass 176	6.9 (4.4)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	CC90508 LCS	CC90508 LCS	0409_17.D	04/09/19	16:04
02	CC90508 BLANK	CC90508 BLANK	0409_19.D	04/09/19	17:15
03	IA-4	CC90508	0409_20.D	04/09/19	17:56
04	IA-4 DUP	CC90508 DUP	0409_21.D	04/09/19	18:37
05	IA-7	CC90513	0409_22.D	04/09/19	19:18
06	IA-1	CC90514	0409_23.D	04/09/19	20:00
07	IA-2	CC90515	0409_24.D	04/09/19	20:41
08	IA-3	CC90516	0409_25.D	04/09/19	21:22
09	AA-DUP	CC90518	0409_26.D	04/09/19	22:03
10	AA-1	CC90519	0409_27.D	04/09/19	22:44
11	AA-2	CC90520	0409_28.D	04/09/19	23:25
12	IA-10	CC90521	0409_29.D	04/10/19	00:06
13	IA-DUP	CC90522	0409_30.D	04/10/19	00:47
14	SS-3 5X	CC90509 5X	0409_31.D	04/10/19	01:24
15	SS-4 5X	CC90511 5X	0409_33.D	04/10/19	02:40
16	SS-DUP 5X	CC90512 5X	0409_34.D	04/10/19	03:18
17	SS-2 5X	CC90517 5X	0409_35.D	04/10/19	03:56
18	SS-10 5X	CC90523 5X	0409_36.D	04/10/19	04:33
19	SS-1 5X	CC90524 5X	0409_37.D	04/10/19	05:11
20	SS-7	CC90510	0409_39.D	04/10/19	06:28
21					
22					
23					
24					
25					

(*) Outside 24 hr clock

FORM V AIR

CLPBFB

Data Path : H:\AIR2019\CHEM20\04APR\09\
 Data File : 0409_14.D
 Acq On : 09 Apr 2019 02:09 pm
 Operator : CORTEX\ms
 Sample : 1ppb cc
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

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

Method : H:\AIR2019\CHEM20\METHODS\20_AIR_0409.M
 Title : VOA Standards for 5 point calibration
 Last Update : Wed Apr 10 09:03:38 2019

AutoFind: Scans 983, 984, 985; Background Corrected with Scan 978

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	27.3	49877	PASS
75	95	30	66	52.3	95688	PASS
95	95	100	100	100.0	182928	PASS
96	95	5	9	6.5	11823	PASS
173	174	0.00	2	0.5	619	PASS
174	95	50	120	66.8	122232	PASS
175	174	4	9	7.4	9075	PASS
176	174	93	101	94.1	115013	PASS
177	176	5	9	6.9	7951	PASS

20_AIR_0409.M Wed Apr 10 09:04:13 2019

5B
AIR INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Phoenix Environmental Labs Client: WALDENE
 Lab Code: Phoenix Case No.: _____ SAS No.: _____ SDG No.: GCC90508
 Lab File ID: 0409_41.D BFB Injection Date: 04/10/19
 Instrument ID: CHEM20 BFB Injection Time: 07:47
 GC Column: RTX-1 60M Heated Purge: (Y/N) Y

AutoFind: Scans 983, 984, 985; Background Corrected with Scan 978

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	28.8
75	30.0 - 66.0% of mass 95	54.9
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	0.3 (0.5)1
174	50.0 - 120.0% of mass 95	64.9
175	4.0 - 9.0% of mass 174	7.6 (4.9)1
176	93.0 - 101.0% of mass 174	97.3 (63.1)1
177	5.0 - 9.0% of mass 176	6.3 (4.0)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	0409_41.D	04/10/19	07:47	
02	CC90523 LCS	CC90523 LCS	0409_43.D	04/10/19	09:05	
03	CC90523 BLANK	CC90523 BLANK	0409_46.D	04/10/19	10:54	
04	SS-3 75X	CC90509 75X	0409_47.D	04/10/19	12:05	
05	SS-4 75X	CC90511 75X	0409_48.D	04/10/19	12:42	
06	SS-DUP 75X	CC90512 75X	0409_49.D	04/10/19	13:20	
07	SS-10 75X	CC90523 75X	0409_51.D	04/10/19	14:35	
08	SS-1 75X	CC90524 75X	0409_52.D	04/10/19	15:12	
09	SS-2 300X	CC90517 300X	0409_55.D	04/10/19	17:09	
10	SS-10 DUP 75X	CC90523 DUP 75X	0409_56.D	04/10/19	17:47	
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(*) Outside 24 hr clock

FORM V AIR

CLPBFB

Data Path : H:\AIR2019\CHEM20\04APR\09\
 Data File : 0409_41.D
 Acq On : 10 Apr 2019 07:47 am
 Operator : CORTEX\ms
 Sample : 1ppb cc
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

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

Method : H:\AIR2019\CHEM20\METHODS\20_AIR_0409.M
 Title : VOA Standards for 5 point calibration
 Last Update : Wed Apr 10 09:42:38 2019

AutoFind: Scans 983, 984, 985; Background Corrected with Scan 978

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	28.8	46732	PASS
75	95	30	66	54.9	89059	PASS
95	95	100	100	100.0	162091	PASS
96	95	5	9	6.7	10803	PASS
173	174	0.00	2	0.5	502	PASS
174	95	50	120	64.9	105125	PASS
175	174	4	9	7.6	7990	PASS
176	174	93	101	97.3	102251	PASS
177	176	5	9	6.3	6397	PASS

20_AIR_0409.M Wed Apr 10 16:02:24 2019

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.: GCC90508
 Lab Method / File Id: 20_AIR_0409.M / 0409_14.D Date Analyzed: 04/09/19
 Instrument ID: CHEM20 Time Analyzed: 14:09
 GC Column: RTX-1 60M ID: 0.18 (mm) Heated Purge:(Y/N) Y

	IS1 (BCM) AREA #	RT #	IS2 (DFB) AREA #	RT #	IS3 (CBZ) AREA #	RT #			LAB FILE ID
12 HOUR STD	140317	6.88	445159	7.78	209039	9.81			0409_14.D
UPPER LIMIT	197145	7.21	625448	8.11	293700	10.14			0409_14.D
LOWER LIMIT	83489	6.55	264870	7.45	124378	9.48			0409_14.D
CLIENT ID									
01 ICAL 1	140317	6.88	445159	7.78	209039	9.81			0409_14.D
02 CC90508 LCS	134010	6.88	417487	7.78	207223	9.81			0409_17.D
03 CC90508 BLANK	137728	6.87	422184	7.77	195526	9.81			0409_19.D
04 IA-4	123417	6.87	397146	7.77	192260	9.81			0409_20.D
05 IA-4 DUP	127622	6.87	404760	7.77	197692	9.81			0409_21.D
06 IA-7	126580	6.88	403050	7.77	189246	9.81			0409_22.D
07 IA-1	122750	6.88	385641	7.77	183209	9.81			0409_23.D
08 IA-2	118253	6.87	382590	7.77	184430	9.81			0409_24.D
09 IA-3	119780	6.88	382989	7.77	186262	9.81			0409_25.D
10 AA-DUP	122049	6.87	383830	7.77	185802	9.81			0409_26.D
11 AA-1	116764	6.88	374302	7.78	183086	9.81			0409_27.D
12 AA-2	115623	6.87	365856	7.77	179920	9.81			0409_28.D
13 IA-10	110707	6.88	364770	7.78	186507	9.81			0409_29.D
14 IA-DUP	115319	6.88	377508	7.77	189140	9.81			0409_30.D
15 SS-3 5X	113392	6.88	368048	7.78	177037	9.81			0409_31.D
16 SS-4 5X	108129	6.88	363783	7.78	176076	9.81			0409_33.D
17 SS-DUP 5X	110428	6.87	361275	7.77	175180	9.81			0409_34.D
18 SS-2 5X	111130	6.87	366695	7.77	171906	9.81			0409_35.D
19 SS-10 5X	108660	6.87	370681	7.77	178139	9.81			0409_36.D
20 SS-1 5X	111696	6.88	372099	7.77	178488	9.81			0409_37.D
21 SS-7	103792	6.87	347939	7.77	181935	9.81			0409_39.D
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.: GCC90508
 Lab Method / File Id: 20_AIR_0409.M / 0409_14.D Date Analyzed: 04/09/19
 Instrument ID: CHEM20 Time Analyzed: 14:09
 GC Column: RTX-1 60M ID: 0.18 (mm) Heated Purge:(Y/N) Y

	IS1 (BCM) AREA #	RT #	IS2 (DFB) AREA #	RT #	IS3 (CBZ) AREA #	RT #			LAB FILE ID
12 HOUR STD	191401	6.88	508826	7.77	209433	9.81			0409_14.D
UPPER LIMIT	268918	7.21	714901	8.10	294253	10.14			0409_14.D
LOWER LIMIT	113884	6.55	302751	7.44	124613	9.48			0409_14.D
CLIENT ID									
01 ICAL 1	191401	6.88	508826	7.77	209433	9.81			0409_14.D
02 CC90508 LCS	175430	6.88	484012	7.78	216049	9.81			0409_17.D
03 CC90508 BLANK	182807	6.87	482208	7.77	198523	9.81			0409_19.D
04 IA-4	170484	6.87	458010	7.77	196633	9.81			0409_20.D
05 IA-4 DUP	172030	6.87	459992	7.78	195993	9.81			0409_21.D
06 IA-7	174436	6.88	463928	7.77	194291	9.81			0409_22.D
07 IA-1	166803	6.87	441412	7.77	184998	9.81			0409_23.D
08 IA-2	162299	6.87	431989	7.78	182680	9.81			0409_24.D
09 IA-3	163336	6.87	438358	7.77	188778	9.81			0409_25.D
10 AA-DUP	166324	6.87	440757	7.77	185027	9.81			0409_26.D
11 AA-1	161216	6.88	430780	7.77	183192	9.81			0409_27.D
12 AA-2	159220	6.87	423143	7.77	180033	9.81			0409_28.D
13 IA-10	153766	6.88	423277	7.77	187914	9.81			0409_29.D
14 IA-DUP	160015	6.87	436620	7.77	190281	9.81			0409_30.D
15 SS-3 5X	155825	6.88	428062	7.78	181597	9.81			0409_31.D
16 SS-4 5X	148494	6.88	416872	7.78	179264	9.81			0409_33.D
17 SS-DUP 5X	153174	6.87	416485	7.78	176329	9.81			0409_34.D
18 SS-2 5X	152242	6.87	415688	7.77	173129	9.81			0409_35.D
19 SS-10 5X	153033	6.87	424362	7.77	177125	9.81			0409_36.D
20 SS-1 5X	155548	6.87	430137	7.78	180414	9.81			0409_37.D
21 SS-7	144640	6.87	403962	7.77	181982	9.81			0409_39.D
22									

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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.: GCC90508
 Lab Method / File Id: 20_AIR_0409.M / Average Date Analyzed: 04/09/19
 Instrument ID: CHEM20 Time Analyzed: 14:09
 GC Column: RTX-1 60M 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 #			LAB FILE ID
12 HOUR STD	149726	6.88	429737	7.78	209563	9.81			Average
UPPER LIMIT	210364	7.21	603780	8.11	294436	10.14			Average
LOWER LIMIT	89087	6.55	255693	7.45	124690	9.48			Average
CLIENT ID									
01 ICAL 0.5	140216	6.87	430790	7.77	199872	9.81			0409_08.D
02 ICAL 2.5	139560	6.88	435952	7.78	202851	9.81			0409_09.D
03 ICAL 5	144117	6.88	429079	7.78	205886	9.81			0409_10.D
04 ICAL 25	163778	6.89	416024	7.78	223724	9.81			0409_11.D
05 ICAL 40	185336	6.89	424848	7.78	231886	9.81			0409_12.D
06 ICAL 1	140317	6.88	445159	7.78	209039	9.81			0409_14.D
07 ICAL 0.2	140705	6.87	434962	7.77	200316	9.81			0409_15.D
08 ICAL 10	143775	6.88	421079	7.78	202928	9.81			0409_16.D
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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.: GCC90508
 Lab Method / File Id: 20_AIR_0409.M / Average Date Analyzed: 04/09/19
 Instrument ID: CHEM20 Time Analyzed: 14:09
 GC Column: RTX-1 60M 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 #			LAB FILE ID
12 HOUR STD	192041	6.88	498362	7.78	207341	9.81			Average
UPPER LIMIT	269817	7.21	700199	8.11	291314	10.14			Average
LOWER LIMIT	114264	6.55	296526	7.45	123368	9.48			Average
CLIENT ID									
01 ICAL 0.02	199331	6.88	518707	7.77	208626	9.81			0409_04.D
02 ICAL 0.035	195696	6.87	506266	7.77	205987	9.81			0409_05.D
03 ICAL 0.05	193754	6.88	505626	7.78	206756	9.81			0409_06.D
04 ICAL 0.1	192013	6.88	498339	7.77	205684	9.81			0409_07.D
05 ICAL 0.5	189087	6.87	494232	7.77	205493	9.81			0409_08.D
06 ICAL 2.5	185571	6.88	495028	7.77	206662	9.81			0409_09.D
07 ICAL 5	192406	6.88	487305	7.78	209097	9.81			0409_10.D
08 ICAL 1	191401	6.88	508826	7.77	209433	9.81			0409_14.D
09 ICAL 0.2	188865	6.87	495973	7.77	203542	9.81			0409_15.D
10 ICAL 10	192284	6.88	473322	7.77	212132	9.81			0409_16.D
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22									

IS1 (BCM) = Bromochloromethane
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 AREA LOWER LIMIT = - 60% of internal standard area
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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.: GCC90508
 Lab Method / File Id: 20_AIR_0409.M / 0409_41.D Date Analyzed: 04/10/19
 Instrument ID: CHEM20 Time Analyzed: 7:47
 GC Column: RTX-1 60M ID: 0.18 (mm) Heated Purge:(Y/N) Y

	IS1 (BCM) AREA #	RT #	IS2 (DFB) AREA #	RT #	IS3 (CBZ) AREA #	RT #			LAB FILE ID
12 HOUR STD	114610	6.87	388380	7.77	188017	9.81			0409_41.D
UPPER LIMIT	161027	7.20	545674	8.10	264164	10.14			0409_41.D
LOWER LIMIT	68193	6.54	231086	7.44	111870	9.48			0409_41.D
CLIENT ID									
01 CCAL 1	114610	6.87	388380	7.77	188017	9.81			0409_41.D
02 CC90523 LCS	109338	6.88	372985	7.78	193517	9.81			0409_43.D
03 CC90523 BLANK	106351	6.88	352841	7.77	175545	9.81			0409_46.D
04 SS-3 75X	97780	6.88	332148	7.77	165153	9.81			0409_47.D
05 SS-4 75X	97046	6.87	324029	7.77	164483	9.81			0409_48.D
06 SS-DUP 75X	89869	6.87	306888	7.77	155615	9.81			0409_49.D
07 SS-10 75X	87556	6.88	301959	7.77	158326	9.81			0409_51.D
08 SS-1 75X	89308	6.87	306244	7.77	158510	9.81			0409_52.D
09 SS-2 300X	88581	6.88	298725	7.77	153421	9.81			0409_55.D
10 SS-10 DUP 75X	87632	6.88	302941	7.78	156938	9.81			0409_56.D
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22									

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

AREA UPPER LIMIT = +140% of internal standard area
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 RT UPPER LIMIT = +0.33 minutes of internal standard RT
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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.: GCC90508
 Lab Method / File Id: 20_AIR_0409.M / 0409_41.D Date Analyzed: 04/10/19
 Instrument ID: CHEM20 Time Analyzed: 7:47
 GC Column: RTX-1 60M ID: 0.18 (mm) Heated Purge:(Y/N) Y

	IS1 (BCM) AREA #	RT #	IS2 (DFB) AREA #	RT #	IS3 (CBZ) AREA #	RT #			LAB FILE ID
12 HOUR STD	157682	6.87	439722	7.78	186542	9.81			0409_41.D
UPPER LIMIT	221543	7.20	617809	8.11	262092	10.14			0409_41.D
LOWER LIMIT	93821	6.54	261635	7.45	110992	9.48			0409_41.D
CLIENT ID									
01 CCAL 1	157682	6.87	439722	7.78	186542	9.81			0409_41.D
02 CC90523 LCS	148993	6.88	424054	7.78	195889	9.81			0409_43.D
03 CC90523 BLANK	146799	6.87	404965	7.77	173605	9.81			0409_46.D
04 SS-3 75X	137584	6.87	382802	7.78	167035	9.81			0409_47.D
05 SS-4 75X	135711	6.87	375973	7.78	165386	9.81			0409_48.D
06 SS-DUP 75X	127781	6.87	355995	7.77	156711	9.81			0409_49.D
07 SS-10 75X	124556	6.87	353647	7.77	158517	9.81			0409_51.D
08 SS-1 75X	127172	6.87	358698	7.78	160556	9.81			0409_52.D
09 SS-2 300X	123179	6.88	351724	7.78	156678	9.81			0409_55.D
10 SS-10 DUP 75X	122754	6.88	352072	7.78	159025	9.81			0409_56.D
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22									

IS1 (BCM) = Bromochloromethane
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AREA UPPER LIMIT = +140% of internal standard area
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 RT UPPER LIMIT = +0.33 minutes of internal standard RT
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FORM VIII VOA

1
AIR ANALYSIS DATA SHEET

CLIENT ID

IA-4

Client:	WALDENE	Lab:	Phoenix Env. Labs
SDG No.:	GCC90508	Lab Sample ID:	CC90508
Canister:	492	Lab File ID:	0409_20.D
Instrument:	CHEM20	Column:	RTX-1 60M
Date Received:	04/08/19		
Purge Volume	200	(cc)	04/09/19
Date Analyzed:	04/09/19		
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	0.478		0.202	0.202	r
74-87-3	Chloromethane	0.625		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	14.6	S	0.531	0.531	r
67-64-1	Acetone	7.42	S	0.421	0.421	r
75-69-4	Trichlorofluoromethane	0.245		0.178	0.178	r
67-63-0	Isopropylalcohol	0.767	S	0.407	0.407	r
107-13-1	Acrylonitrile	0.461	U	0.461	0.461	r
75-09-2	Methylene Chloride	0.864	U	0.864	0.864	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	1.02		0.339	0.339	r
110-54-3	Hexane	1.91	S	0.284	0.284	r
141-78-6	Ethyl acetate	0.278	U	0.278	0.278	r
109-99-9	Tetrahydrofuran	1.74		0.339	0.339	r
71-43-2	Benzene	0.491		0.313	0.313	r
110-82-7	Cyclohexane	0.632		0.291	0.291	r
142-82-5	Heptane	0.824		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	2.46		0.266	0.266	r
591-78-6	2-Hexanone(MBK)	0.244	U	0.244	0.244	r
127-18-4	Tetrachloroethene	2.49		0.037	0.037	r
630-20-6	1,1,1,2-Tetrachloroethane	0.146	U	0.146	0.146	r
108-90-7	Chlorobenzene	0.217	U	0.217	0.217	r
100-41-4	Ethylbenzene	0.513		0.230	0.230	r
179601-23-1	m,p-Xylene	2.06		0.230	0.230	r
100-42-5	Styrene	0.235	U	0.235	0.235	r
95-47-6	o-Xylene	0.892		0.230	0.230	r
98-82-8	Isopropylbenzene	0.227		0.204	0.204	r
622-96-8	4-Ethyltoluene	1.01		0.204	0.204	r
108-67-8	1,3,5-Trimethylbenzene	1.05		0.204	0.204	r
95-63-6	1,2,4-Trimethylbenzene	3.77		0.204	0.204	r
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.143	U	0.143	0.143	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

IA-4

Client: WALDENE Lab: Phoenix Env. Labs

SDG No.: GCC90508 Lab Sample ID: CC90508

Canister: 492 Lab File ID: 0409_20.D

Instrument: CHEM20 Column: RTX-1 60M Date Received: 04/08/19

Purge Volume 200 (cc) Date Analyzed: 04/09/19

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
75-01-4	Vinyl Chloride(sim)	0.078	U	0.078	0.078	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)	0.083		0.032	0.032	r
75-35-4	1,1-Dichloroethene(sim)	0.051	U	0.051	0.051	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)	0.055		0.051	0.051	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)	0.043		0.037	0.037	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
79-34-5	1,1,1,2-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

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2019\CHEM20\04APR\09\
 Data File : 0409_20.D
 Acq On : 09 Apr 2019 05:56 pm
 Operator : CORTEX\ms
 Client ID : IA-4
 Lab ID : CC90508
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 10 10:24:18 2019
 Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_0409.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Wed Apr 10 09:07:16 2019
 Response via : Initial Calibration

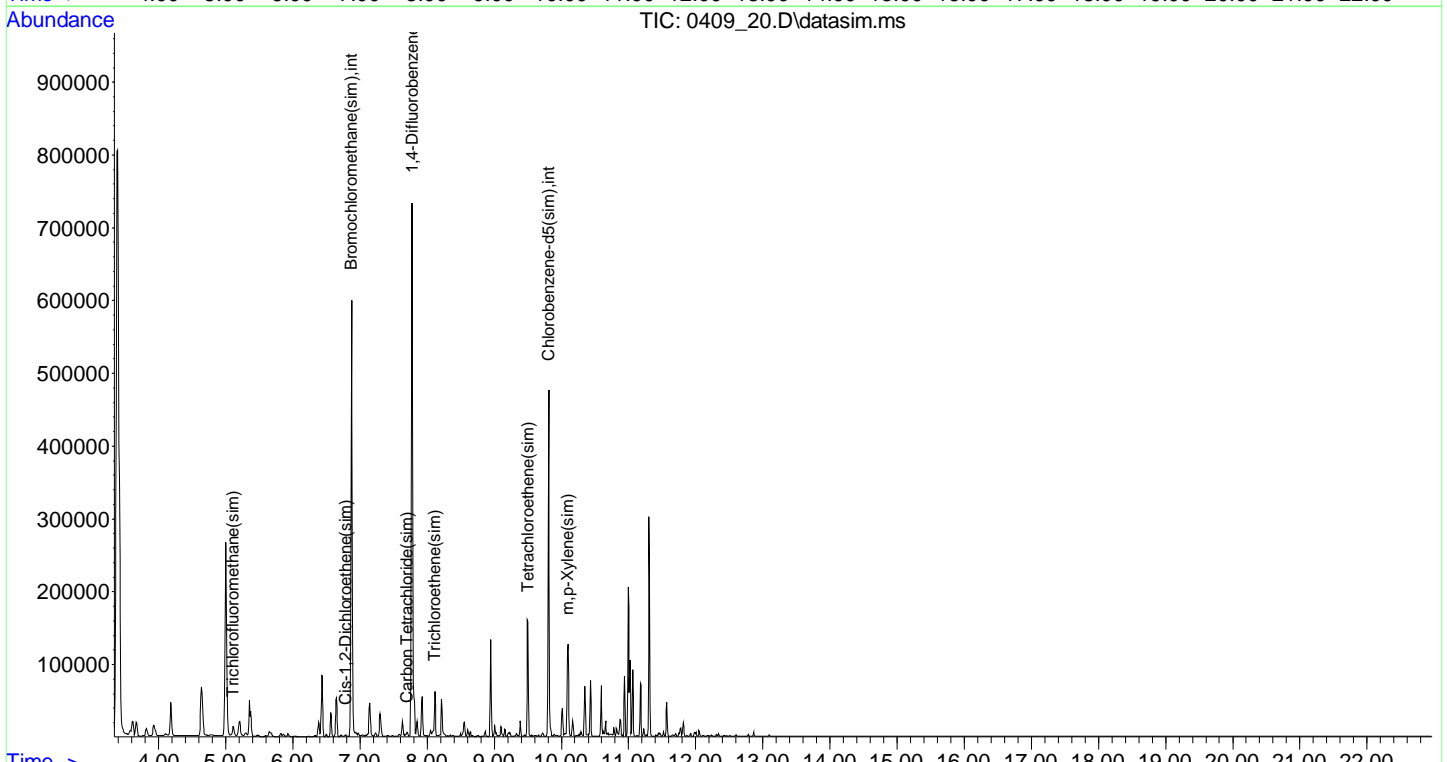
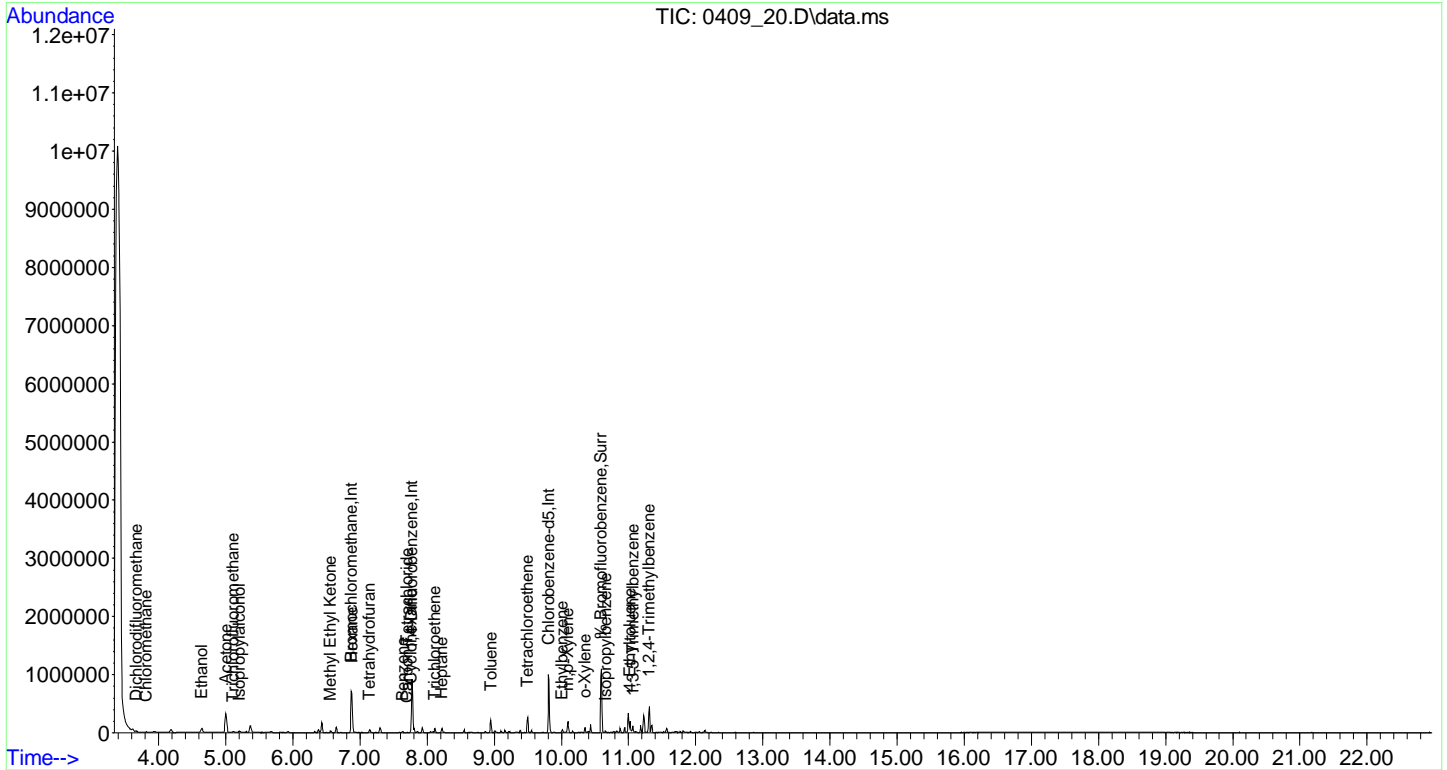
Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
Internal Standards						
1) Bromchloromethane	6.871	130	123417	10.000	ng	0.00
36) 1,4-Difluorobenzene	7.772	114	397146	10.000	ng	0.00
53) Chlorobenzene-d5	9.807	82	192260	10.000	ng	# 0.00
80) Bromchloromethane(sim)	6.874	130	170484	10.000	ng	# 0.00
94) 1,4-Difluorobenzene(sim)	7.775	114	458010	10.000	ng	0.00
104) Chlorobenzene-d5(sim)	9.810	82	196633	10.000	ng	# 0.00
System Monitoring Compounds						
62) % Bromfluorobenzene	10.596	95	256551	10.179	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	101.80%
Target Compounds						
						Qvalue
3) Dichlorodifluoromethane	3.670	85	15124	0.478	ppbv#	93
4) Chloromethane	3.816	50	8262	0.625	ppbv	93
11) Ethanol	4.644	45	77553	14.604	ppbv	96
12) Acetone	5.001	43	204673	7.417	ppbv#	72
13) Trichlorofluoromethane	5.114	101	10143	0.245	ppbv#	95
14) Isopropylalcohol	5.204	45	22288	0.767	ppbv#	96
25) Methyl Ethyl Ketone	6.562	43	35467	1.021	ppbv#	75
26) Cis-1,2-Dichloroethene	6.786	61	979	0.048	ppbv#	79
27) Hexane	6.879	57	38163	1.912	ppbv#	75
30) Tetrahydrofuran	7.143	42	25408	1.739	ppbv#	60
33) Benzene	7.636	78	13286	0.491	ppbv#	79
34) Carbon Tetrachloride	7.704	117	1833	0.079	ppbv	94
35) Cyclohexane	7.764	41	6874	0.632	ppbv#	1
39) Trichloroethene	8.111	130	715	0.048	ppbv#	80
43) Heptane	8.221	43	16506	0.824	ppbv#	70
48) Toluene	8.948	91	79974	2.456	ppbv#	98
52) Tetrachloroethene	9.497	166	39325	2.494	ppbv#	91
56) Ethylbenzene	10.012	91	23356	0.513	ppbv	95
57) m p-Xylene	10.095	91	71643	2.061	ppbv	93
61) o-Xylene	10.353	91	32452	0.892	ppbv	94
64) Isopropylbenzene	10.656	105	10847	0.227	ppbv#	94
66) 4-Ethyltoluene	11.021	105	48596m	1.009	ppbv	95
67) 1,3,5-Trimethylbenzene	11.066	105	43469	1.048	ppbv#	91
68) 1,2,4-Trimethylbenzene	11.309	105	153116	3.772	ppbv#	82
84) Trichlorofluoromethane...	5.109	101	12490	0.220	ppbv	100
87) Carbon Tetrachloride(sim)	7.704	117	1833	0.083	ppbv	94
92) Cis-1,2-Dichloroethene...	6.789	61	1408	0.055	ppbv#	76
97) Trichloroethene(sim)	8.111	130	715	0.043	ppbv	90
103) Tetrachloroethene(sim)	9.497	166	39325	2.186	ppbv	91
106) m p-Xylene(sim)	10.098	91	76223	2.018	ppbv#	92

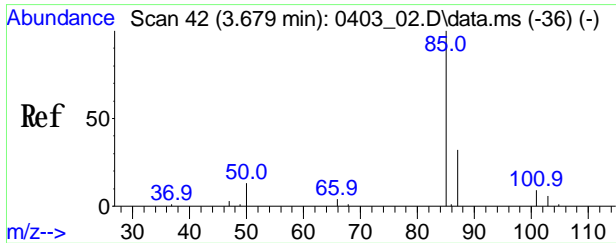
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2019\CHEM20\04APR\09\
Data File : 0409_20.D
Acq On : 09 Apr 2019 05:56 pm
Operator : CORTEX\nms
Client ID : IA-4
Lab ID : CC90508
ALS Vial : 1 Sample Multiplier: 1

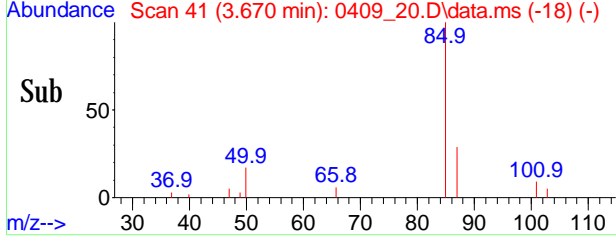
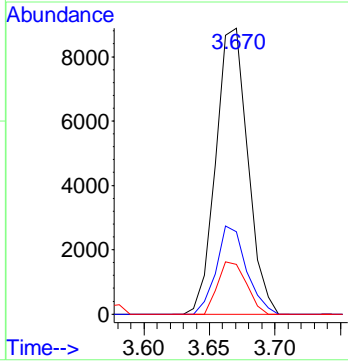
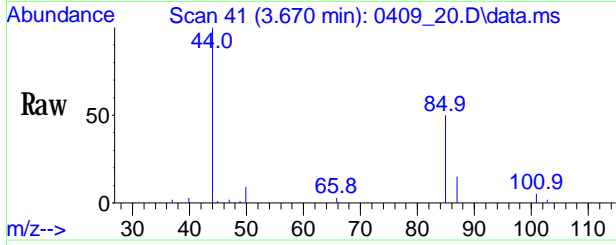
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Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_0409.M
Quant Title : VOA Standards for 5 point calibration
Last Update : Wed Apr 10 09:07:16 2019
Response via : Initial Calibration





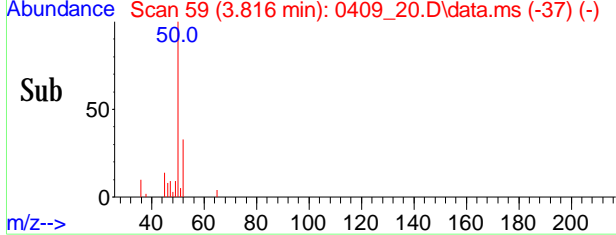
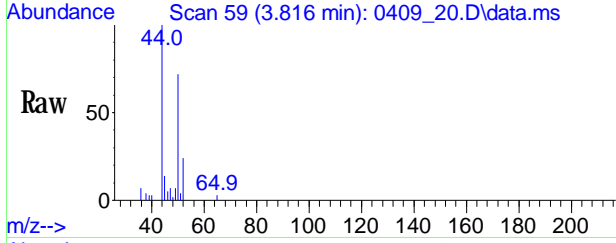
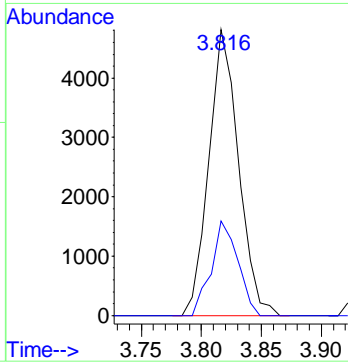
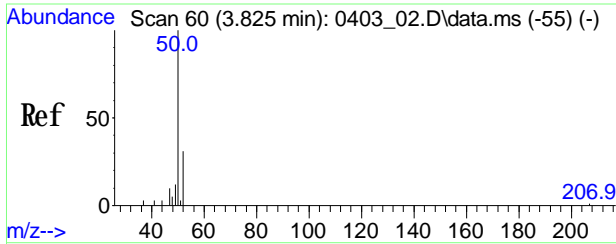
#3
 Dichlorodifluoromethane
 Conc: 8S 0.478 ppby
 RT: 3.670 min Scan# 41
 Delta R.T. -0.016 min
 Lab File: 0409_20.D
 Acq: 09 Apr 2019 05:56 pm

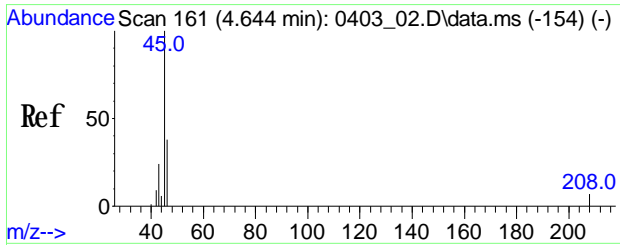
Tgt Ion	Ratio	Resp	Lower	Upper
85	100	15124		
87	29.1	25.6	38.4	
50	16.4	9.4	14.2#	



#4
 Chloromethane
 Conc: 8S 0.625 ppby
 RT: 3.816 min Scan# 59
 Delta R.T. -0.024 min
 Lab File: 0409_20.D
 Acq: 09 Apr 2019 05:56 pm

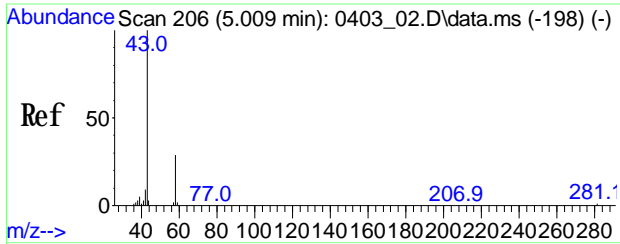
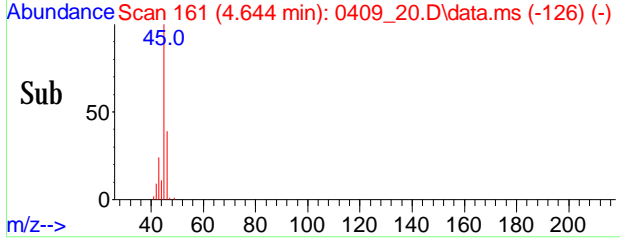
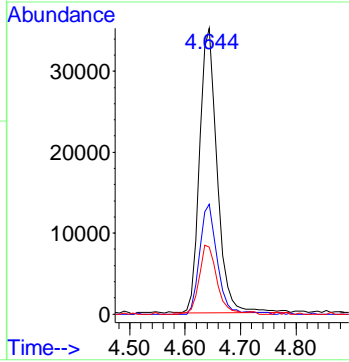
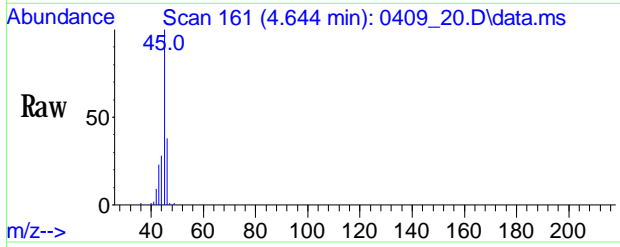
Tgt Ion	Ratio	Resp	Lower	Upper
50	100	8262		
52	29.5	13.6	53.6	





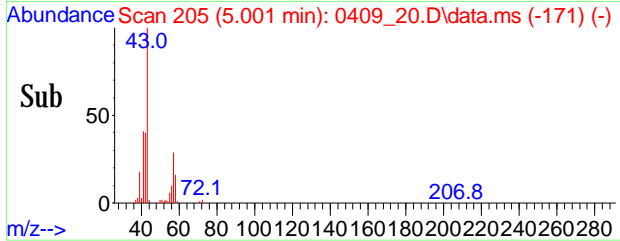
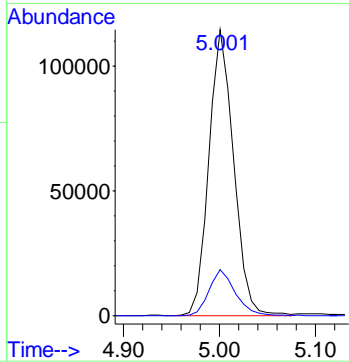
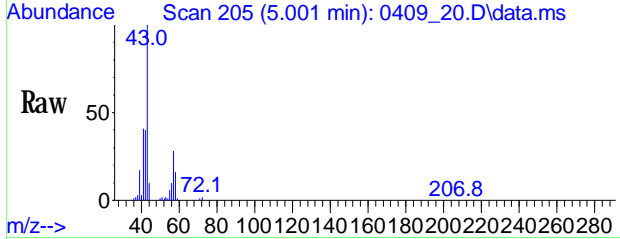
#11
 Ethanol
 Conc: 8S 14.604 ppbv
 RT: 4.644 min Scan# 161
 Delta R.T. -0.016 min
 Lab File: 0409_20.D
 Acq: 09 Apr 2019 05:56 pm

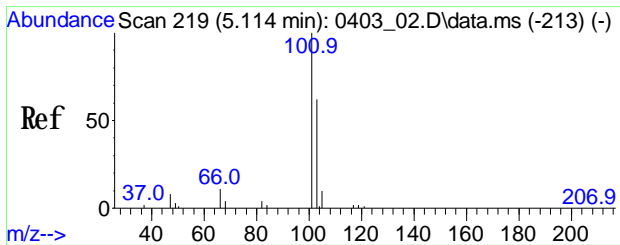
Tgt Ion	Ratio	Resp	Lower	Upper
45	100			
46	38.6	29.9		44.9
43	24.6	22.7		34.1



#12
 Acetone
 Conc: 8S 7.417 ppbv
 RT: 5.001 min Scan# 205
 Delta R.T. -0.024 min
 Lab File: 0409_20.D
 Acq: 09 Apr 2019 05:56 pm

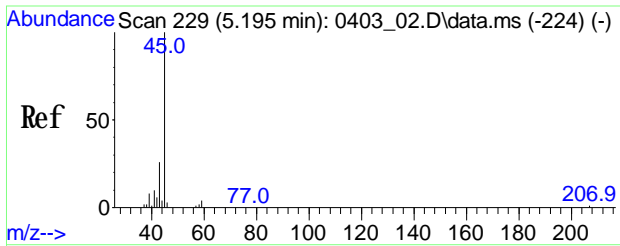
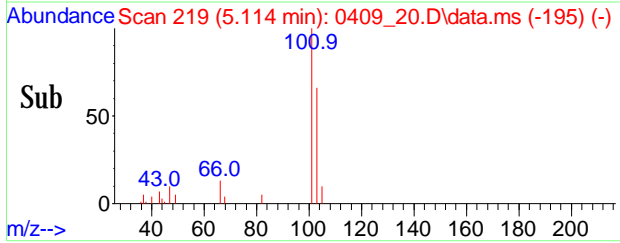
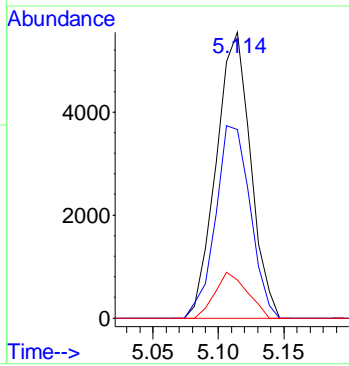
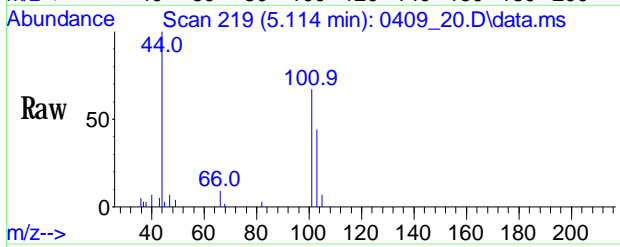
Tgt Ion	Ratio	Resp	Lower	Upper
43	100			
58	16.8	25.9		38.9#





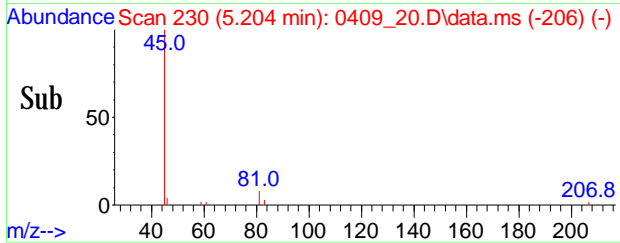
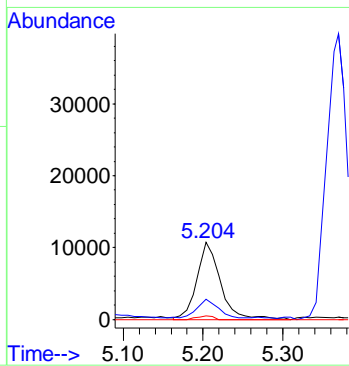
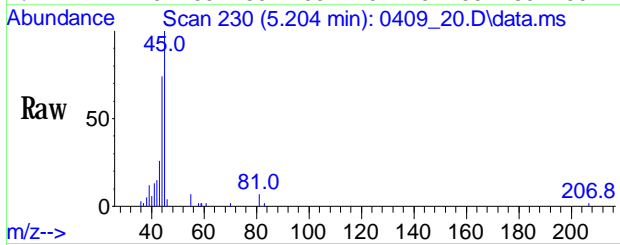
#13
 Trichlorofluoromethane
 Conc: 8S 0.245 ppbv
 RT: 5.114 min Scan# 219
 Delta R.T. -0.008 min
 Lab File: 0409_20.D
 Acq: 09 Apr 2019 05:56 pm

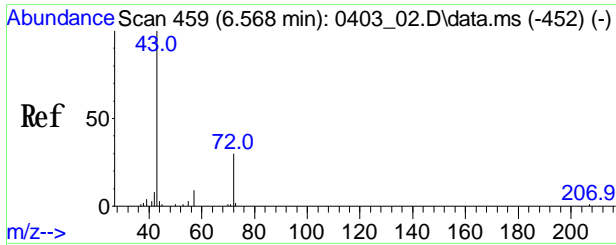
Tgt Ion	Ratio	Resp	Lower	Upper
101	100	10143		
103	68.0	51.6	77.4	
66	14.9	9.4	14.0#	



#14
 Isopropylalcohol
 Conc: 8S 0.767 ppbv
 RT: 5.204 min Scan# 230
 Delta R.T. -0.008 min
 Lab File: 0409_20.D
 Acq: 09 Apr 2019 05:56 pm

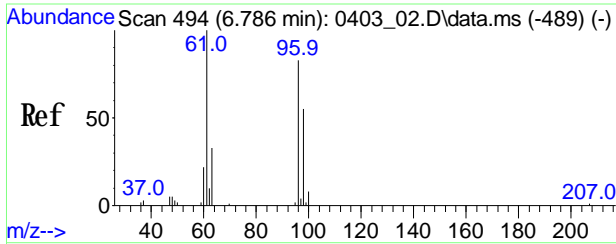
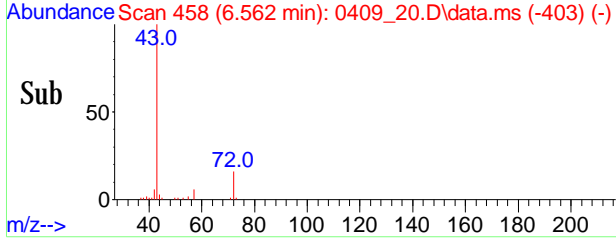
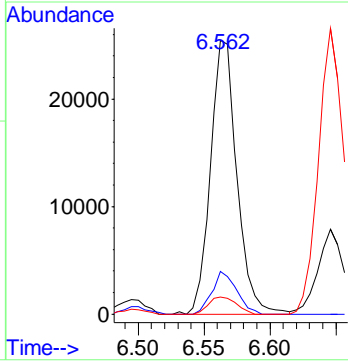
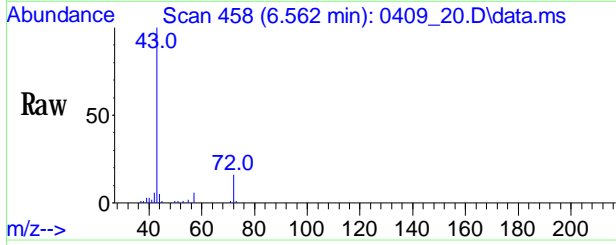
Tgt Ion	Ratio	Resp	Lower	Upper
45	100	22288		
43	21.1	18.6	27.8	
59	3.0	3.7	5.5#	





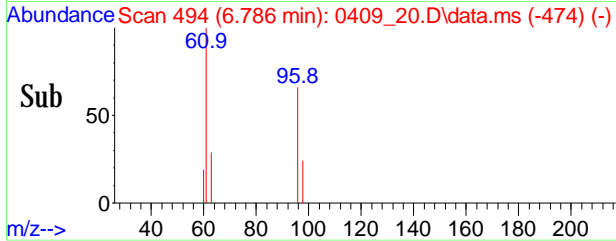
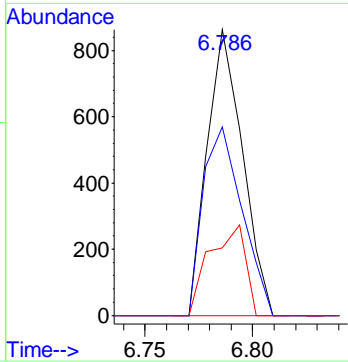
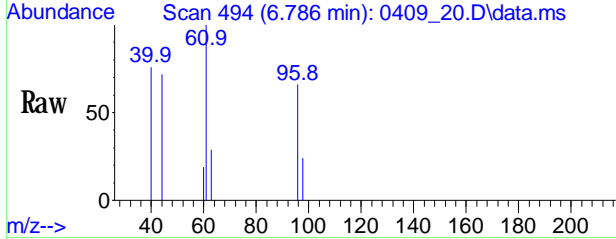
#25
 Methyl Ethyl Ketone
 Conc: 8S 1.021 ppbv
 RT: 6.562 min Scan# 458
 Delta R.T. -0.011 min
 Lab File: 0409_20.D
 Acq: 09 Apr 2019 05:56 pm

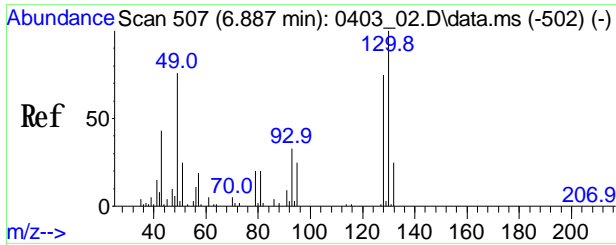
Tgt Ion	Ratio	Resp	Lower	Upper
43	100	35467		
72	14.5	24.6	37.0#	
57	6.6	7.4	11.2#	



#26
 Cis-1,2-Dichloroethene
 Conc: 8S Below Cal
 RT: 6.786 min Scan# 494
 Delta R.T. -0.008 min
 Lab File: 0409_20.D
 Acq: 09 Apr 2019 05:56 pm

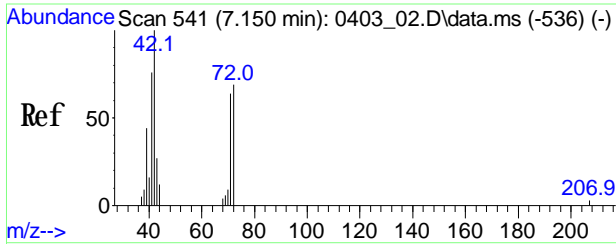
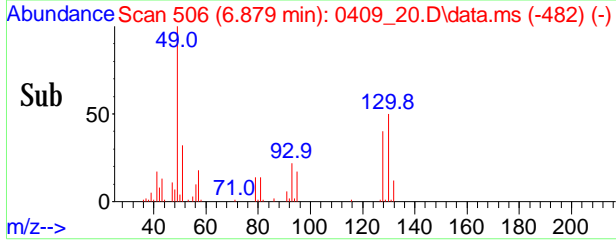
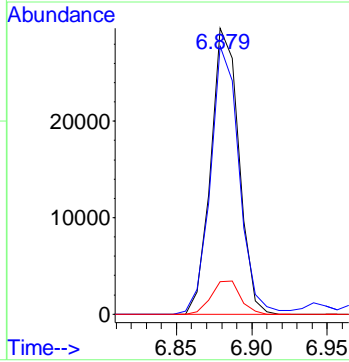
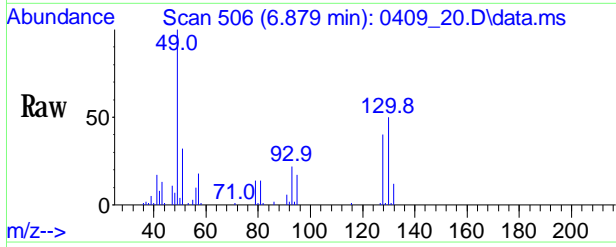
Tgt Ion	Ratio	Resp	Lower	Upper
61	100	979		
96	72.5	67.8	101.8	
98	31.9	43.8	65.6#	





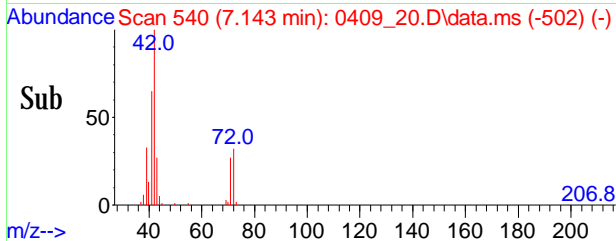
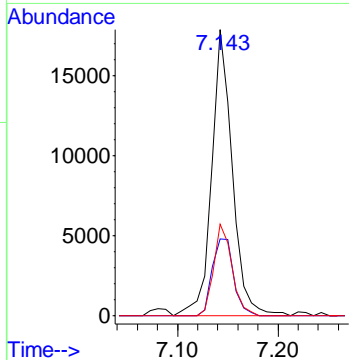
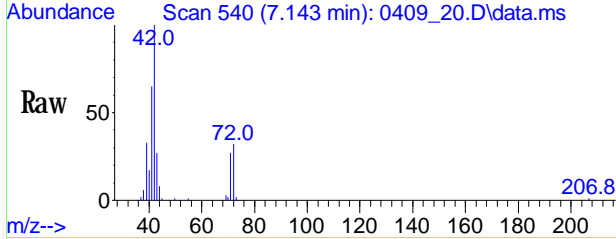
#27
 Hexane
 Conc: 8S 1.912 ppbv
 RT: 6.879 min Scan# 506
 Delta R.T. -0.008 min
 Lab File: 0409_20.D
 Acq: 09 Apr 2019 05:56 pm

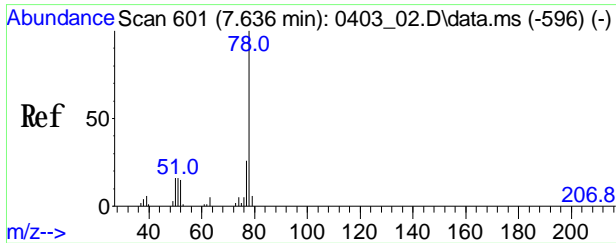
Tgt Ion	Ratio	Resp	Upper
57	100	38163	
41	96.0	58.9	88.3#
86	12.2	16.4	24.6#



#30
 Tetrahydrofuran
 Conc: 8S 1.739 ppbv
 RT: 7.143 min Scan# 540
 Delta R.T. -0.007 min
 Lab File: 0409_20.D
 Acq: 09 Apr 2019 05:56 pm

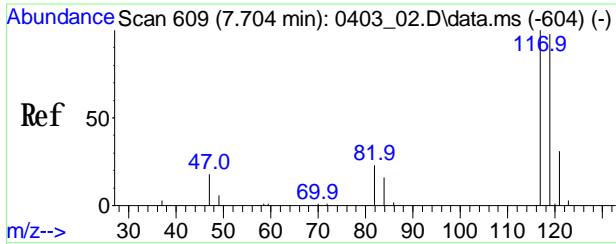
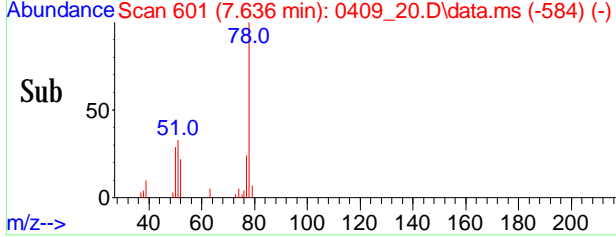
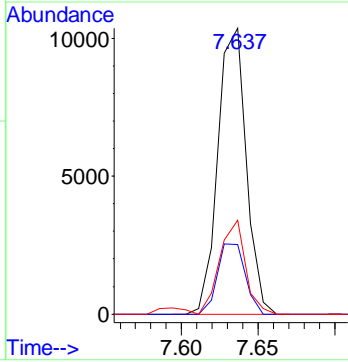
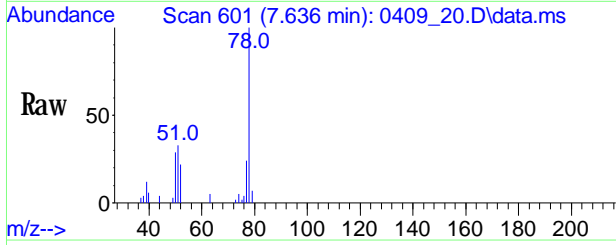
Tgt Ion	Ratio	Resp	Upper
42	100	25408	
71	27.7	45.8	68.6#
72	28.2	46.5	69.7#





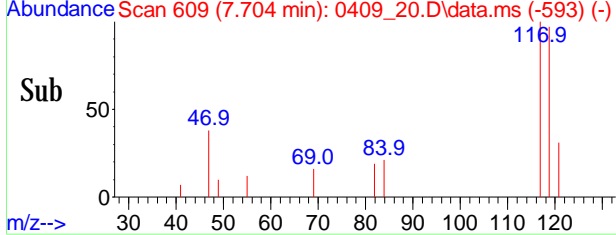
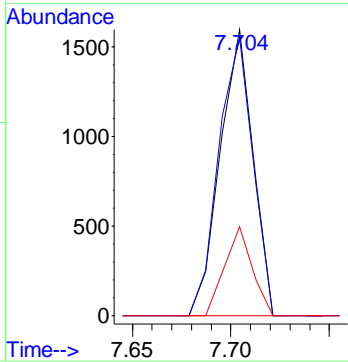
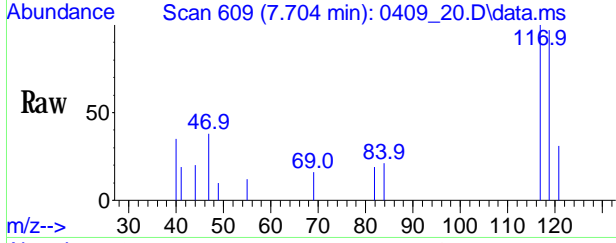
#33
 Benzene
 Conc: 8S 0.491 ppbv
 RT: 7.636 min Scan# 601
 Delta R.T. 0.000 min
 Lab File: 0409_20.D
 Acq: 09 Apr 2019 05:56 pm

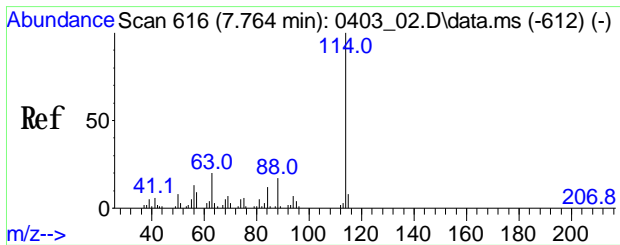
Tgt Ion	Ratio	Resp	Upper
78	100	13286	Lower
77	24.0	18.6	27.8
51	37.0	12.9	19.3#



#34
 Carbon Tetrachloride
 Conc: 8S Below Cal
 RT: 7.704 min Scan# 609
 Delta R.T. 0.000 min
 Lab File: 0409_20.D
 Acq: 09 Apr 2019 05:56 pm

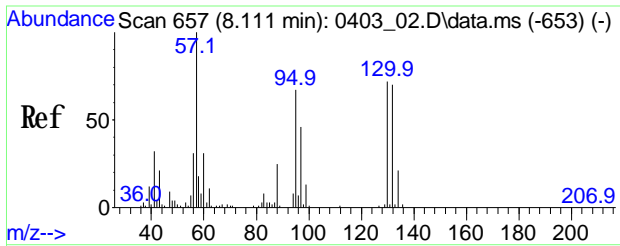
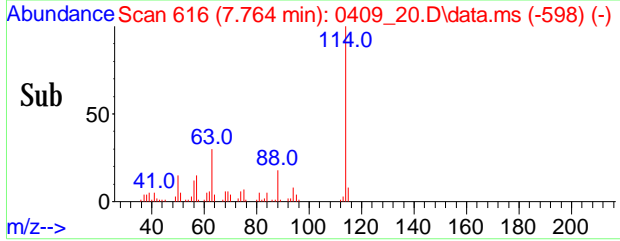
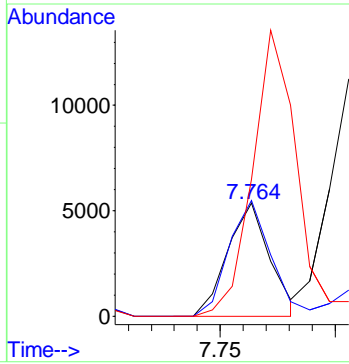
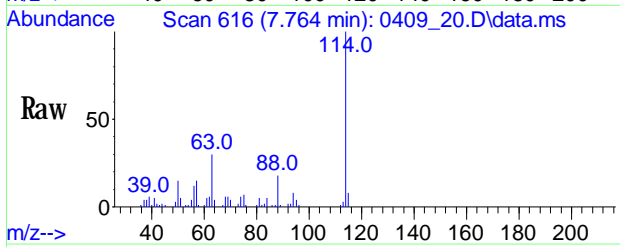
Tgt Ion	Ratio	Resp	Upper
117	100	1833	Lower
119	100.8	75.8	115.8
121	25.9	10.7	50.7





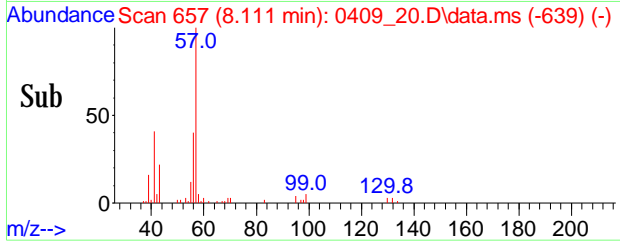
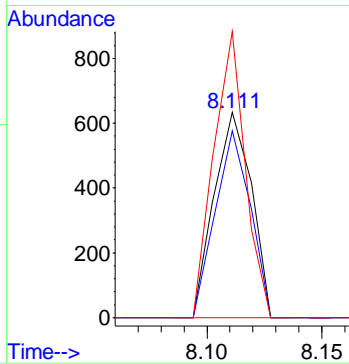
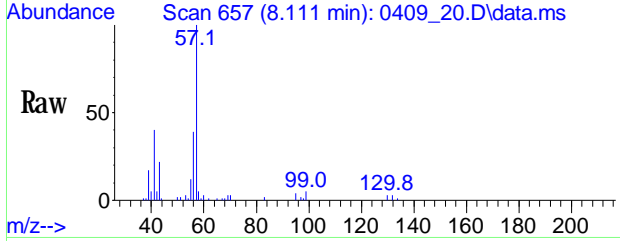
#35
 Cyclohexane
 Conc: 8S 0.632 ppbv
 RT: 7.764 min Scan# 616
 Delta R.T. 0.001 min
 Lab File: 0409_20.D
 Acq: 09 Apr 2019 05:56 pm

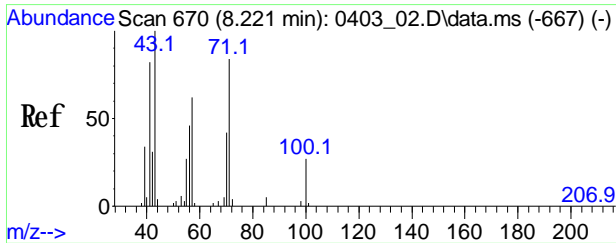
Tgt Ion	Ratio	Resp	Lower	Upper
41	100	6874		
84	102.4	158.4	237.6#	
69	266.3	69.1	103.7#	



#39
 Trichloroethene
 Conc: 8S Below Cal
 RT: 8.111 min Scan# 657
 Delta R.T. -0.000 min
 Lab File: 0409_20.D
 Acq: 09 Apr 2019 05:56 pm

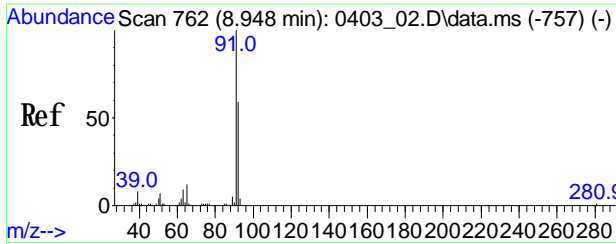
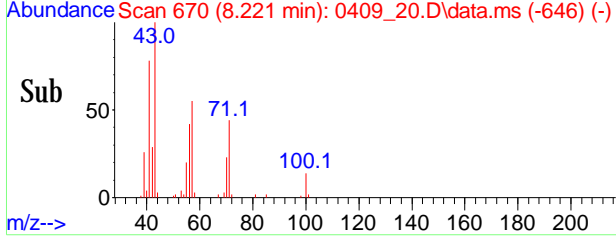
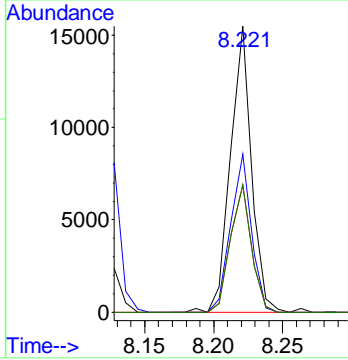
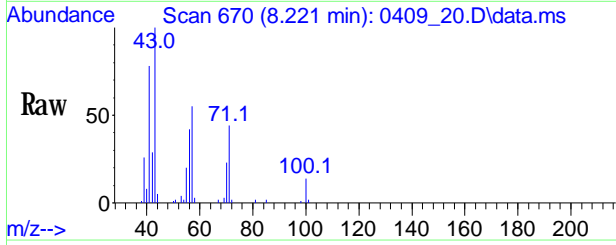
Tgt Ion	Ratio	Resp	Lower	Upper
130	100	715		
132	85.5	78.0	117.0	
95	117.2	73.0	109.4#	





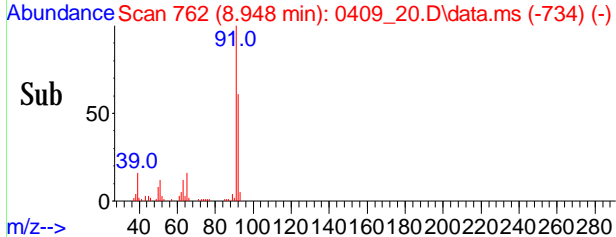
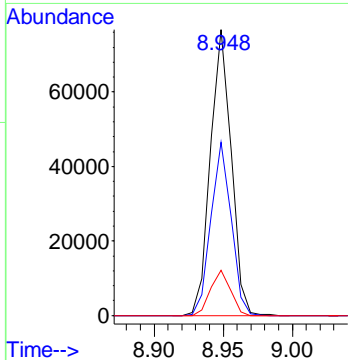
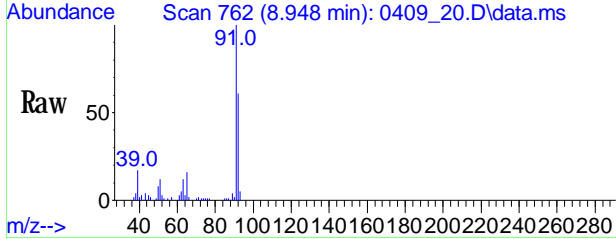
#43
Heptane
 Conc: 8S 0.824 ppbv
 RT: 8.221 min Scan# 670
 Delta R.T. 0.000 min
 Lab File: 0409_20.D
 Acq: 09 Apr 2019 05:56 pm

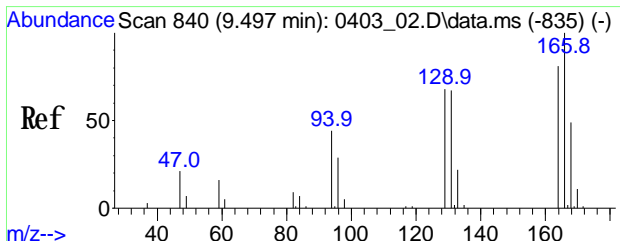
Tgt Ion	Ratio	Resp	Lower	Upper
43	100			
57	54.2	49.7		74.5
71	44.3	62.2		93.2#
71	44.3	62.2		93.2#



#48
Toluene
 Conc: 8S 2.456 ppbv
 RT: 8.948 min Scan# 762
 Delta R.T. 0.000 min
 Lab File: 0409_20.D
 Acq: 09 Apr 2019 05:56 pm

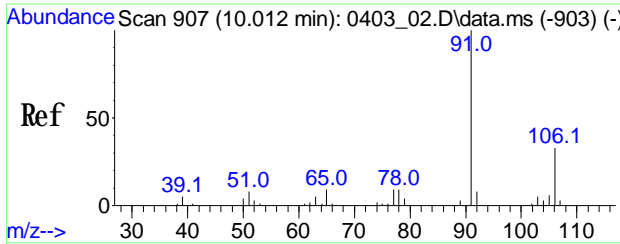
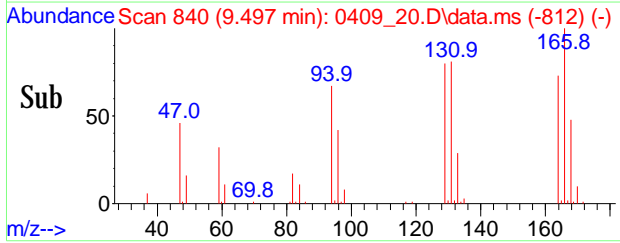
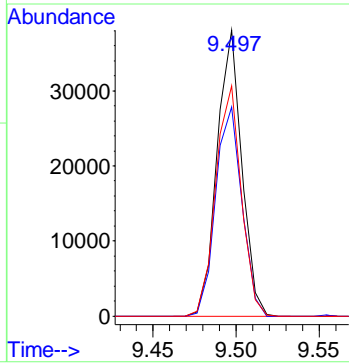
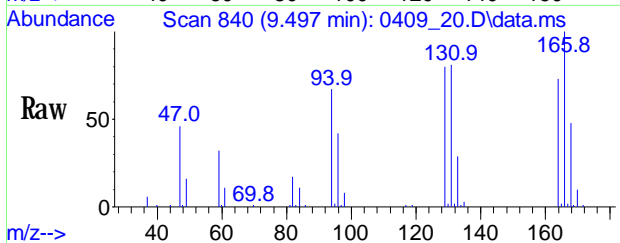
Tgt Ion	Ratio	Resp	Lower	Upper
91	100			
92	59.0	47.7		71.5
65	15.2	9.3		13.9#





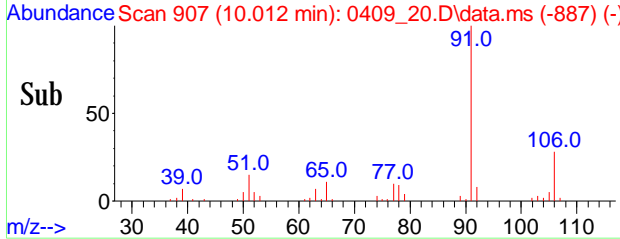
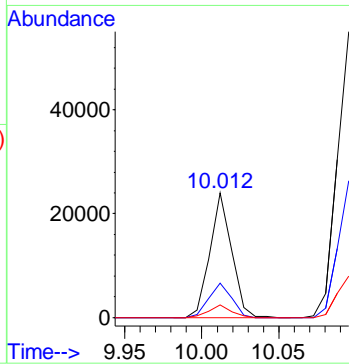
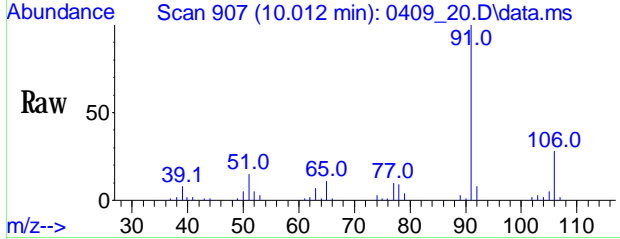
#52
Tetrachloroethene
 Conc: 8S 2.494 ppbv
 RT: 9.497 min Scan# 840
 Delta R.T. 0.000 min
 Lab File: 0409_20.D
 Acq: 09 Apr 2019 05:56 pm

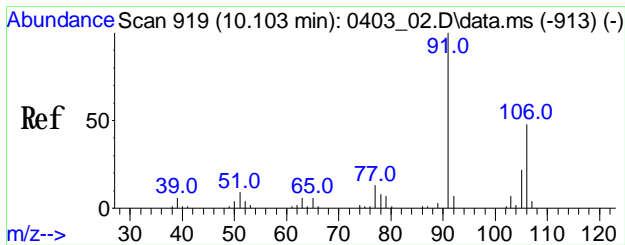
Tgt Ion	Ratio	Resp	Upper
166	100	39325	Lower
164	77.7	62.2	93.2
129	83.3	54.9	82.3#



#56
Ethylbenzene
 Conc: 8S 0.513 ppbv
 RT: 10.012 min Scan# 907
 Delta R.T. 0.000 min
 Lab File: 0409_20.D
 Acq: 09 Apr 2019 05:56 pm

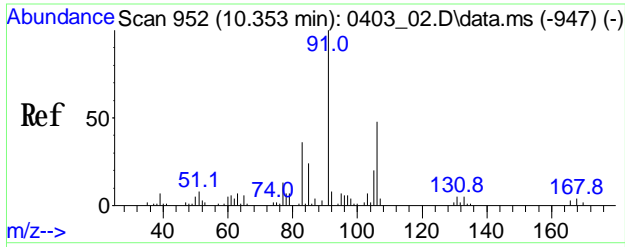
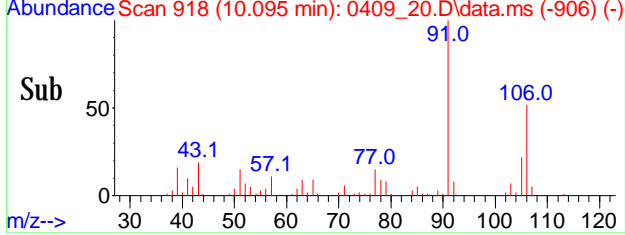
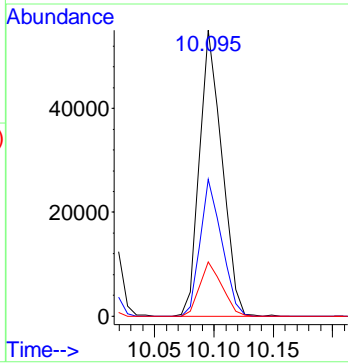
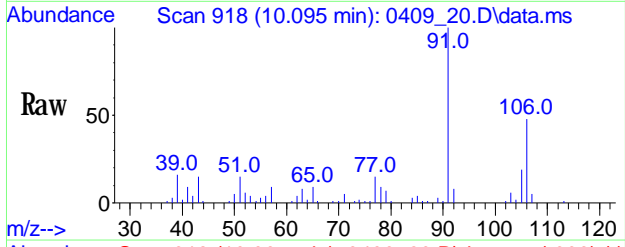
Tgt Ion	Ratio	Resp	Upper
91	100	23356	Lower
106	29.3	12.6	52.6
77	10.6	0.0	29.1





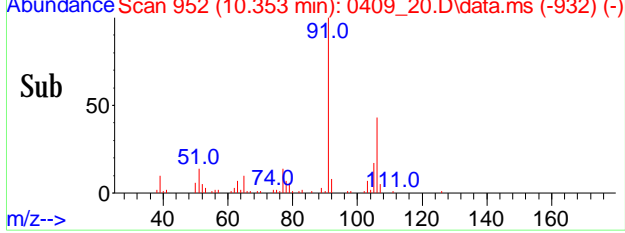
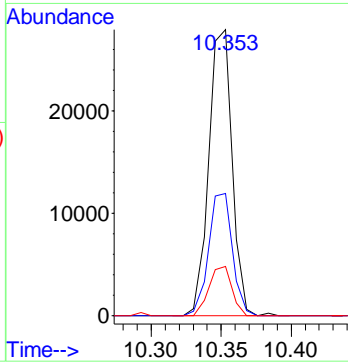
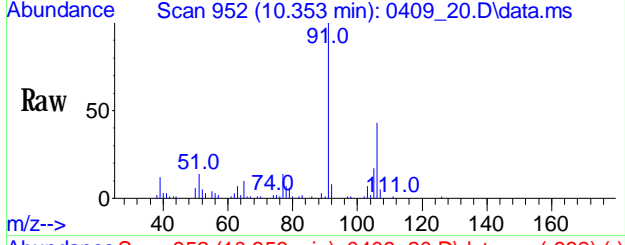
#57
 m p-Xylene
 Conc: 8S 2.061 ppbv
 RT: 10.095 min Scan# 918
 Delta R.T. -0.007 min
 Lab File: 0409_20.D
 Acq: 09 Apr 2019 05:56 pm

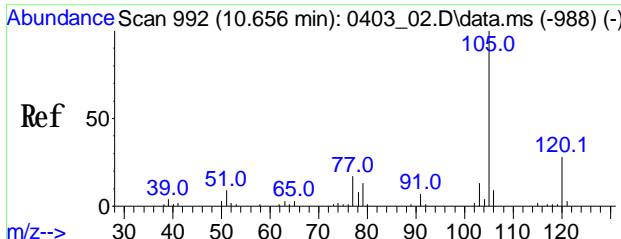
Tgt Ion	Ratio	Resp	Lower	Upper
91	100	71643		
106	46.2	40.9	61.3	
105	19.0	17.8	26.8	



#61
 o-Xylene
 Conc: 8S 0.892 ppbv
 RT: 10.353 min Scan# 952
 Delta R.T. 0.000 min
 Lab File: 0409_20.D
 Acq: 09 Apr 2019 05:56 pm

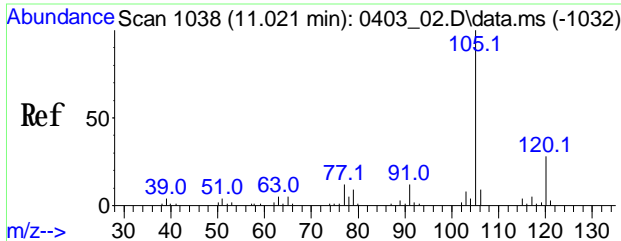
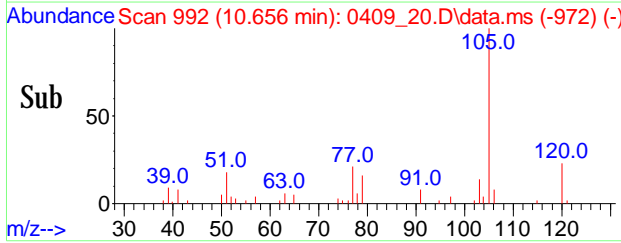
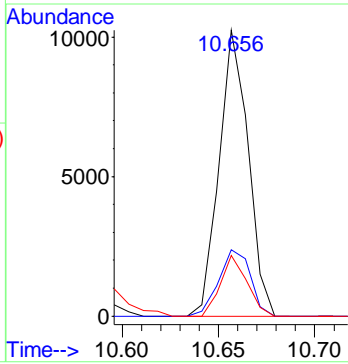
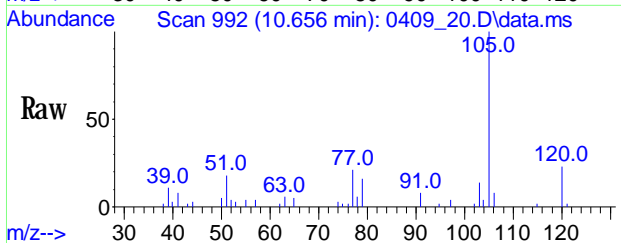
Tgt Ion	Ratio	Resp	Lower	Upper
91	100	32452		
106	43.7	38.3	57.5	
105	16.8	15.2	22.8	





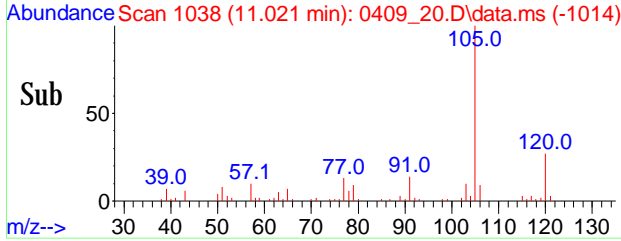
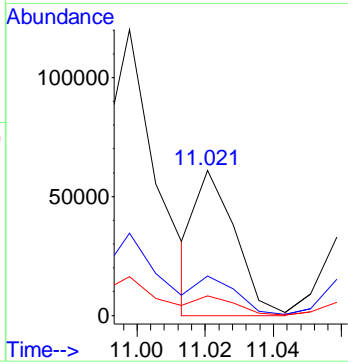
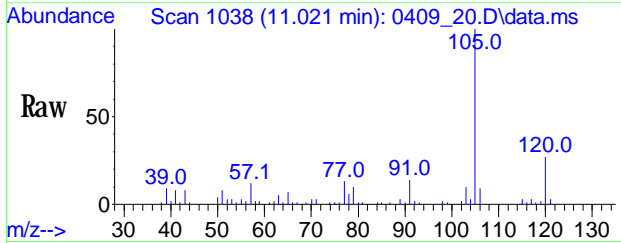
#64
Isopropylbenzene
 Conc: 8S 0.227 ppbv
 RT: 10.656 min Scan# 992
 Delta R.T. 0.000 min
 Lab File: 0409_20.D
 Acq: 09 Apr 2019 05:56 pm

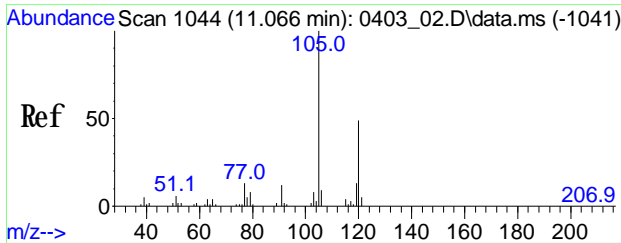
Tgt Ion	Ratio	Resp	Upper
105	100	10847	
120	25.1	22.0	33.0
77	19.4	12.7	19.1#



#66
4-Ethyltoluene
 Conc: 8S 1.009 ppbv
 RT: 11.021 min Scan# 1038
 Delta R.T. 0.000 min
 Lab File: 0409_20.D
 Acq: 09 Apr 2019 05:56 pm

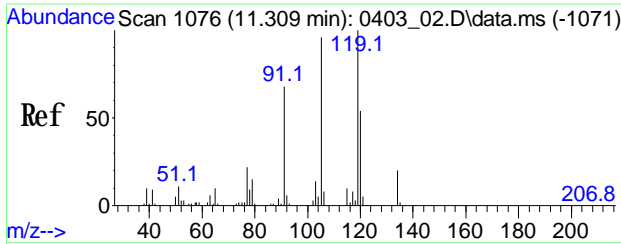
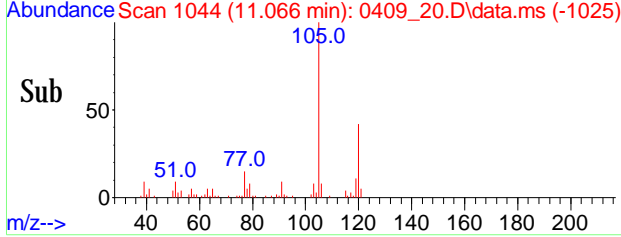
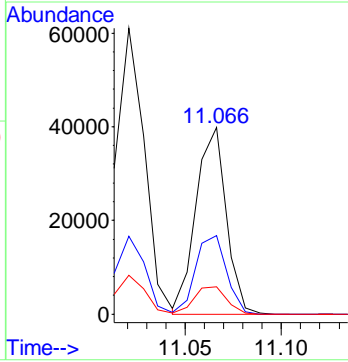
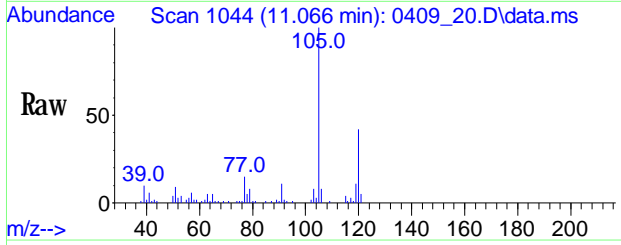
Tgt Ion	Ratio	Resp	Upper
105	100	48596	
120	105.3	25.0	37.4#
77	51.4	9.4	14.0#





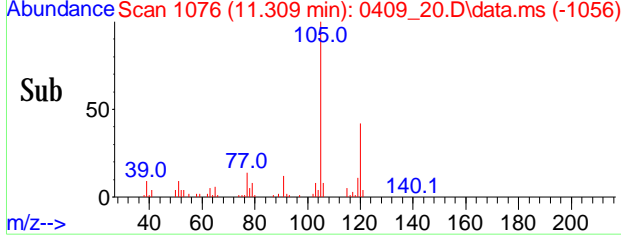
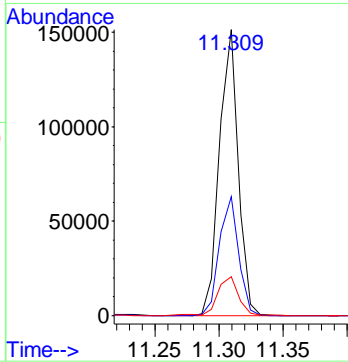
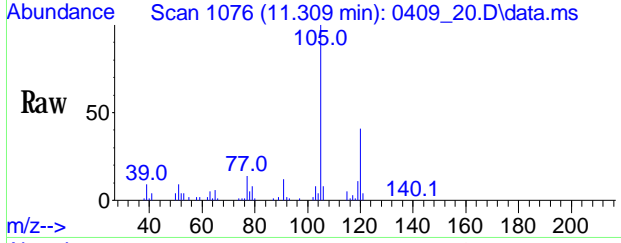
#67
 1,3,5-Trimethylbenzene
 Conc: 8S 1.048 ppbv
 RT: 11.066 min Scan# 1044
 Delta R.T. 0.000 min
 Lab File: 0409_20.D
 Acq: 09 Apr 2019 05:56 pm

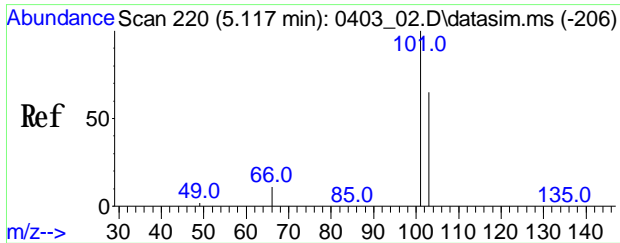
Tgt Ion	Ratio	Resp	Lower	Upper
105	100	43469		
120	43.0	39.7	59.5	
77	15.9	10.2	15.4#	



#68
 1,2,4-Trimethylbenzene
 Conc: 8S 3.772 ppbv
 RT: 11.309 min Scan# 1076
 Delta R.T. 0.000 min
 Lab File: 0409_20.D
 Acq: 09 Apr 2019 05:56 pm

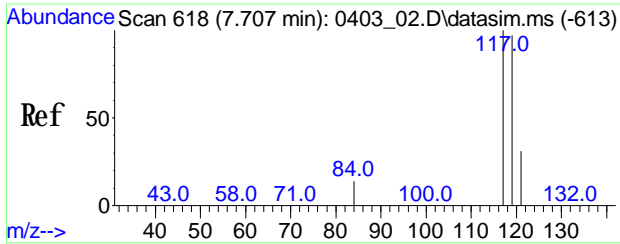
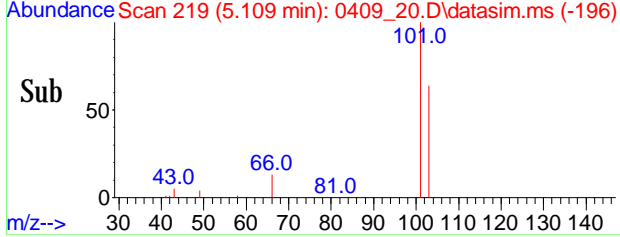
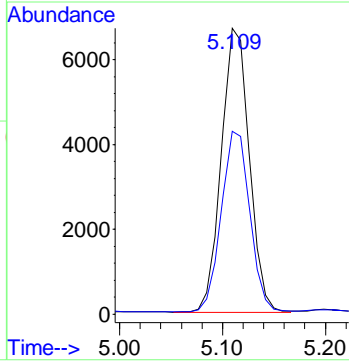
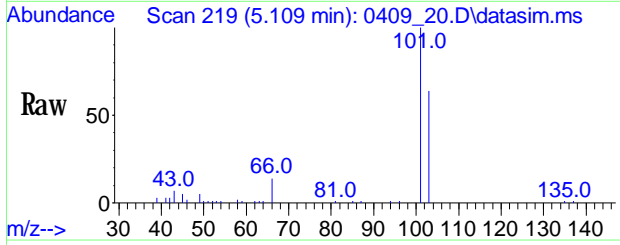
Tgt Ion	Ratio	Resp	Lower	Upper
105	100	153116		
120	42.4	44.5	66.7#	
77	15.2	19.7	29.5#	





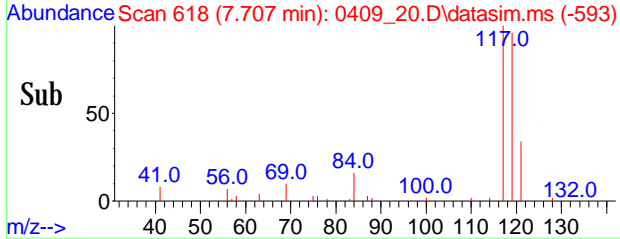
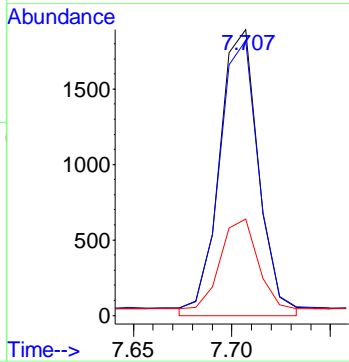
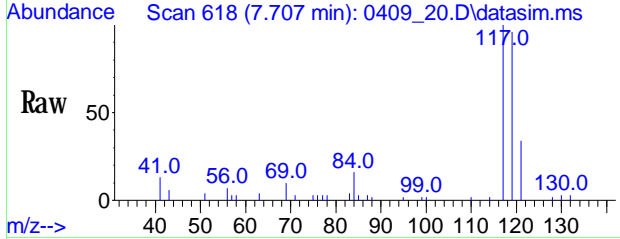
#84
 Trichlorofluoromethane(sim)
 Conc: 8S 0.220 ppbv
 RT: 5.109 min Scan# 219
 Delta R.T. -0.016 min
 Lab File: 0409_20.D
 Acq: 09 Apr 2019 05:56 pm

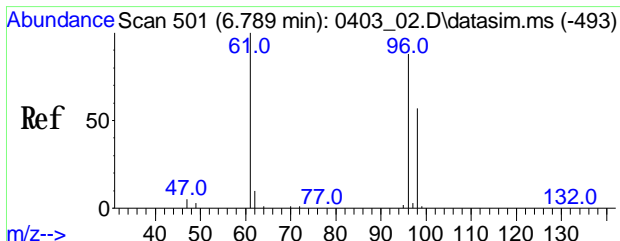
Tgt Ion	Ratio	Resp	Lower	Upper
101	100	12490		
103	64.8	51.9		77.9



#87
 Carbon Tetrachloride(sim)
 Conc: 8S 0.083 ppbv
 RT: 7.704 min Scan# 618
 Delta R.T. 0.000 min
 Lab File: 0409_20.D
 Acq: 09 Apr 2019 05:56 pm

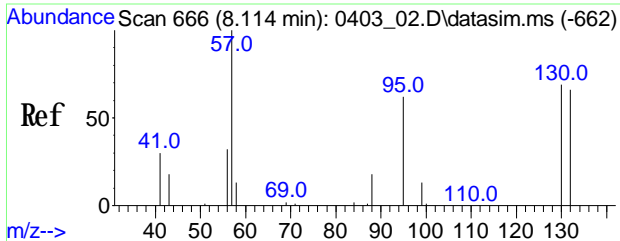
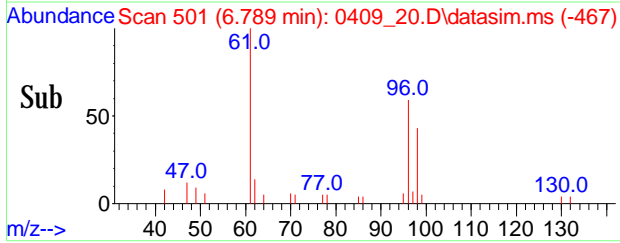
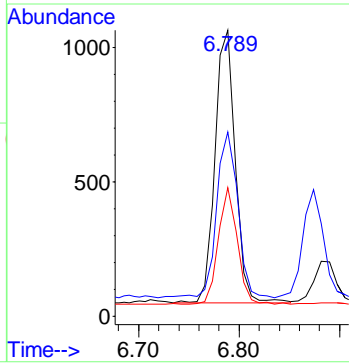
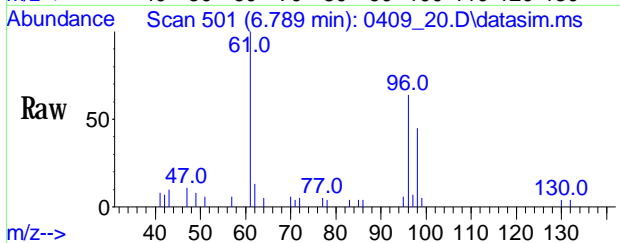
Tgt Ion	Ratio	Resp	Lower	Upper
117	100	1833		
119	100.8	76.6		115.0
121	25.9	24.6		36.8





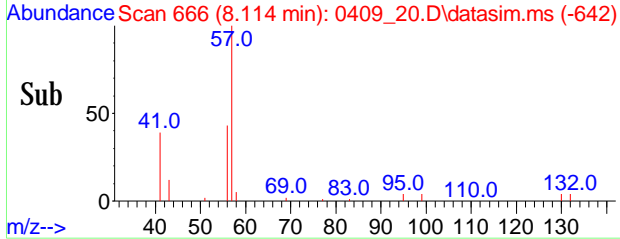
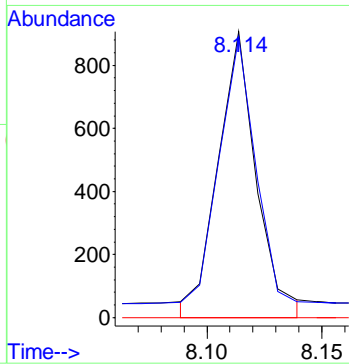
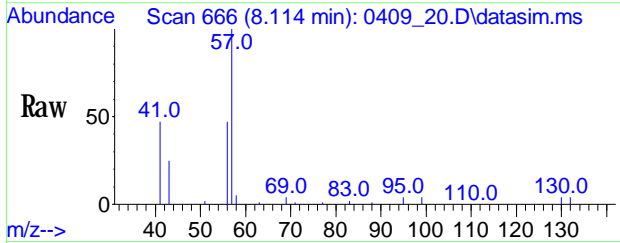
#92
 Cis-1,2-Dichloroethene(sim)
 Conc: 8S 0.055 ppbv
 RT: 6.789 min Scan# 501
 Delta R.T. 0.000 min
 Lab File: 0409_20.D
 Acq: 09 Apr 2019 05:56 pm

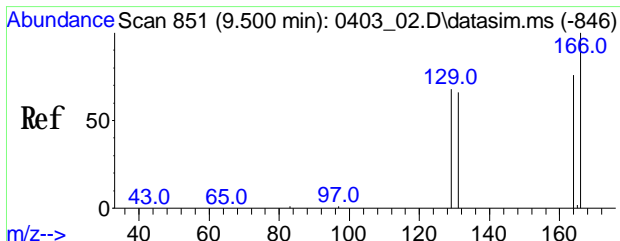
Tgt Ion	Ratio	Resp	Lower	Upper
61	100			
96	64.1	69.7		104.5#
98	40.3	45.3		67.9#



#97
 Trichloroethene(sim)
 Conc: 8S 0.043 ppbv
 RT: 8.111 min Scan# 666
 Delta R.T. 0.000 min
 Lab File: 0409_20.D
 Acq: 09 Apr 2019 05:56 pm

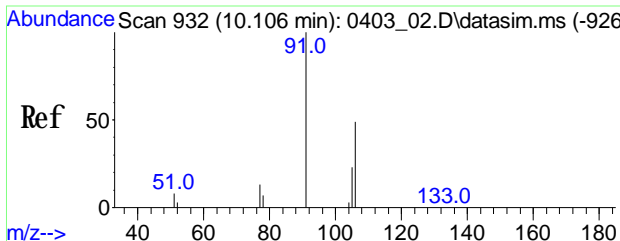
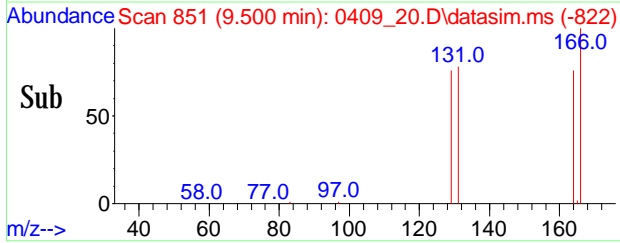
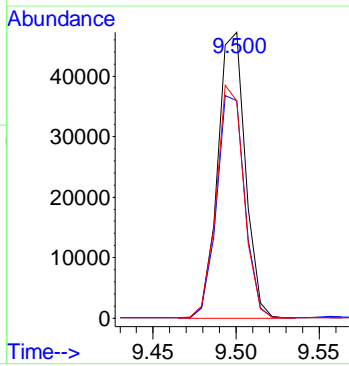
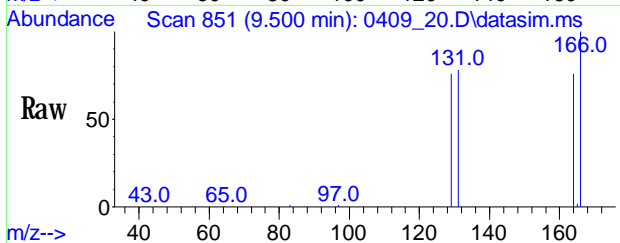
Tgt Ion	Ratio	Resp	Lower	Upper
130	100			715
132	85.5	78.0		117.0
97	62.8	47.2		70.8





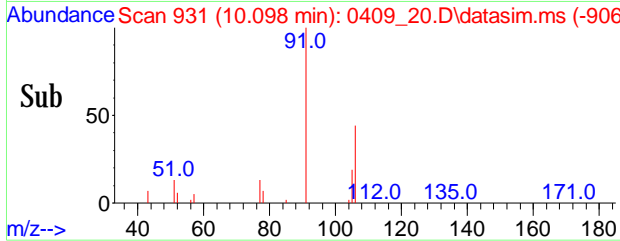
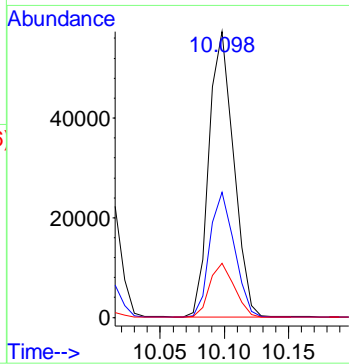
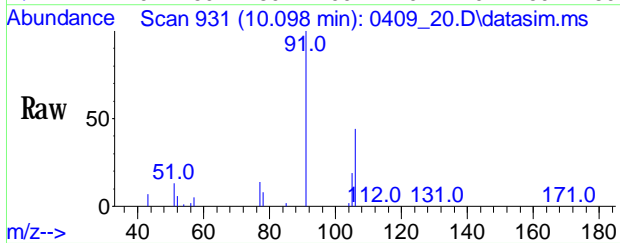
#103
 Tetrachloroethene(sim)
 Conc: 8S 2.186 ppbv
 RT: 9.497 min Scan# 851
 Delta R.T. 0.000 min
 Lab File: 0409_20.D
 Acq: 09 Apr 2019 05:56 pm

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	39325		
164	77.7	57.7	97.7	
129	83.3	48.6	88.6	



#106
 m,p-Xylene(sim)
 Conc: 8S 2.018 ppbv
 RT: 10.098 min Scan# 931
 Delta R.T. -0.007 min
 Lab File: 0409_20.D
 Acq: 09 Apr 2019 05:56 pm

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	76223		
106	43.7	44.3	54.1#	
105	19.1	17.7	26.5	



1
AIR ANALYSIS DATA SHEET

CLIENT ID

SS-3 5X

Client:	WALDENE	Lab:	Phoenix Env. Labs
SDG No.:	GCC90508	Lab Sample ID:	CC90509 5X
Canister:	21370	Lab File ID:	0409_31.D
Instrument:	CHEM20	Column:	RTX-1 60M
Date Received:	04/08/19		
Purge Volume	200	(cc)	04/10/19
Date Analyzed:	04/10/19		
Matrix:	AIR	Dilution Factor:	5

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	2.91	U	2.91	2.91	r
75-71-8	Dichlorodifluoromethane	1.74		1.01	1.01	r
74-87-3	Chloromethane	2.42	U	2.42	2.42	r
106-99-0	1,3-Butadiene	2.26	U	2.26	2.26	r
75-00-3	Chloroethane	1.90	U	1.90	1.90	r
64-17-5	Ethanol	2.66	U	2.66	2.66	r
67-64-1	Acetone	2.11	U	2.11	2.11	r
67-63-0	Isopropylalcohol	2.04	U	2.04	2.04	r
107-13-1	Acrylonitrile	2.31	U	2.31	2.31	r
75-09-2	Methylene Chloride	4.32	U	4.32	4.32	r
75-15-0	Carbon Disulfide	1.61	U	1.61	1.61	r
156-60-5	Trans-1,2-Dichloroethene	10.1		1.26	1.26	r
1634-04-4	Methyl tert-butyl ether(MTBE)	1.39	U	1.39	1.39	r
78-93-3	Methyl Ethyl Ketone	1.70	U	1.70	1.70	r
156-59-2	Cis-1,2-Dichloroethene	217	E	0.252	0.252	
110-54-3	Hexane	1.42	U	1.42	1.42	r
141-78-6	Ethyl acetate	1.39	U	1.39	1.39	r
109-99-9	Tetrahydrofuran	1.70	U	1.70	1.70	r
71-43-2	Benzene	1.57	U	1.57	1.57	r
110-82-7	Cyclohexane	1.45	U	1.45	1.45	r
79-01-6	Trichloroethene	157		0.186	0.186	r
142-82-5	Heptane	1.22	U	1.22	1.22	r
108-10-1	4-Methyl-2-pentanone(MIBK)	1.22	U	1.22	1.22	r
10061-02-6	trans-1,3-Dichloropropene	1.10	U	1.10	1.10	r
108-88-3	Toluene	1.48		1.33	1.33	r
591-78-6	2-Hexanone(MBK)	1.22	U	1.22	1.22	r
127-18-4	Tetrachloroethene	742	E	0.184	0.184	
630-20-6	1,1,1,2-Tetrachloroethane	0.729	U	0.729	0.729	r
108-90-7	Chlorobenzene	1.09	U	1.09	1.09	r
100-41-4	Ethylbenzene	1.15	U	1.15	1.15	r
100-42-5	Styrene	1.17	U	1.17	1.17	r
95-47-6	o-Xylene	1.15	U	1.15	1.15	r
98-82-8	Isopropylbenzene	1.02	U	1.02	1.02	r
622-96-8	4-Ethyltoluene	1.02	U	1.02	1.02	r
108-67-8	1,3,5-Trimethylbenzene	1.02	U	1.02	1.02	r
95-63-6	1,2,4-Trimethylbenzene	1.02	U	1.02	1.02	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

SS-3 5X

Client:	<u>WALDENE</u>	Lab:	<u>Phoenix Env. Labs</u>
SDG No.:	<u>GCC90508</u>	Lab Sample ID:	<u>CC90509 5X</u>
Canister:	<u>21370</u>	Lab File ID:	<u>0409_31.D</u>
Instrument:	<u>CHEM20</u>	Column:	<u>RTX-1 60M</u>
Purge Volume	<u>200</u> (cc)	Date Received:	<u>04/08/19</u>
Matrix:	<u>AIR</u>	Date Analyzed:	<u>04/10/19</u>
		Dilution Factor:	<u>5</u>

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.716	U	0.716	0.716	r
75-01-4	Vinyl Chloride(sim)	0.391	U	0.391	0.391	r
74-83-9	Bromomethane(sim)	1.29	U	1.29	1.29	r
75-69-4	Trichlorofluoromethane(sim)	0.891	U	0.891	0.891	r
107-06-2	1,2-Dichloroethane(sim)	1.24	U	1.24	1.24	r
71-55-6	1,1,1-Trichloroethane(sim)	0.917	U	0.917	0.917	r
56-23-5	Carbon Tetrachloride(sim)	0.159	U	0.159	0.159	r
75-35-4	1,1-Dichloroethene(sim)	0.252	U	0.252	0.252	r
76-13-1	Trichlorotrifluoroethane(sim)	0.653	U	0.653	0.653	r
75-34-3	1,1-Dichloroethane(sim)	1.24	U	1.24	1.24	r
67-66-3	Chloroform(sim)	1.02	U	1.02	1.02	r
78-87-5	1,2-dichloropropane(sim)	1.08	U	1.08	1.08	r
75-27-4	Bromodichloromethane(sim)	0.747	U	0.747	0.747	r
123-91-1	1,4-Dioxane(sim)	1.39	U	1.39	1.39	r
10061-01-5	cis-1,3-Dichloropropene(sim)	1.10	U	1.10	1.10	r
79-00-5	1,1,2-Trichloroethane(sim)	0.917	U	0.917	0.917	r
124-48-1	Dibromochloromethane(sim)	0.587	U	0.587	0.587	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.651	U	0.651	0.651	r
75-25-2	Bromoform(sim)	0.484	U	0.484	0.484	r
179601-23-1	m,p-Xylene(sim)	1.44		1.15	1.15	r
79-34-5	1,1,1,2-Tetrachloroethane(sim)	0.729	U	0.729	0.729	r
100-44-7	Benzyl chloride(sim)	0.966	U	0.966	0.966	r
541-73-1	1,3-Dichlorobenzene(sim)	0.832	U	0.832	0.832	r
106-46-7	1,4-Dichlorobenzene(sim)	0.832	U	0.832	0.832	r
135-98-8	sec-Butylbenzene(sim)	0.911	U	0.911	0.911	r
99-87-6	4-Isopropyltoluene(sim)	0.911	U	0.911	0.911	r
95-50-1	1,2-Dichlorobenzene(sim)	0.832	U	0.832	0.832	r
104-51-8	n-Butylbenzene(sim)	0.911	U	0.911	0.911	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.674	U	0.674	0.674	r
87-68-3	Hexachlorobutadiene(sim)	0.469	U	0.469	0.469	r

FORM I AIR

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

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2019\CHEM20\04APR\09\
 Data File : 0409_31.D
 Acq On : 10 Apr 2019 01:24 am
 Operator : CORTEX\ms
 Client ID : SS-3 5X
 Lab ID : CC90509 5X
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 10 10:28:20 2019
 Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_0409.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Wed Apr 10 09:07:16 2019
 Response via : Initial Calibration

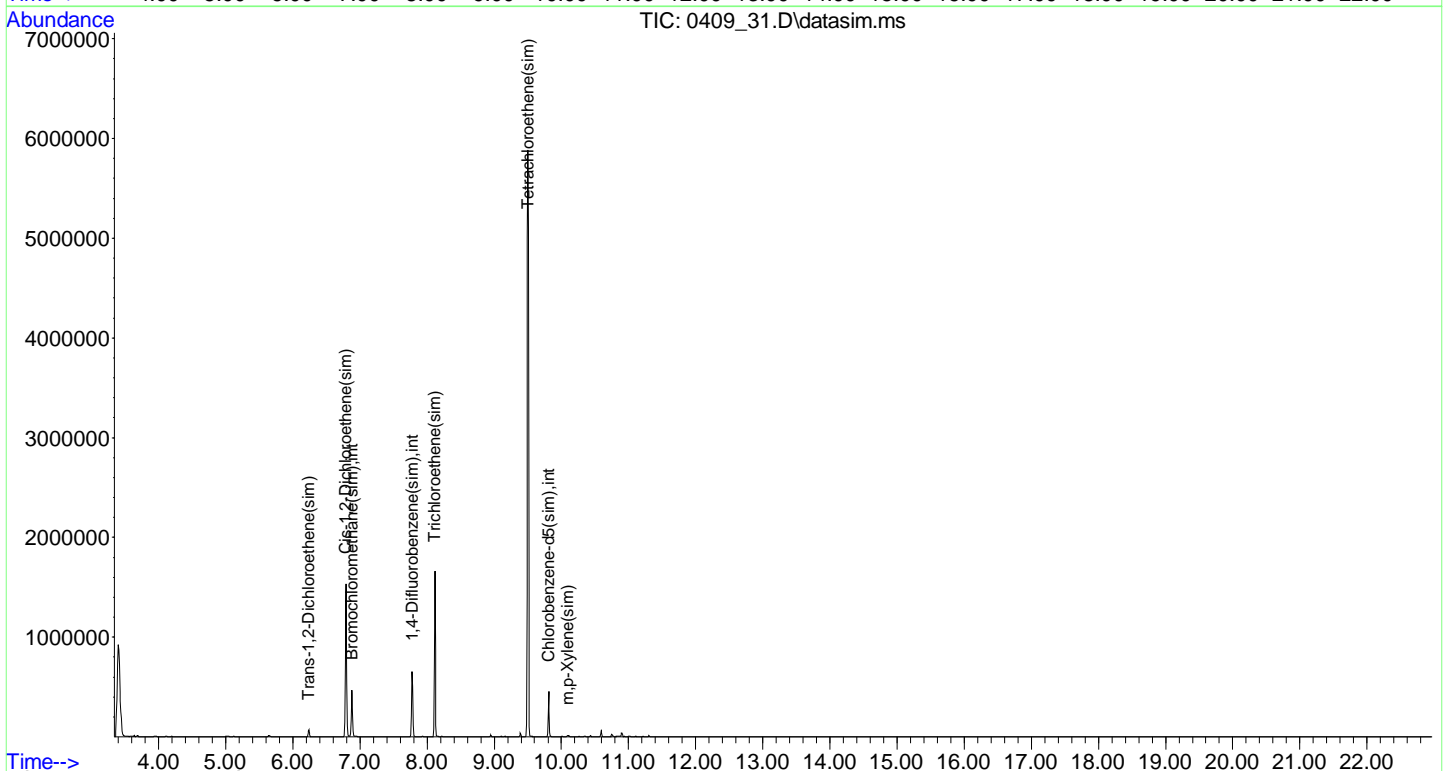
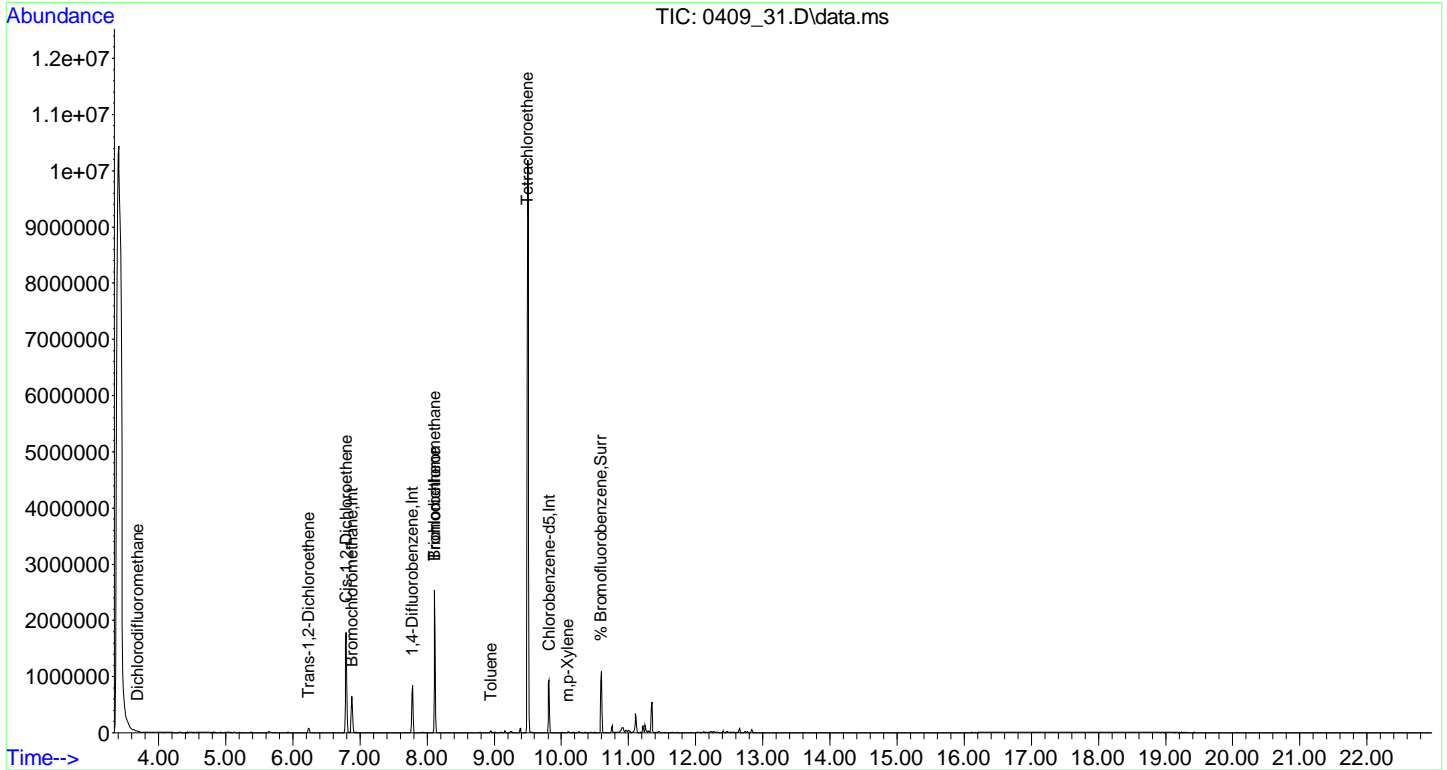
Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
Internal Standards						
1) Bromchloromethane	6.879	130	113392	10.000	ng	0.00
36) 1,4-Difluorobenzene	7.781	114	368048	10.000	ng	0.00
53) Chlorobenzene-d5	9.815	82	177037	10.000	ng	# 0.00
80) Bromchloromethane(sim)	6.882	130	155825	10.000	ng	# 0.00
94) 1,4-Difluorobenzene(sim)	7.775	114	428062	10.000	ng	0.00
104) Chlorobenzene-d5(sim)	9.810	82	181597	10.000	ng	# 0.00
System Monitoring Compounds						
62) % Bromfluorobenzene	10.596	95	242887	10.465	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	104.70%
Target Compounds						
3) Dichlorodifluoromethane	3.687	85	10111	0.348	ppbv#	94
22) Trans-1,2-Dichloroethene	6.234	61	39307	2.027	ppbv#	78
26) Cis-1,2-Dichloroethene	6.794	61	807684	43.376	ppbv#	69
38) Bromdichloromethane	8.111	83	5802	0.241	ppbv#	78
39) Trichloroethene	8.111	130	434986	31.480	ppbv	89
48) Toluene	8.949	91	8934	0.296	ppbv#	96
52) Tetrachloroethene	9.498	166	2169603	148.451	ppbv	91
57) m p-Xylene	10.095	91	9115	0.285	ppbv	92
90) Trans-1,2-Dichloroethe...	6.237	61	45157	1.809	ppbv#	78
92) Cis-1,2-Dichloroethene...	6.789	61	941141	39.999	ppbv#	71
97) Trichloroethene(sim)	8.111	130	434975	28.205	ppbv	92
103) Tetrachloroethene(sim)	9.498	166	2169785	129.047	ppbv	91
106) m p-Xylene(sim)	10.098	91	9587	0.287	ppbv#	93

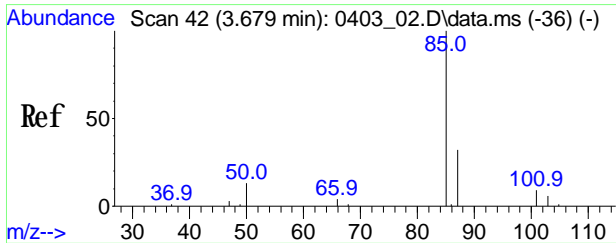
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2019\CHEM20\04APR\09\
Data File : 0409_31.D
Acq On : 10 Apr 2019 01:24 am
Operator : CORTEX\nms
Client ID : SS-3 5X
Lab ID : CC90509 5X
ALS Vial : 1 Sample Multiplier: 1

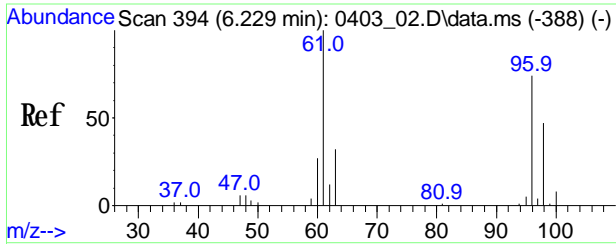
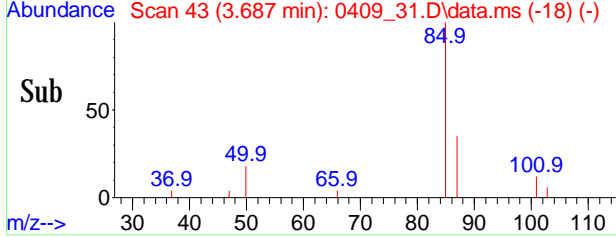
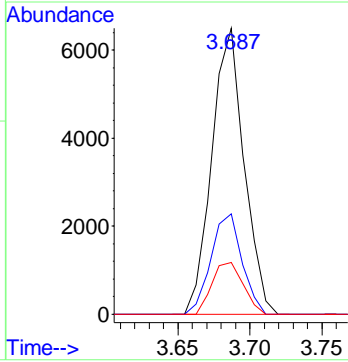
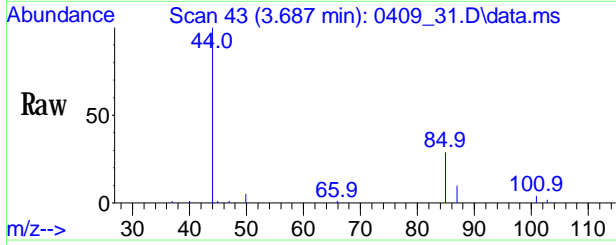
Quant Time: Apr 10 10:28:20 2019
Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_0409.M
Quant Title : VOA Standards for 5 point calibration
Last Update : Wed Apr 10 09:07:16 2019
Response via : Initial Calibration





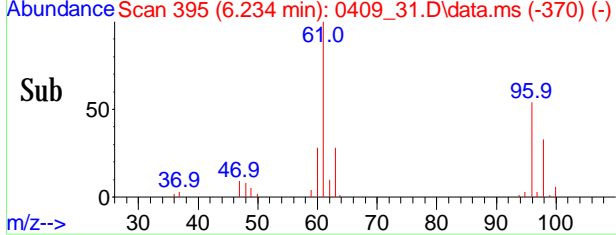
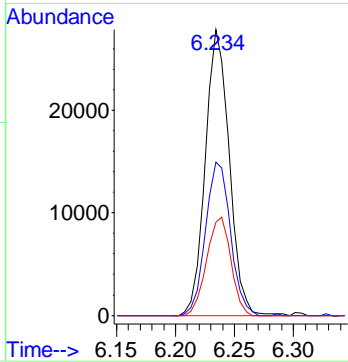
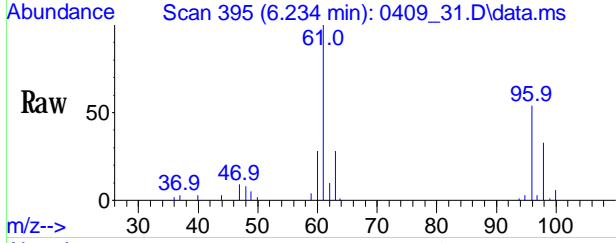
#3
 Dichlorodifluoromethane
 Conc: 8S 0.348 ppbv
 RT: 3.687 min Scan# 43
 Delta R.T. 0.000 min
 Lab File: 0409_31.D
 Acq: 10 Apr 2019 01:24 am

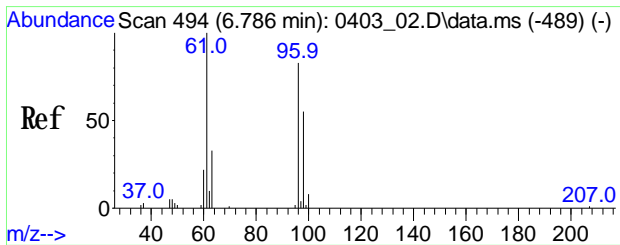
Tgt Ion	Ratio	Resp	Upper
85	100	10111	
87	33.7	25.6	38.4
50	17.4	9.4	14.2#



#22
 Trans-1,2-Dichloroethene
 Conc: 8S 2.027 ppbv
 RT: 6.234 min Scan# 395
 Delta R.T. -0.005 min
 Lab File: 0409_31.D
 Acq: 10 Apr 2019 01:24 am

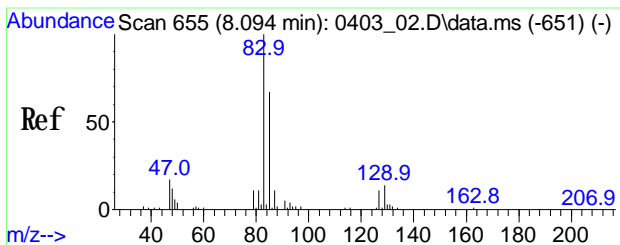
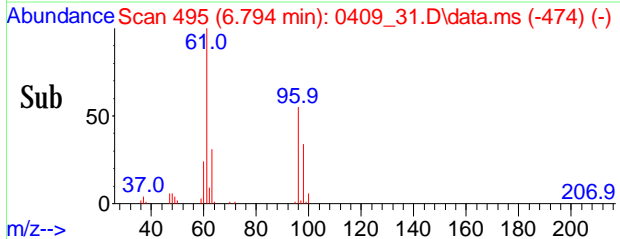
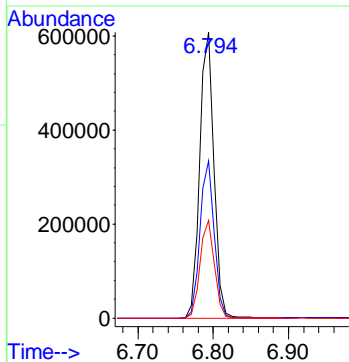
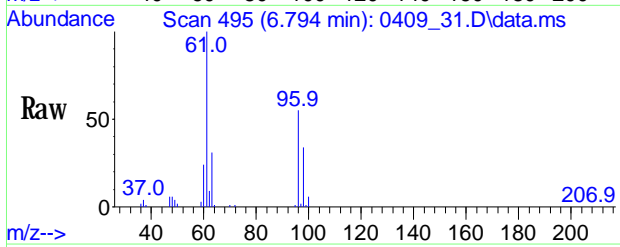
Tgt Ion	Ratio	Resp	Upper
61	100	39307	
96	55.9	60.6	90.8#
98	34.8	38.9	58.3#





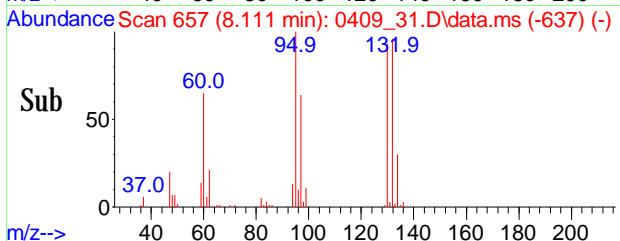
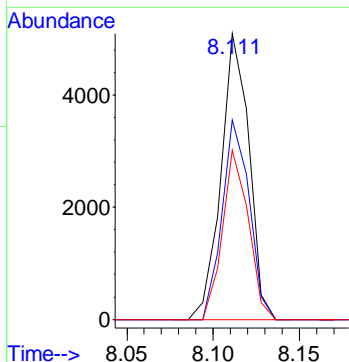
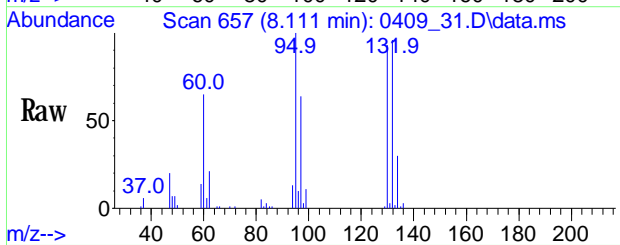
#26
 Cis-1,2-Dichloroethene
 Conc: 8S 43.376 ppby
 RT: 6.794 min Scan# 495
 Delta R.T. -0.000 min
 Lab File: 0409_31.D
 Acq: 10 Apr 2019 01:24 am

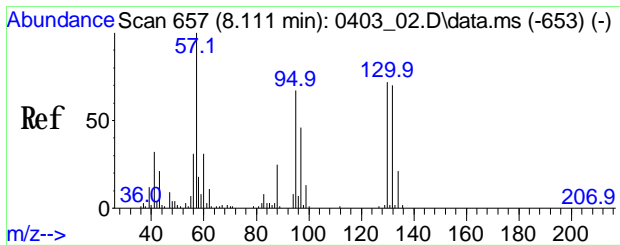
Tgt Ion	Ratio	Resp	Upper
61	100	807684	Lower
96	55.2	67.8	101.8#
98	34.4	43.8	65.6#



#38
 Bromdichloromethane
 Conc: 8S 0.241 ppby
 RT: 8.111 min Scan# 657
 Delta R.T. 0.017 min
 Lab File: 0409_31.D
 Acq: 10 Apr 2019 01:24 am

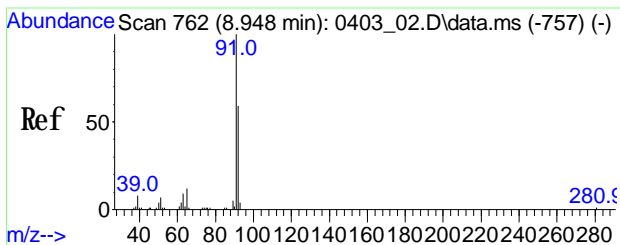
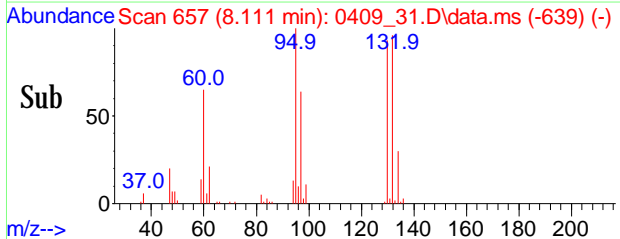
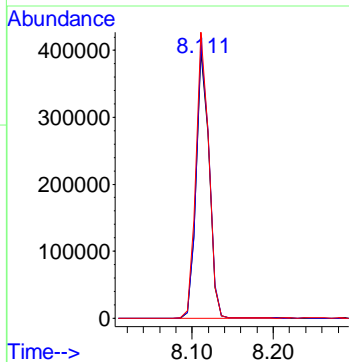
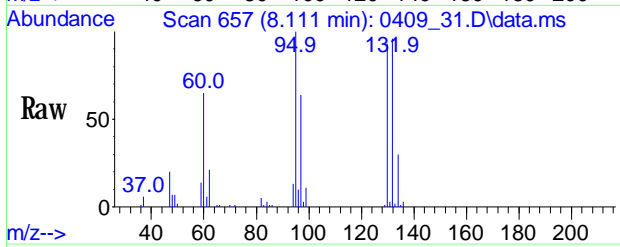
Tgt Ion	Ratio	Resp	Upper
83	100	5802	Lower
85	67.7	44.1	84.1
129	54.9	0.0	32.9#





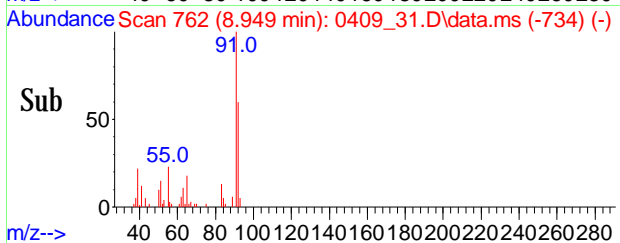
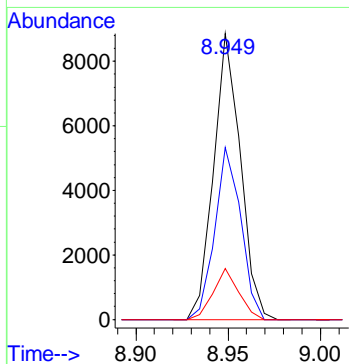
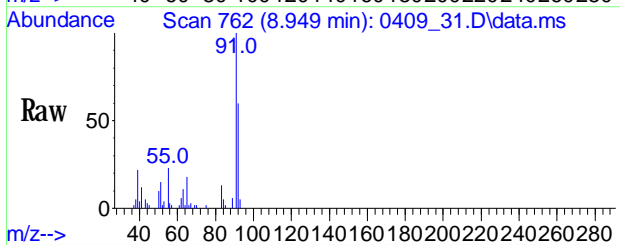
#39
 Trichloroethene
 Conc: 8S 31.480 ppbv
 RT: 8.111 min Scan# 657
 Delta R.T. -0.000 min
 Lab File: 0409_31.D
 Acq: 10 Apr 2019 01:24 am

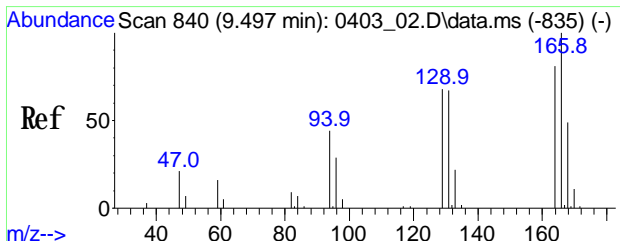
Tgt Ion	Ratio	Resp	Lower	Upper
130	100	434986		
132	102.1	78.0		117.0
95	107.1	73.0		109.4



#48
 Toluene
 Conc: 8S 0.296 ppbv
 RT: 8.949 min Scan# 762
 Delta R.T. 0.000 min
 Lab File: 0409_31.D
 Acq: 10 Apr 2019 01:24 am

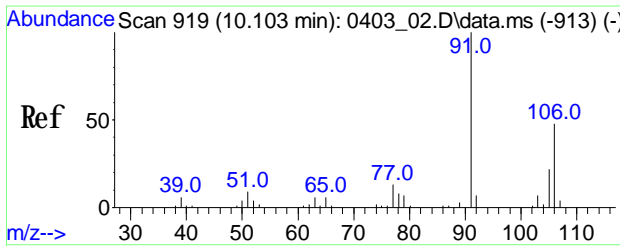
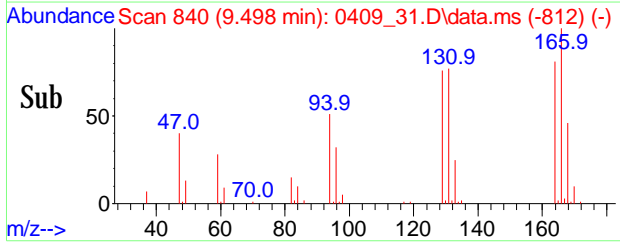
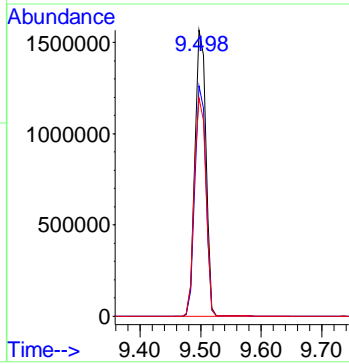
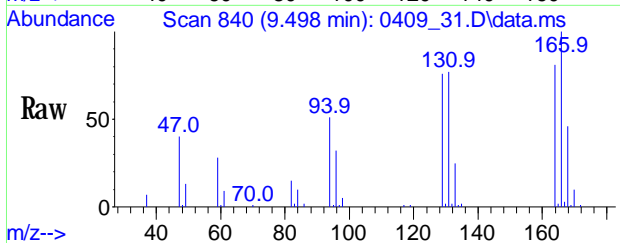
Tgt Ion	Ratio	Resp	Lower	Upper
91	100	8934		
92	58.3	47.7		71.5
65	17.0	9.3		13.9#





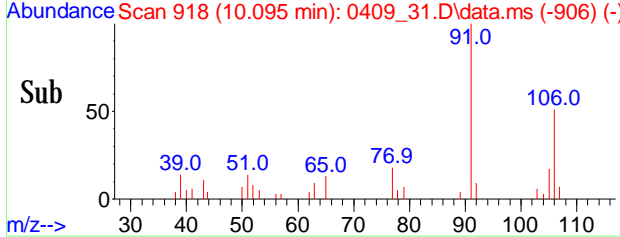
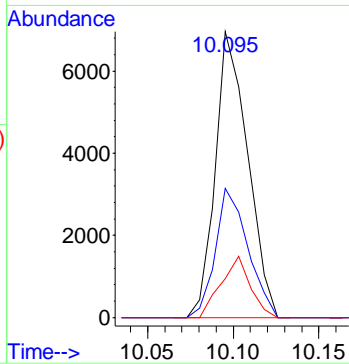
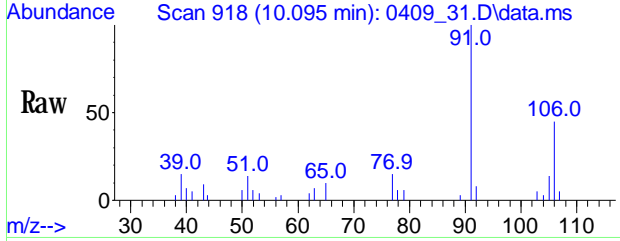
#52
 Tetrachloroethene
 Conc: 8S 148.451 ppby
 RT: 9.498 min Scan# 840
 Delta R.T. 0.000 min
 Lab File: 0409_31.D
 Acq: 10 Apr 2019 01:24 am

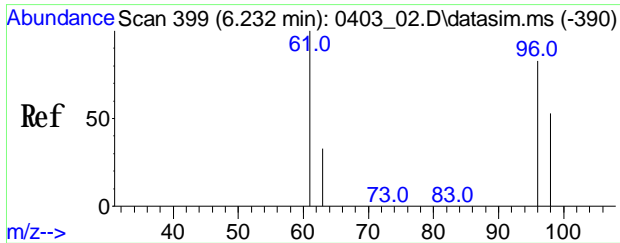
Tgt Ion	Ratio	Resp	Lower	Upper
166	100	2169603		
164	80.5	62.2	93.2	
129	80.6	54.9	82.3	



#57
 m p-Xylene
 Conc: 8S 0.285 ppby
 RT: 10.095 min Scan# 918
 Delta R.T. -0.007 min
 Lab File: 0409_31.D
 Acq: 10 Apr 2019 01:24 am

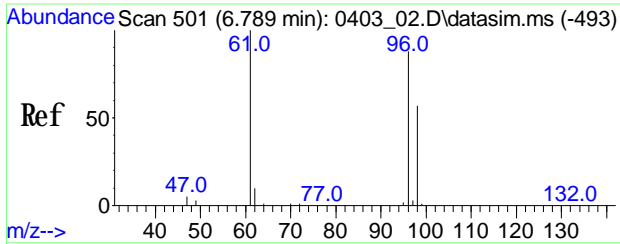
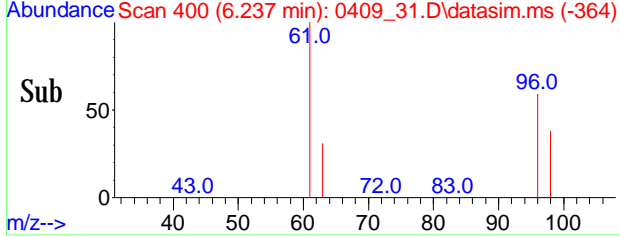
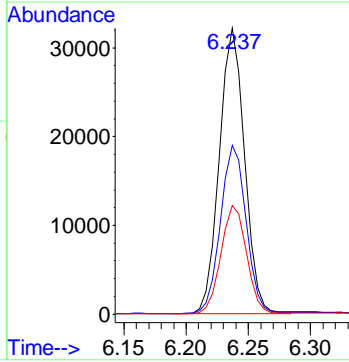
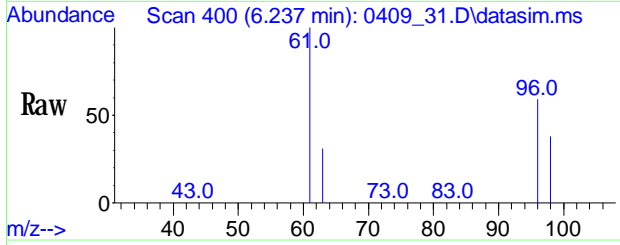
Tgt Ion	Ratio	Resp	Lower	Upper
91	100	9115		
106	45.3	40.9	61.3	
105	19.3	17.8	26.8	





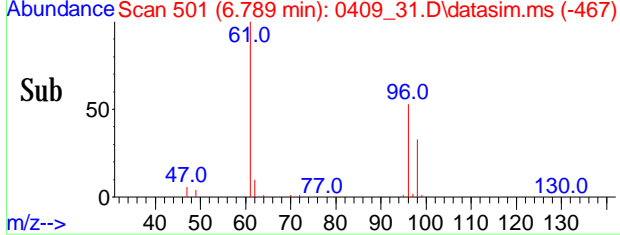
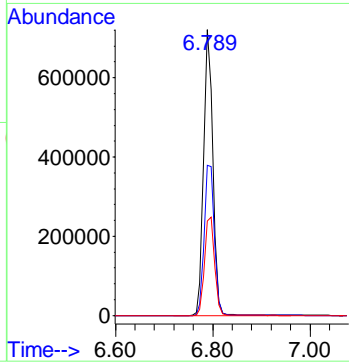
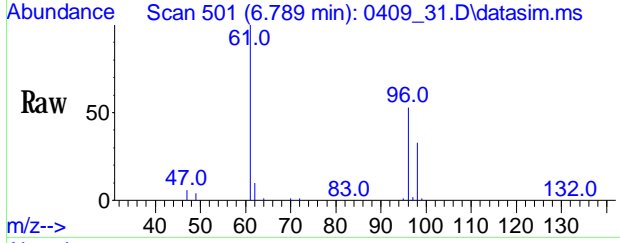
#90
 Trans-1,2-Dichloroethene (sim)
 Conc: 8S 1.809 ppbv
 RT: 6.237 min Scan# 400
 Delta R.T. 0.000 min
 Lab File: 0409_31.D
 Acq: 10 Apr 2019 01:24 am

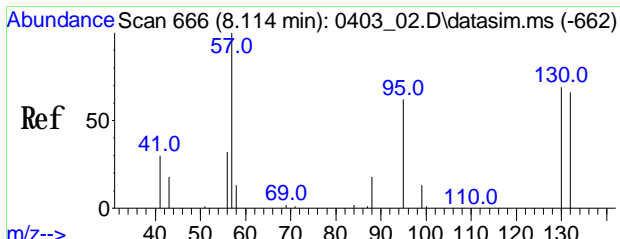
Tgt Ion	Ratio	Resp	Upper
61	100	45157	
96	59.7	64.6	97.0#
98	38.5	41.7	62.5#



#92
 Cis-1,2-Dichloroethene (sim)
 Conc: 8S 39.999 ppbv
 RT: 6.789 min Scan# 501
 Delta R.T. 0.000 min
 Lab File: 0409_31.D
 Acq: 10 Apr 2019 01:24 am

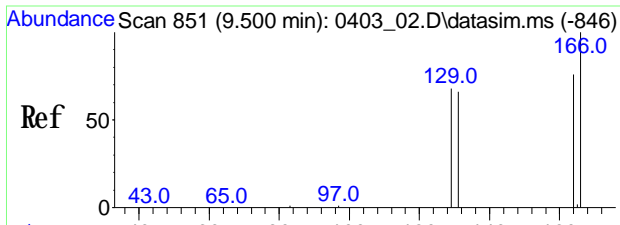
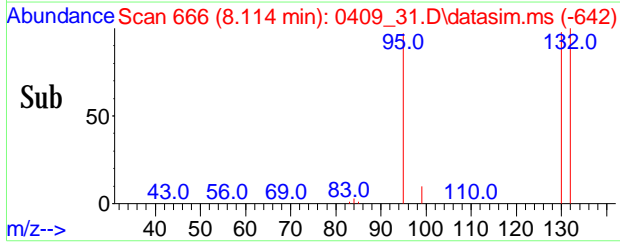
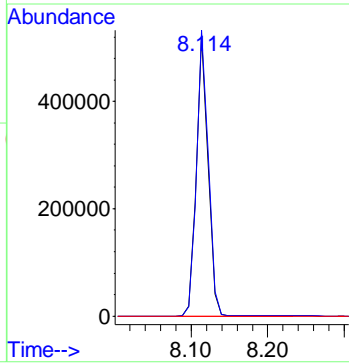
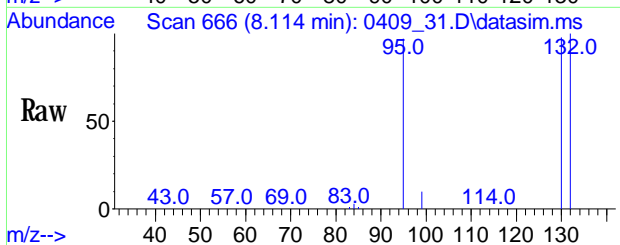
Tgt Ion	Ratio	Resp	Upper
61	100	941141	
96	58.0	69.7	104.5#
98	37.3	45.3	67.9#





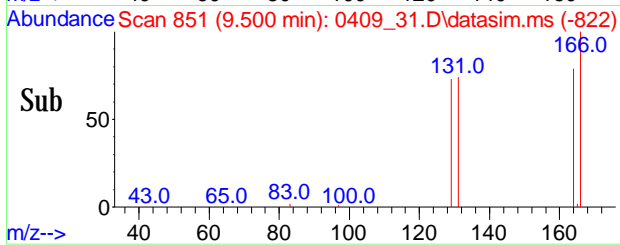
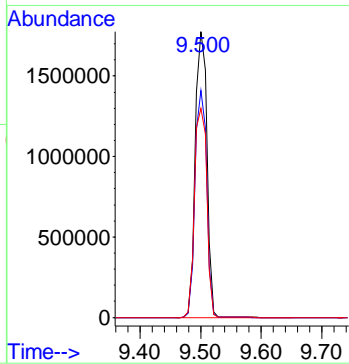
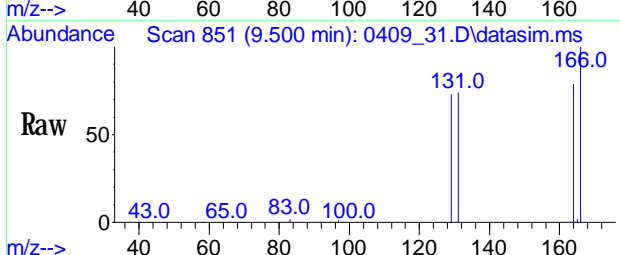
#97
 Trichloroethene(sim)
 Conc: 8S 28.205 ppbv
 RT: 8.111 min Scan# 666
 Delta R.T. 0.000 min
 Lab File: 0409_31.D
 Acq: 10 Apr 2019 01:24 am

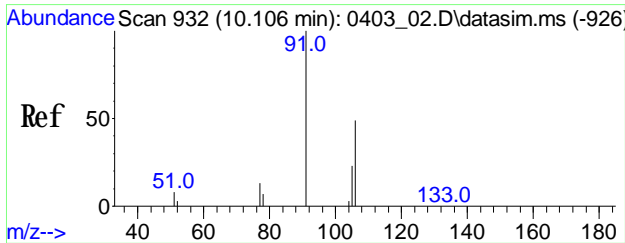
Tgt Ion	Ratio	Resp	Lower	Upper
130	100	434975		
132	102.2	78.0	117.0	
97	69.1	47.2	70.8	



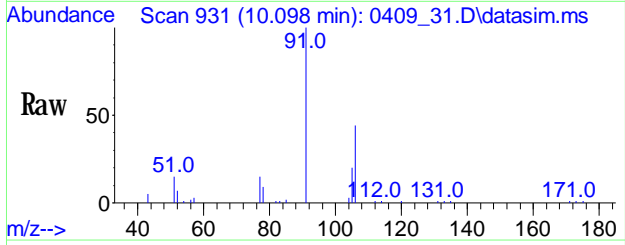
#103
 Tetrachloroethene(sim)
 Conc: 8S 129.047 ppbv
 RT: 9.498 min Scan# 851
 Delta R.T. 0.000 min
 Lab File: 0409_31.D
 Acq: 10 Apr 2019 01:24 am

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	2169785		
164	80.5	57.7	97.7	
129	80.6	48.6	88.6	

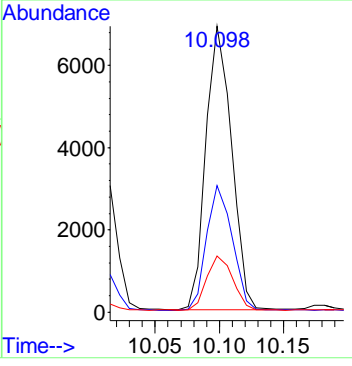
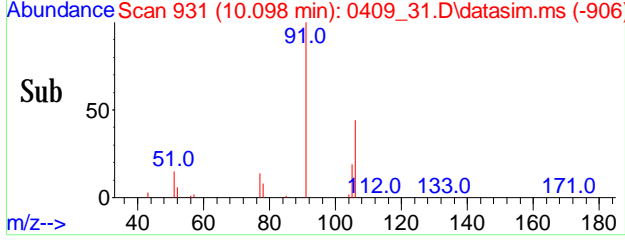




#106
 m p-Xylene (sim)
 Conc: 8S 0.287 ppbv
 RT: 10.098 min Scan# 931
 Delta R.T. -0.007 min
 Lab File: 0409_31.D
 Acq: 10 Apr 2019 01:24 am



Tgt Ion	Ratio	Resp	Upper
91	100	9587	
106	43.9	44.3	54.1#
105	19.6	17.7	26.5



1
AIR ANALYSIS DATA SHEET

CLIENT ID

SS-3 75X

Client: WALDENE Lab: Phoenix Env. Labs
 SDG No.: GCC90508 Lab Sample ID: CC90509 75X
 Canister: 21370 Lab File ID: 0409_47.D
 Instrument: CHEM20 Column: RTX-1 60M Date Received: 04/08/19
 Purge Volume 200 (cc) Date Analyzed: 04/10/19
 Matrix: AIR Dilution Factor: 75

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
75-71-8	Dichlorodifluoromethane	15.2	U	15.2	15.2	
156-59-2	Cis-1,2-Dichloroethene	165	D	3.79	3.79	r
79-01-6	Trichloroethene	114	X	2.79	2.79	
108-88-3	Toluene	19.9	U	19.9	19.9	
127-18-4	Tetrachloroethene	674	D	2.77	2.77	r
156-60-5	Trans-1,2-Dichloroethene(sim)	18.9	U	18.9	18.9	
179601-23-1	m,p-Xylene(sim)	17.3	U	17.3	17.3	

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.

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2019\CHEM20\04APR\09\
 Data File : 0409_47.D
 Acq On : 10 Apr 2019 12:05 pm
 Operator : CORTEX\ms
 Client ID : SS-3 75X
 Lab ID : CC90509 75X
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 10 16:00:20 2019
 Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_0409.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Wed Apr 10 09:42:38 2019
 Response via : Initial Calibration

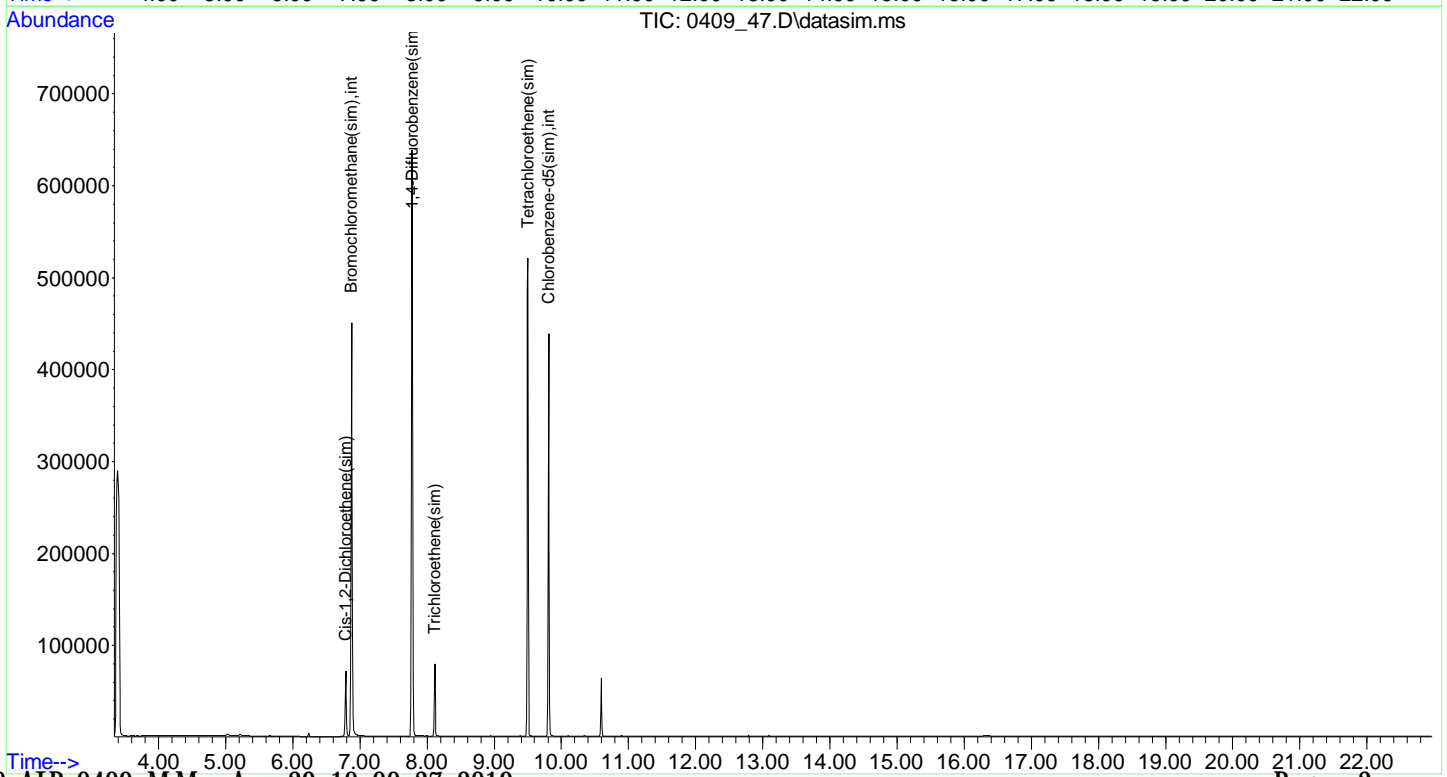
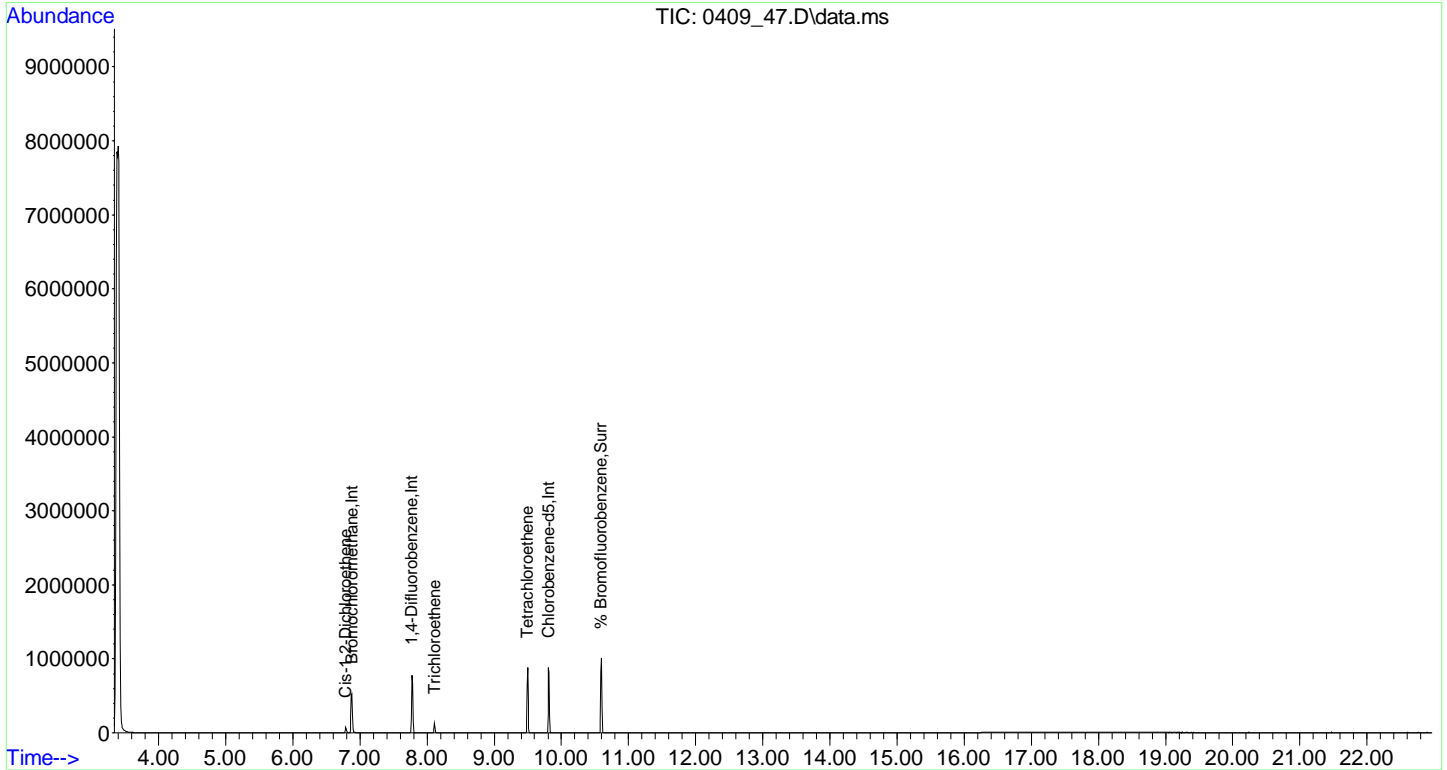
Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
Internal Standards						
1) Bromchloromethane	6.879	130	97780	10.000	ng	0.00
36) 1,4-Difluorobenzene	7.772	114	332148	10.000	ng	0.00
53) Chlorobenzene-d5	9.807	82	165153	10.000	ng	# 0.00
80) Bromchloromethane(sim)	6.874	130	137584	10.000	ng	# 0.00
94) 1,4-Difluorobenzene(sim)	7.775	114	382802	10.000	ng	0.00
104) Chlorobenzene-d5(sim)	9.810	82	167035	10.000	ng	# 0.00
System Monitoring Compounds						
62) % Bromfluorobenzene	10.596	95	214932	9.927	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	99.30%
Target Compounds						
26) Cis-1,2-Dichloroethene	6.786	61	35325	2.200	ppbv#	70
39) Trichloroethene	8.111	130	18972	1.521	ppbv#	83
52) Tetrachloroethene	9.498	166	118474	8.983	ppbv#	86
92) Cis-1,2-Dichloroethene...	6.789	61	41164	1.981	ppbv#	72
97) Trichloroethene(sim)	8.111	130	18972	1.376	ppbv#	89
103) Tetrachloroethene(sim)	9.498	166	118474	7.879	ppbv#	86

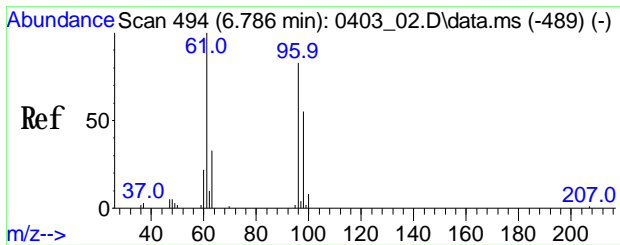
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2019\CHEM20\04APR\09\
Data File : 0409_47.D
Acq On : 10 Apr 2019 12:05 pm
Operator : CORTEX\ns
Client ID : SS-3 75X
Lab ID : CC90509 75X
ALS Vial : 1 Sample Multiplier: 1

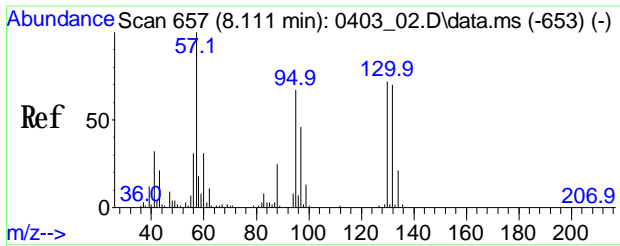
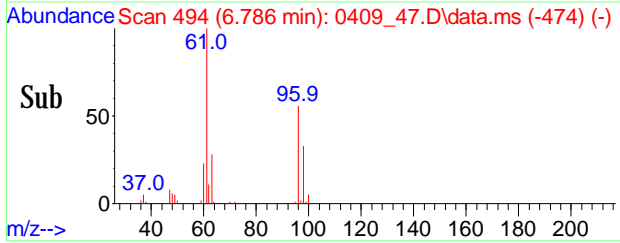
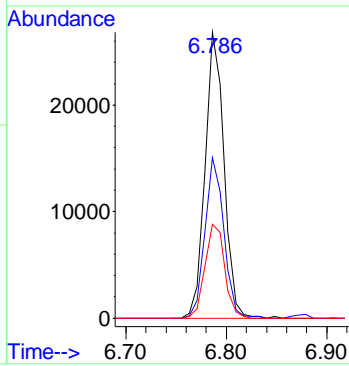
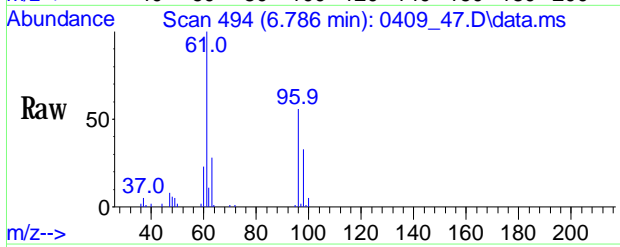
Quant Time: Apr 10 16:00:20 2019
Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_0409.M
Quant Title : VOA Standards for 5 point calibration
Last Update : Wed Apr 10 09:42:38 2019
Response via : Initial Calibration





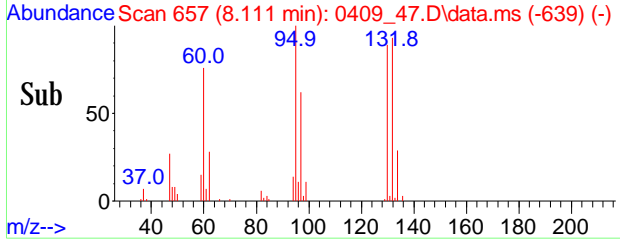
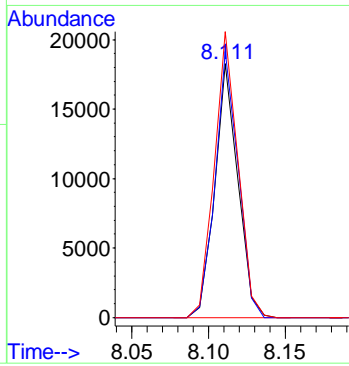
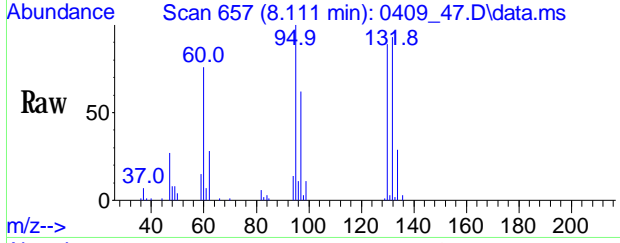
#26
 Cis-1,2-Dichloroethene
 Conc: 8S 2.200 ppby
 RT: 6.786 min Scan# 494
 Delta R.T. -0.008 min
 Lab File: 0409_47.D
 Acq: 10 Apr 2019 12:05 pm

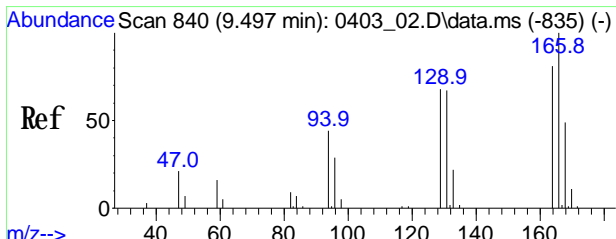
Tgt Ion	Ratio	Resp	Lower	Upper
61	100			
96	56.2	67.8		101.8#
98	34.2	43.8		65.6#



#39
 Trichloroethene
 Conc: 8S 1.521 ppby
 RT: 8.111 min Scan# 657
 Delta R.T. -0.000 min
 Lab File: 0409_47.D
 Acq: 10 Apr 2019 12:05 pm

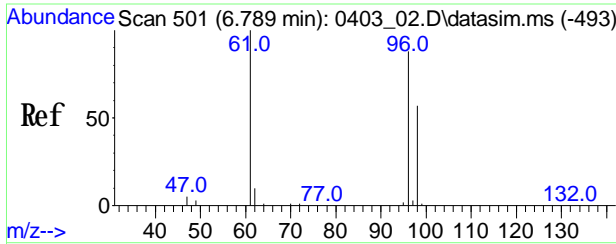
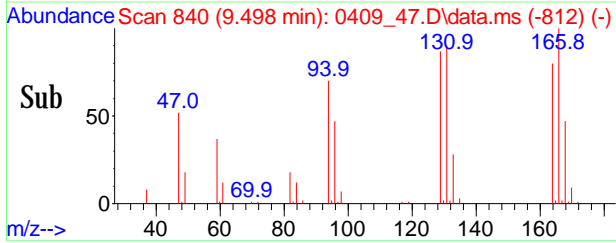
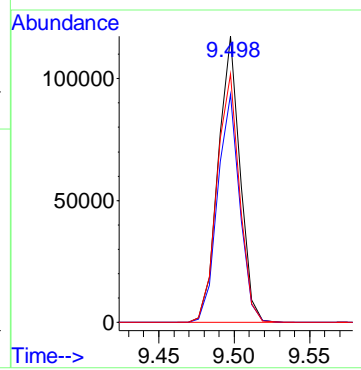
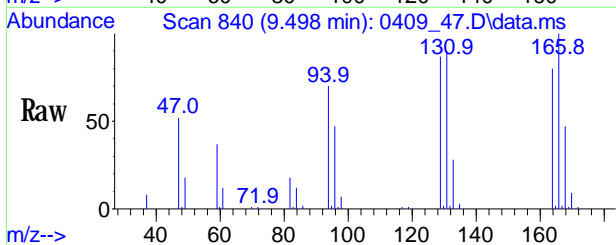
Tgt Ion	Ratio	Resp	Lower	Upper
130	100			
132	105.1	78.0		117.0
95	115.8	73.0		109.4#





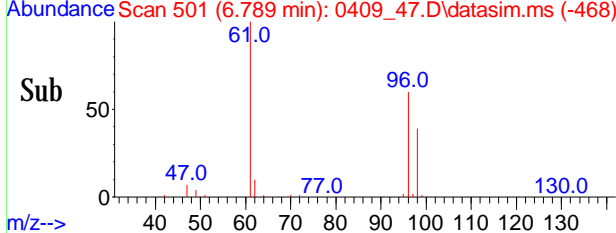
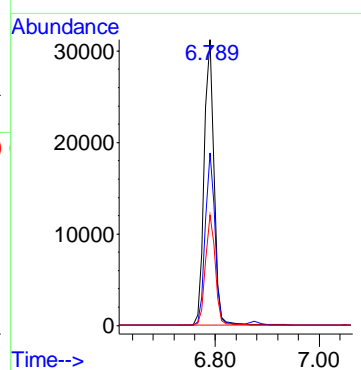
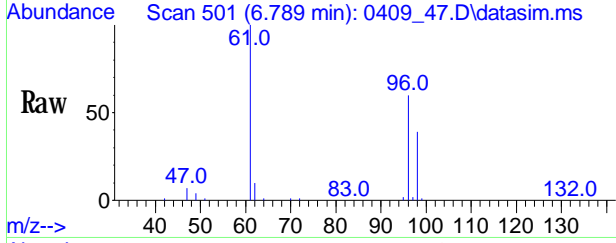
#52
 Tetrachloroethene
 Conc: 8S 8.983 ppbv
 RT: 9.498 min Scan# 840
 Delta R.T. 0.001 min
 Lab File: 0409_47.D
 Acq: 10 Apr 2019 12:05 pm

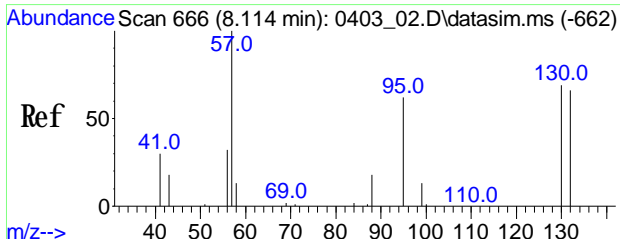
Tgt Ion	Ratio	Resp	Upper
166	100	118474	
164	80.3	62.2	93.2
129	89.2	54.9	82.3#



#92
 Cis-1,2-Dichloroethene(sim)
 Conc: 8S 1.981 ppbv
 RT: 6.789 min Scan# 501
 Delta R.T. 0.000 min
 Lab File: 0409_47.D
 Acq: 10 Apr 2019 12:05 pm

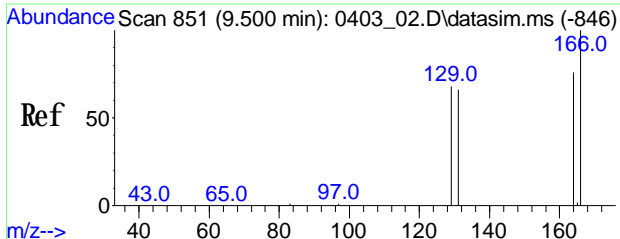
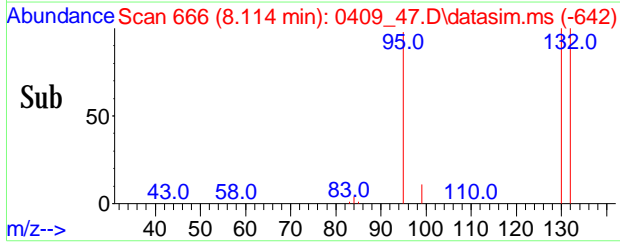
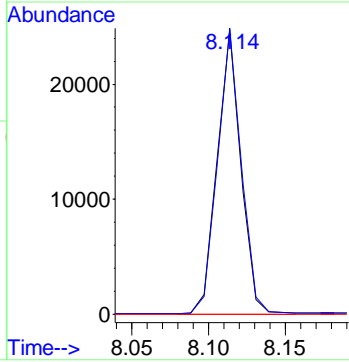
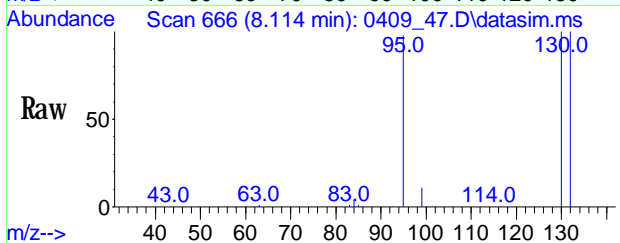
Tgt Ion	Ratio	Resp	Upper
61	100	41164	
96	59.4	69.7	104.5#
98	38.4	45.3	67.9#





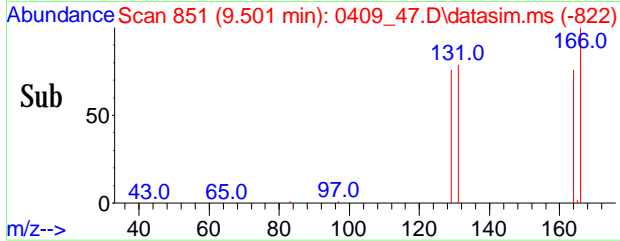
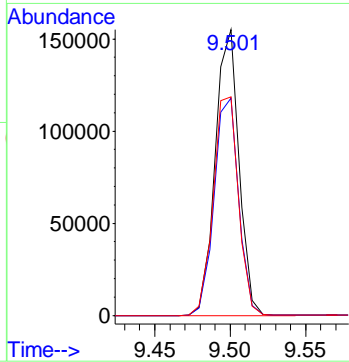
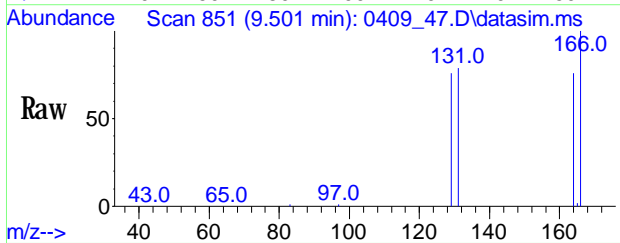
#97
 Trichloroethene(sim)
 Conc: 8S 1.376 ppbv
 RT: 8.111 min Scan# 666
 Delta R.T. -0.000 min
 Lab File: 0409_47.D
 Acq: 10 Apr 2019 12:05 pm

Tgt Ion	Ratio	Resp	Lower	Upper
130	100	18972		
132	105.1	78.0		117.0
97	71.9	47.2		70.8#



#103
 Tetrachloroethene(sim)
 Conc: 8S 7.879 ppbv
 RT: 9.498 min Scan# 851
 Delta R.T. 0.001 min
 Lab File: 0409_47.D
 Acq: 10 Apr 2019 12:05 pm

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	118474		
164	80.3	57.7		97.7
129	89.2	48.6		88.6#



1
AIR ANALYSIS DATA SHEET

CLIENT ID

SS-7

Client: WALDENE Lab: Phoenix Env. Labs

SDG No.: GCC90508 Lab Sample ID: CC90510

Canister: 11291 Lab File ID: 0409_39.D

Instrument: CHEM20 Column: RTX-1 60M Date Received: 04/08/19

Purge Volume 200 (cc) Date Analyzed: 04/10/19

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	0.473		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	2.12	S	0.531	0.531	r
67-64-1	Acetone	2.54	S	0.421	0.421	r
75-69-4	Trichlorofluoromethane	0.266		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	0.864	U	0.864	0.864	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	0.395		0.339	0.339	r
110-54-3	Hexane	0.284	U	0.284	0.284	r
67-66-3	Chloroform	0.302		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	0.288		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	2.75		0.266	0.266	r
591-78-6	2-Hexanone(MBK)	0.244	U	0.244	0.244	r
127-18-4	Tetrachloroethene	20.64		0.037	0.037	r
630-20-6	1,1,1,2-Tetrachloroethane	0.146	U	0.146	0.146	r
108-90-7	Chlorobenzene	0.217	U	0.217	0.217	r
100-41-4	Ethylbenzene	0.451		0.230	0.230	r
179601-23-1	m,p-Xylene	1.90		0.230	0.230	r
100-42-5	Styrene	0.441		0.235	0.235	r
95-47-6	o-Xylene	0.440		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	0.403		0.204	0.204	r
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.143	U	0.143	0.143	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

SS-7

Client: WALDENE Lab: Phoenix Env. Labs

SDG No.: GCC90508 Lab Sample ID: CC90510

Canister: 11291 Lab File ID: 0409_39.D

Instrument: CHEM20 Column: RTX-1 60M Date Received: 04/08/19

Purge Volume 200 (cc) Date Analyzed: 04/10/19

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
75-01-4	Vinyl Chloride(sim)	0.078	U	0.078	0.078	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)	0.032	U	0.032	0.032	r
75-35-4	1,1-Dichloroethene(sim)	0.051	U	0.051	0.051	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)	0.051	U	0.051	0.051	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)	0.037	U	0.037	0.037	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
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

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2019\CHEM20\04APR\09\
 Data File : 0409_39.D
 Acq On : 10 Apr 2019 06:28 am
 Operator : CORTEX\ms
 Client ID : SS-7
 Lab ID : CC90510
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 27 06:56:53 2019
 Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_0409.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Wed Apr 10 09:07:16 2019
 Response via : Initial Calibration

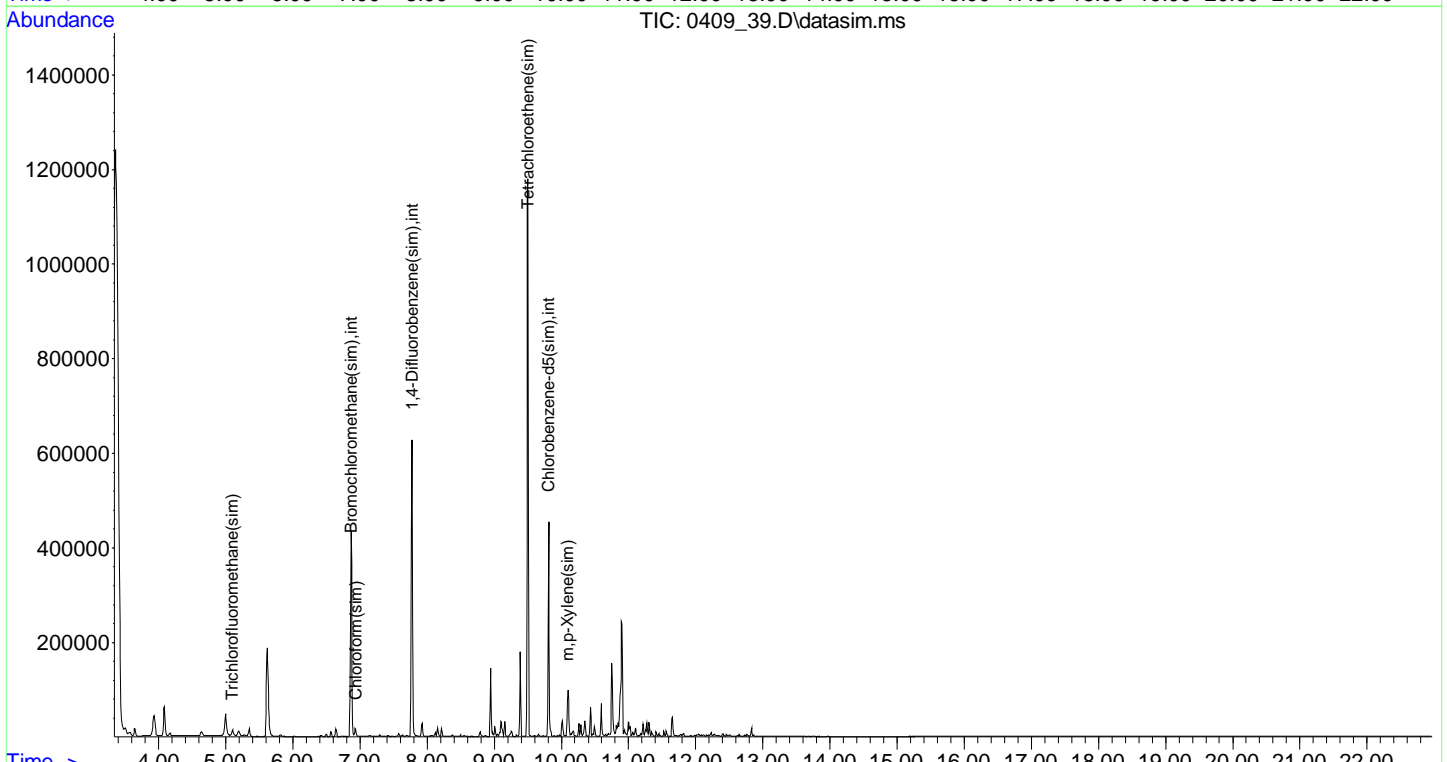
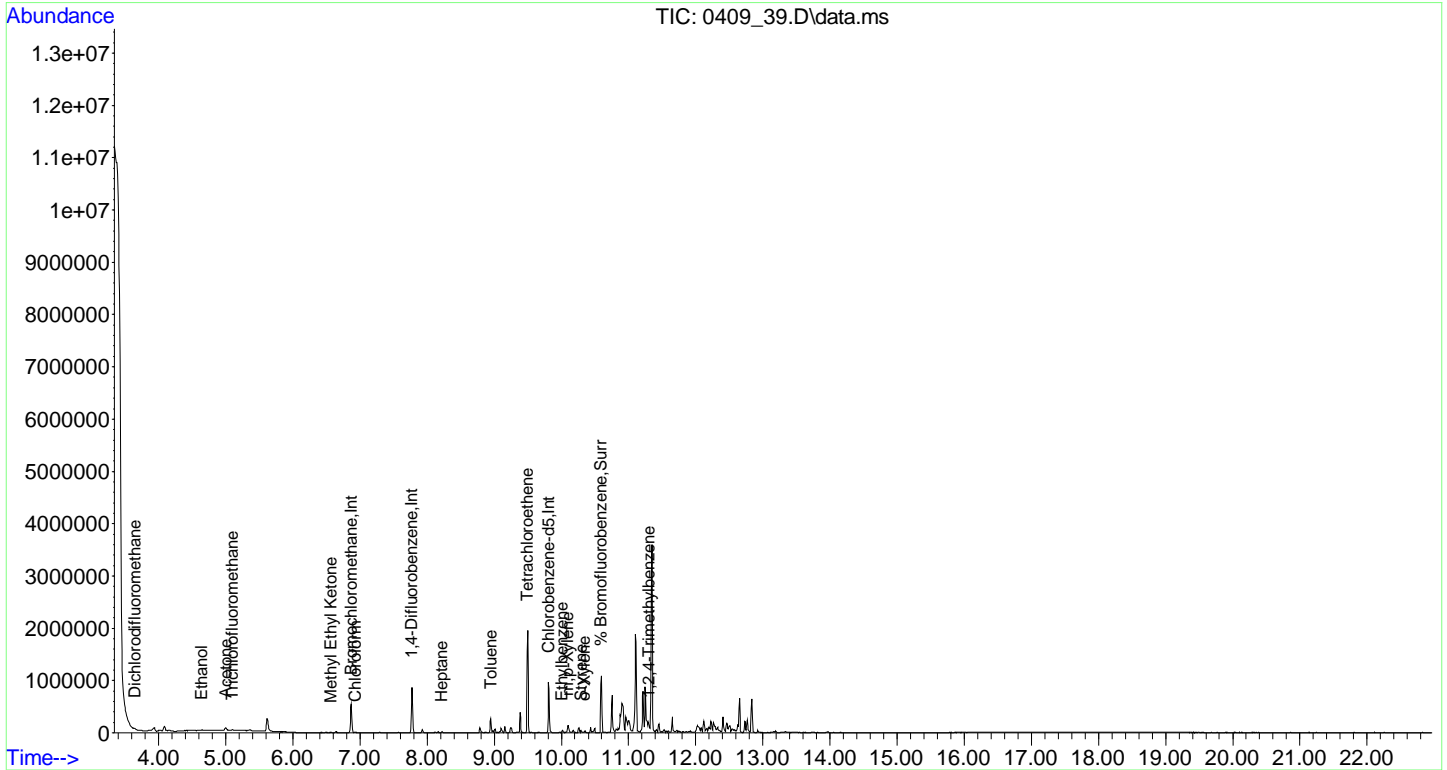
Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
Internal Standards						
1) Bromchloromethane	6.871	130	103792	10.000	ng	0.00
36) 1,4-Difluorobenzene	7.772	114	347939	10.000	ng	0.00
53) Chlorobenzene-d5	9.807	82	181935	10.000	ng	# 0.00
80) Bromchloromethane(sim)	6.874	130	144640	10.000	ng	# 0.00
94) 1,4-Difluorobenzene(sim)	7.775	114	403962	10.000	ng	0.00
104) Chlorobenzene-d5(sim)	9.810	82	181982	10.000	ng	# 0.00
System Monitoring Compounds						
62) % Bromfluorobenzene	10.596	95	241234	10.114	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	101.10%	
Target Compounds						
						Qvalue
3) Dichlorodifluoromethane	3.646	85	12587	0.473	ppbv#	96
11) Ethanol	4.644	45	9482	2.123	ppbv	96
12) Acetone	5.001	43	58999	2.542	ppbv	93
13) Trichlorofluoromethane	5.098	101	9245	0.266	ppbv	99
25) Methyl Ethyl Ketone	6.568	43	11529	0.395	ppbv#	73
28) Chloroform	6.933	83	7288	0.302	ppbv#	83
43) Heptane	8.221	43	5060	0.288	ppbv#	70
48) Toluene	8.948	91	78411	2.748	ppbv#	97
52) Tetrachloroethene	9.497	166	285264	20.647	ppbv#	87
56) Ethylbenzene	10.012	91	19447	0.451	ppbv	95
57) m p-Xylene	10.095	91	62552	1.902	ppbv	91
59) Styrene	10.293	104	10533	0.441	ppbv#	78
61) o-Xylene	10.346	91	15145	0.440	ppbv	95
68) 1,2,4-Trimethylbenzene	11.309	105	15492	0.403	ppbv#	79
84) Trichlorofluoromethane...	5.101	101	11649	0.241	ppbv	99
93) Chloroform(sim)	6.933	83	7288	0.266	ppbv#	83
103) Tetrachloroethene(sim)	9.500	166	400882m	25.265	ppbv	84
106) m p-Xylene(sim)	10.098	91	65235	1.872	ppbv#	92

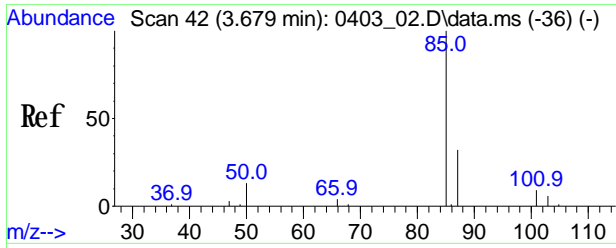
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2019\CHEM20\04APR\09\
Data File : 0409_39.D
Acq On : 10 Apr 2019 06:28 am
Operator : CORTEX\nms
Client ID : SS-7
Lab ID : CC90510
ALS Vial : 1 Sample Multiplier: 1

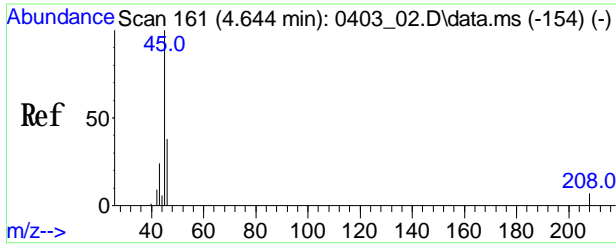
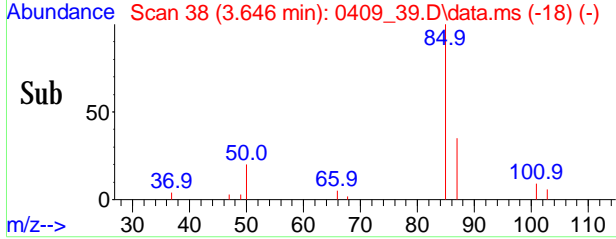
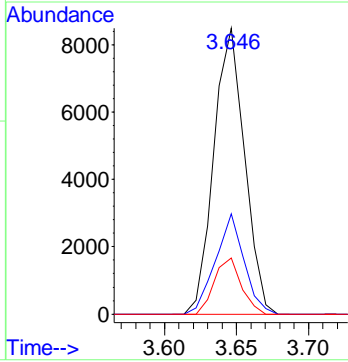
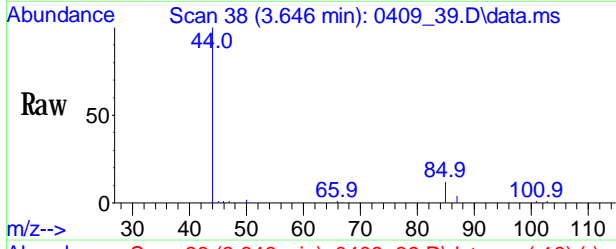
Quant Time: Apr 27 06:56:53 2019
Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_0409.M
Quant Title : VOA Standards for 5 point calibration
Last Update : Wed Apr 10 09:07:16 2019
Response via : Initial Calibration





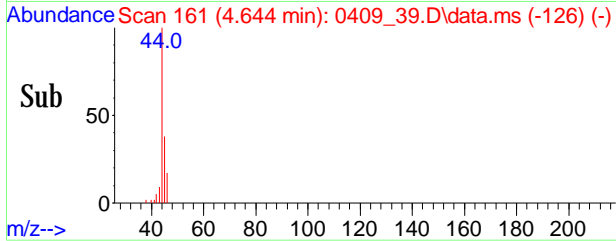
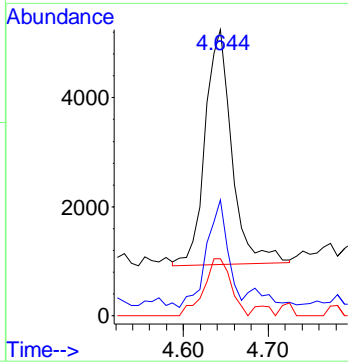
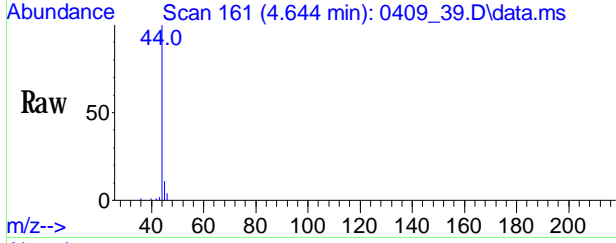
#3
 Dichlorodifluoromethane
 Conc: 8S 0.473 ppby
 RT: 3.646 min Scan# 38
 Delta R.T. -0.040 min
 Lab File: 0409_39.D
 Acq: 10 Apr 2019 06:28 am

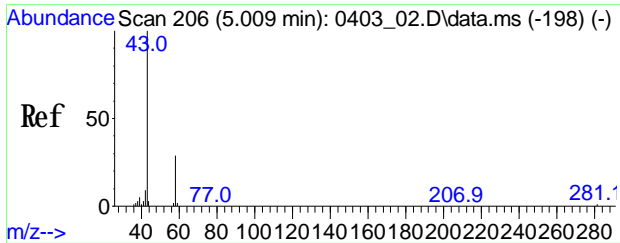
Tgt Ion	Ratio	Resp	Lower	Upper
85	100	12587		
87	32.6	25.6	38.4	
50	17.1	9.4	14.2#	



#11
 Ethanol
 Conc: 8S 2.123 ppby
 RT: 4.644 min Scan# 161
 Delta R.T. -0.016 min
 Lab File: 0409_39.D
 Acq: 10 Apr 2019 06:28 am

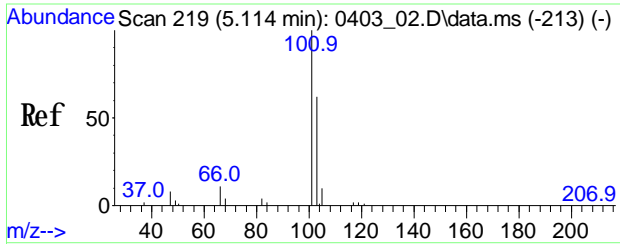
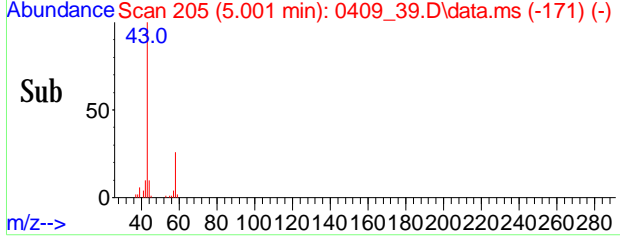
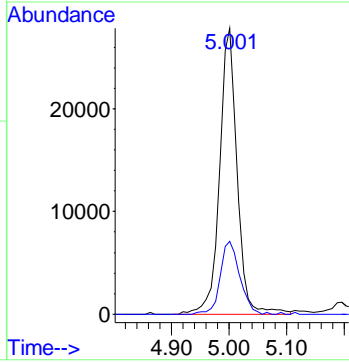
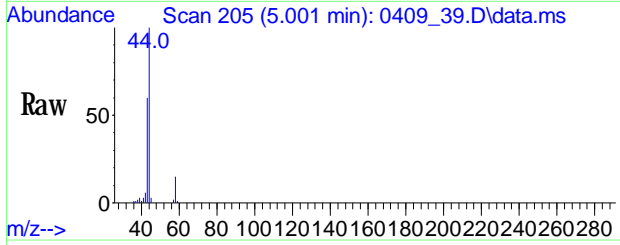
Tgt Ion	Ratio	Resp	Lower	Upper
45	100	9482		
46	36.4	29.9	44.9	
43	24.2	22.7	34.1	





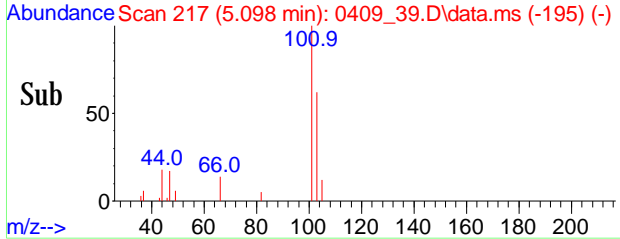
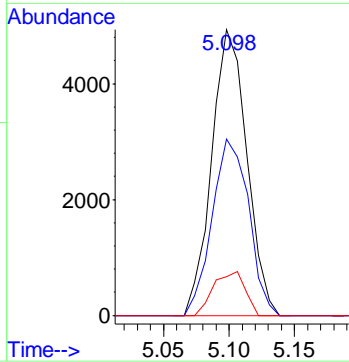
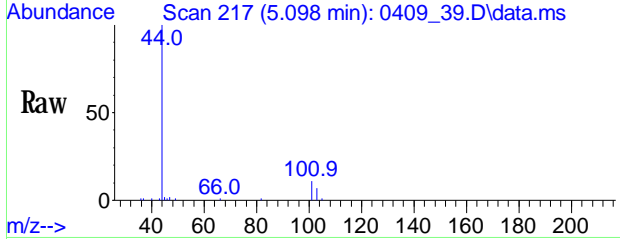
#12
 Acetone
 Conc: 8S 2.542 ppbv
 RT: 5.001 min Scan# 205
 Delta R.T. -0.024 min
 Lab File: 0409_39.D
 Acq: 10 Apr 2019 06:28 am

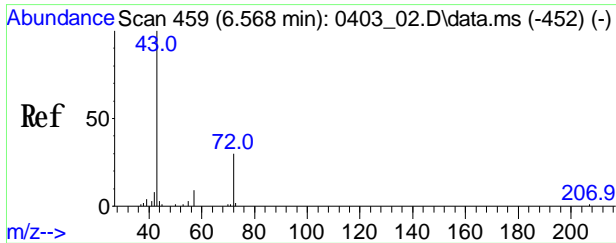
Tgt Ion	Ratio	Resp	Lower	Upper
43	100	58999		
58	28.4	25.9		38.9



#13
 Trichlorofluoromethane
 Conc: 8S 0.266 ppbv
 RT: 5.098 min Scan# 217
 Delta R.T. -0.024 min
 Lab File: 0409_39.D
 Acq: 10 Apr 2019 06:28 am

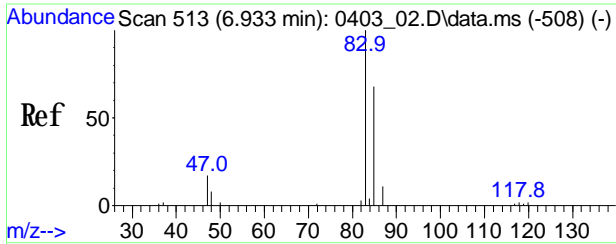
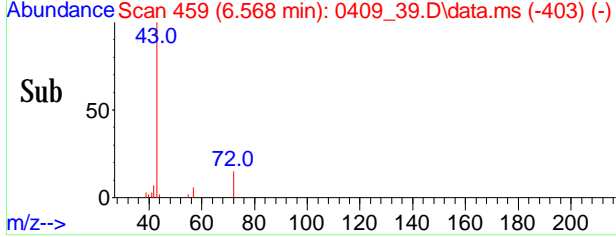
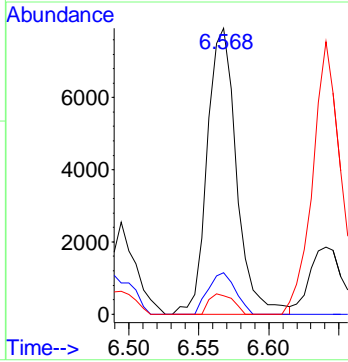
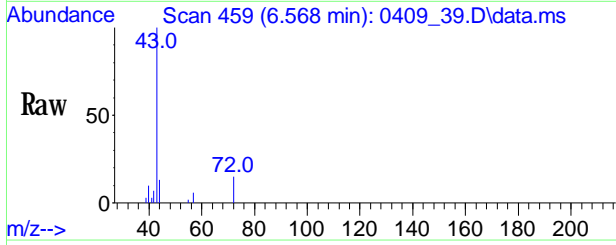
Tgt Ion	Ratio	Resp	Lower	Upper
101	100	9245		
103	64.1	51.6		77.4
66	13.8	9.4		14.0





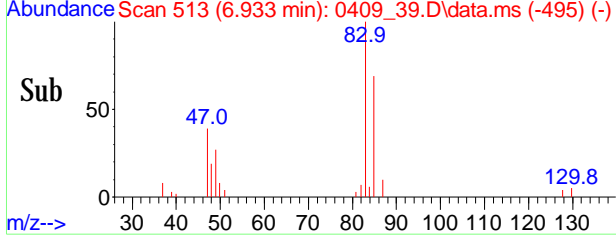
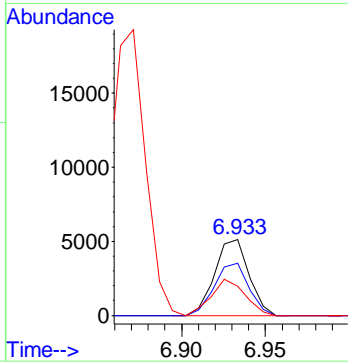
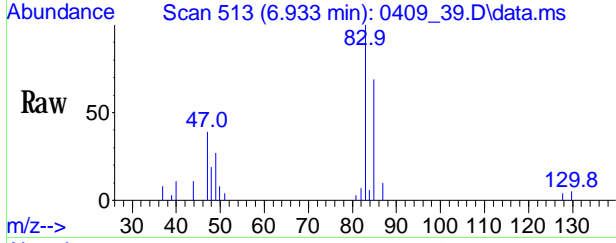
#25
 Methyl Ethyl Ketone
 Conc: 8S 0.395 ppbv
 RT: 6.568 min Scan# 459
 Delta R.T. -0.005 min
 Lab File: 0409_39.D
 Acq: 10 Apr 2019 06:28 am

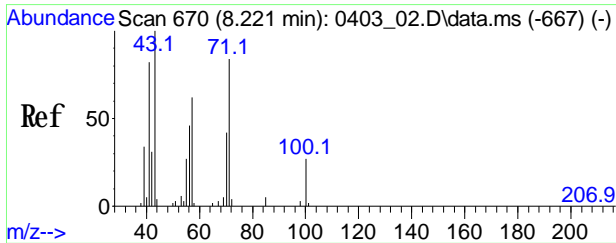
Tgt Ion	Ratio	Resp	Lower	Upper
43	100	11529		
72	13.4	24.6		37.0#
57	5.8	7.4		11.2#



#28
 Chloroform
 Conc: 8S 0.302 ppbv
 RT: 6.933 min Scan# 513
 Delta R.T. -0.008 min
 Lab File: 0409_39.D
 Acq: 10 Apr 2019 06:28 am

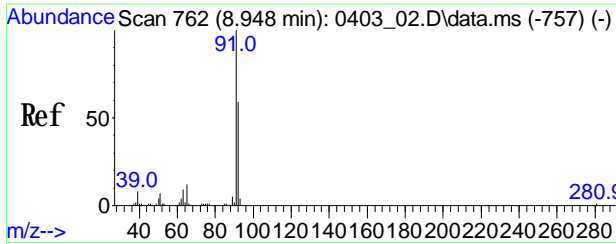
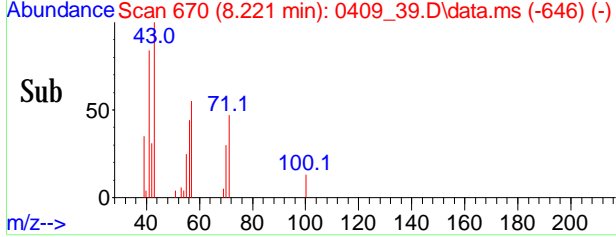
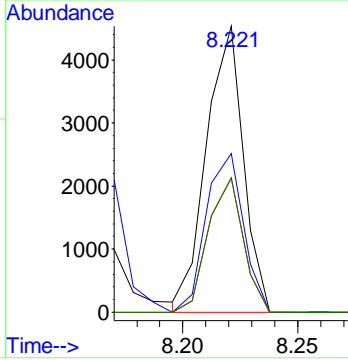
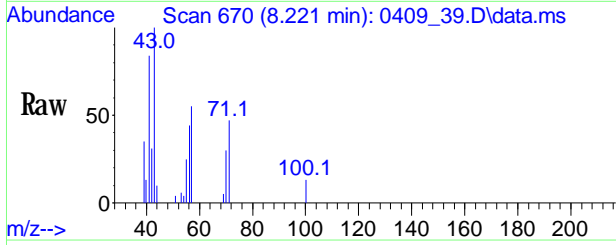
Tgt Ion	Ratio	Resp	Lower	Upper
83	100	7288		
85	68.8	45.9		85.9
47	47.5	0.8		40.8#





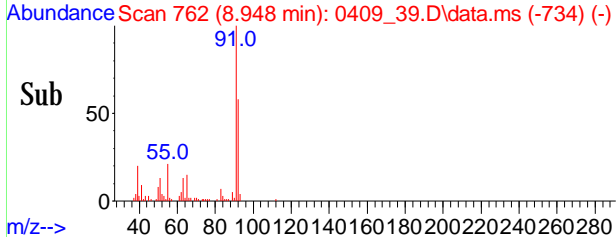
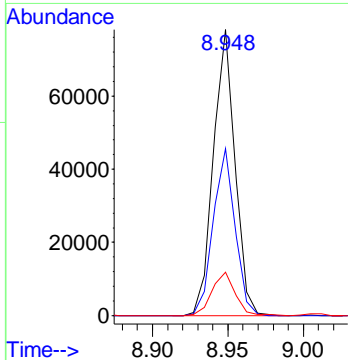
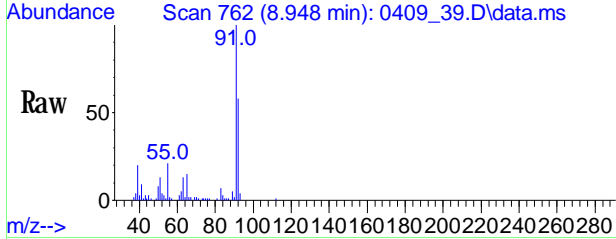
#43
 Heptane
 Conc: 8S 0.288 ppbv
 RT: 8.221 min Scan# 670
 Delta R.T. 0.000 min
 Lab File: 0409_39.D
 Acq: 10 Apr 2019 06:28 am

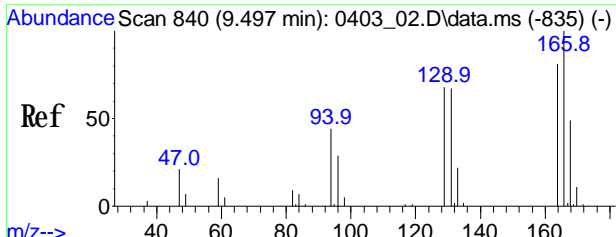
Tgt Ion	Ratio	Resp	Lower	Upper
43	100	5060		
57	56.1	49.7	74.5	
71	44.5	62.2	93.2#	
71	44.5	62.2	93.2#	



#48
 Toluene
 Conc: 8S 2.748 ppbv
 RT: 8.948 min Scan# 762
 Delta R.T. 0.000 min
 Lab File: 0409_39.D
 Acq: 10 Apr 2019 06:28 am

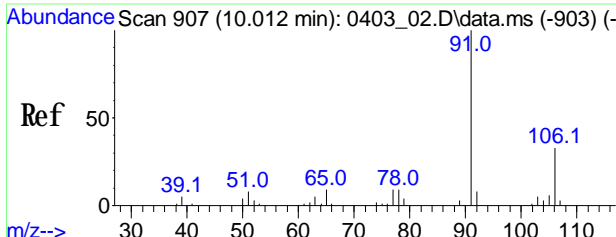
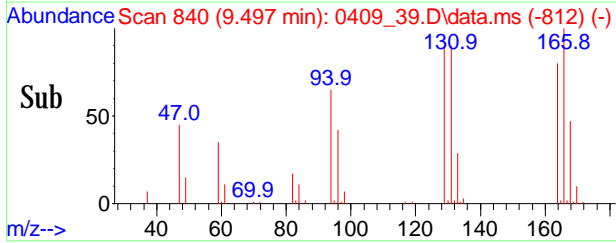
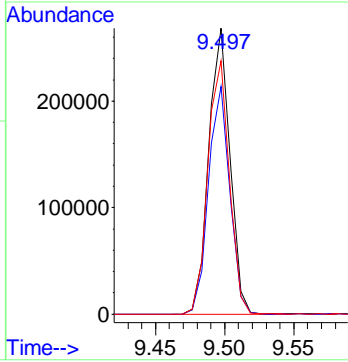
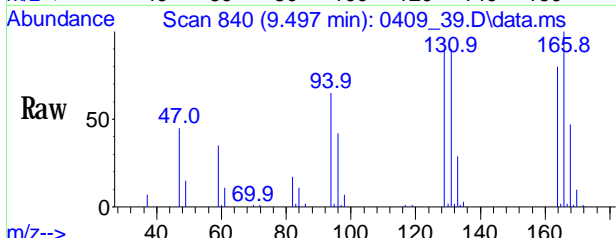
Tgt Ion	Ratio	Resp	Lower	Upper
91	100	78411		
92	58.6	47.7	71.5	
65	16.2	9.3	13.9#	





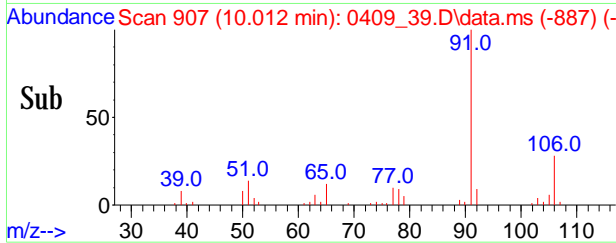
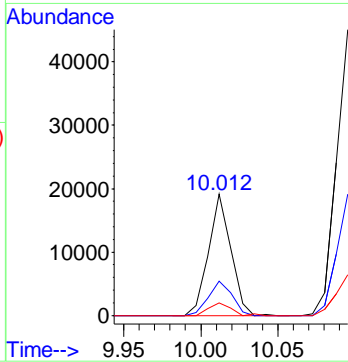
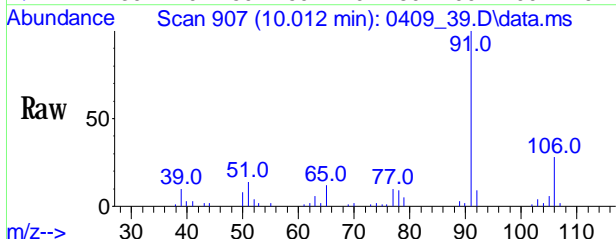
#52
Tetrachloroethene
 Conc: 8S 20.647 ppbv
 RT: 9.497 min Scan# 840
 Delta R.T. 0.000 min
 Lab File: 0409_39.D
 Acq: 10 Apr 2019 06:28 am

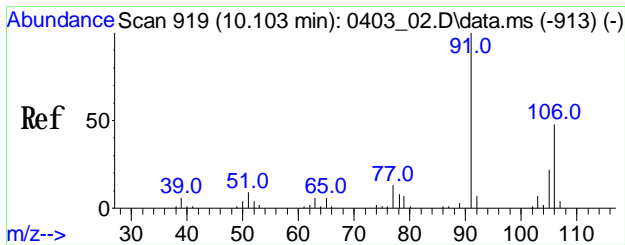
Tgt Ion	Ratio	Resp	Lower	Upper
166	100	285264		
164	79.7	62.2	93.2	
129	89.7	54.9	82.3#	



#56
Ethylbenzene
 Conc: 8S 0.451 ppbv
 RT: 10.012 min Scan# 907
 Delta R.T. 0.000 min
 Lab File: 0409_39.D
 Acq: 10 Apr 2019 06:28 am

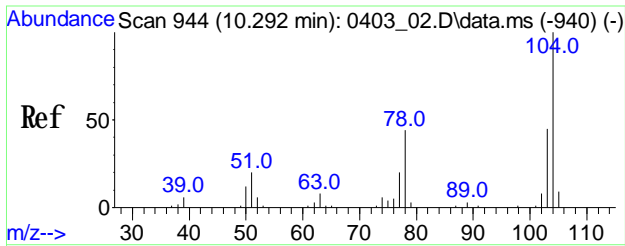
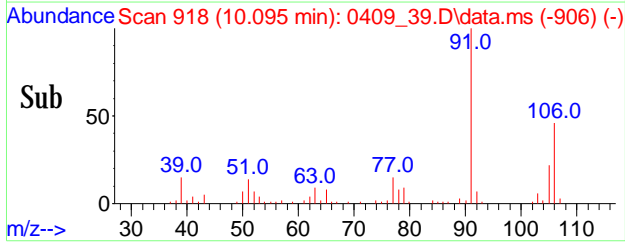
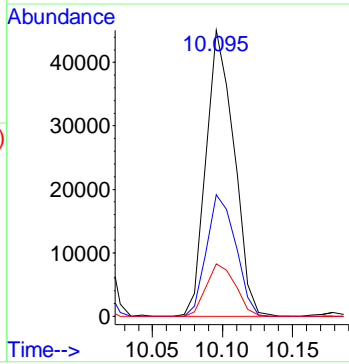
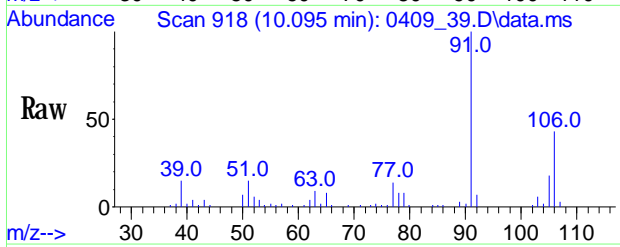
Tgt Ion	Ratio	Resp	Lower	Upper
91	100	19447		
106	29.7	12.6	52.6	
77	10.5	0.0	29.1	





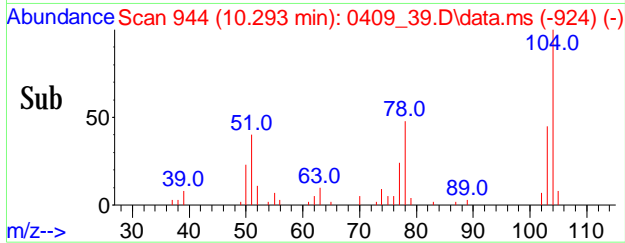
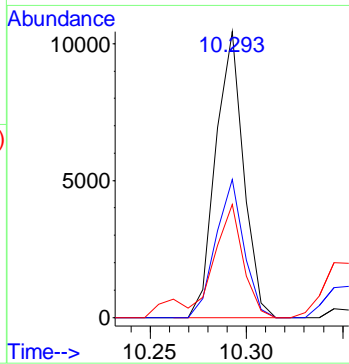
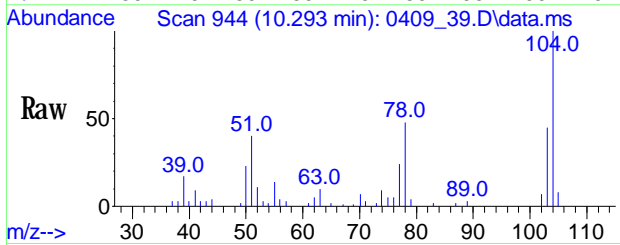
#57
 m p-Xylene
 Conc: 8S 1.902 ppbv
 RT: 10.095 min Scan# 918
 Delta R.T. -0.007 min
 Lab File: 0409_39.D
 Acq: 10 Apr 2019 06:28 am

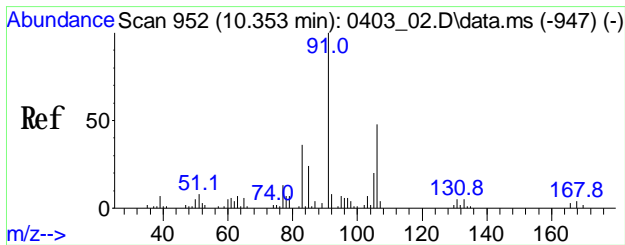
Tgt Ion	Ratio	Resp	Lower	Upper
91	100	62552		
106	44.3	40.9		61.3
105	19.1	17.8		26.8



#59
 Styrene
 Conc: 8S 0.441 ppbv
 RT: 10.293 min Scan# 944
 Delta R.T. 0.001 min
 Lab File: 0409_39.D
 Acq: 10 Apr 2019 06:28 am

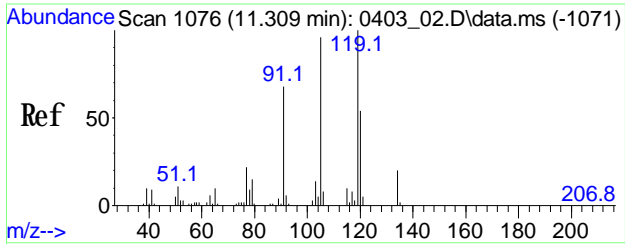
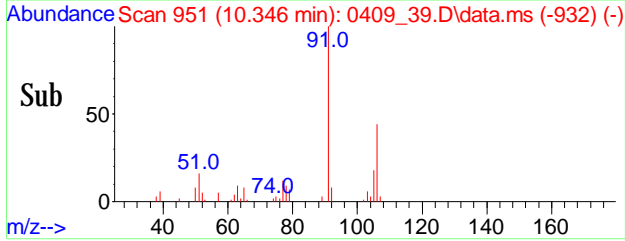
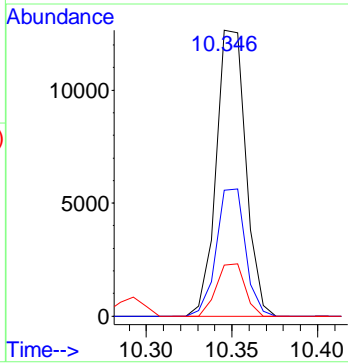
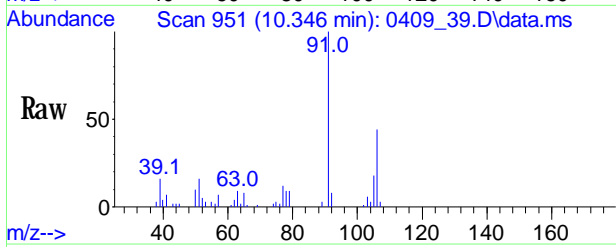
Tgt Ion	Ratio	Resp	Lower	Upper
104	100	10533		
78	48.8	35.9		53.9
51	46.5	15.8		23.8#





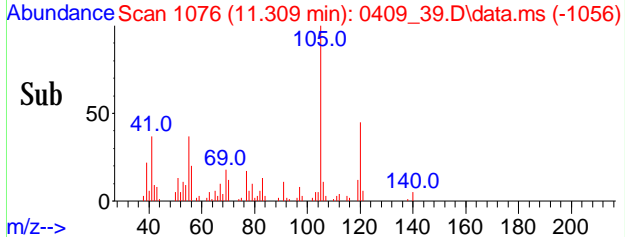
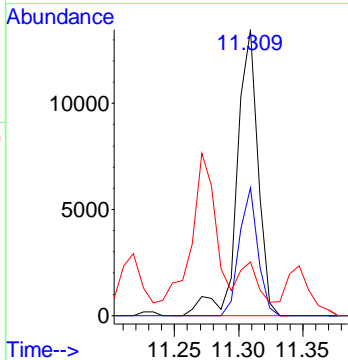
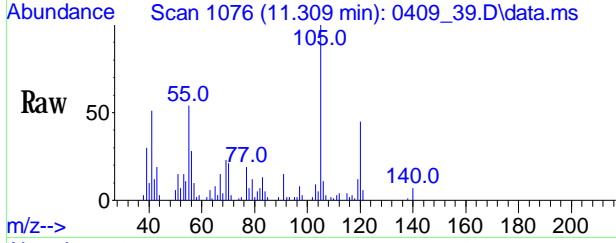
#61
 o-Xylene
 Conc: 8S 0.440 ppbv
 RT: 10.346 min Scan# 951
 Delta R.T. -0.007 min
 Lab File: 0409_39.D
 Acq: 10 Apr 2019 06:28 am

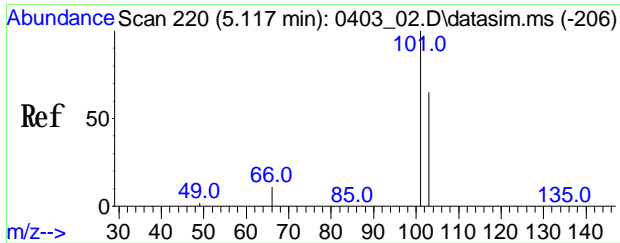
Tgt Ion	Ratio	Resp	Lower	Upper
91	100	15145		
106	43.8	38.3	57.5	
105	17.6	15.2	22.8	



#68
 1,2,4-Trimethylbenzene
 Conc: 8S 0.403 ppbv
 RT: 11.309 min Scan# 1076
 Delta R.T. 0.000 min
 Lab File: 0409_39.D
 Acq: 10 Apr 2019 06:28 am

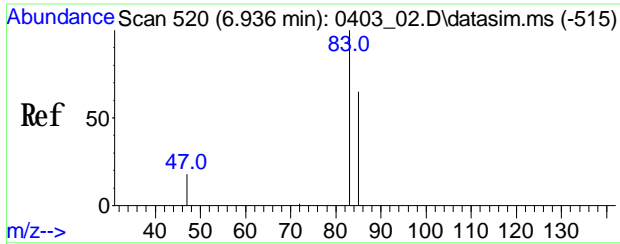
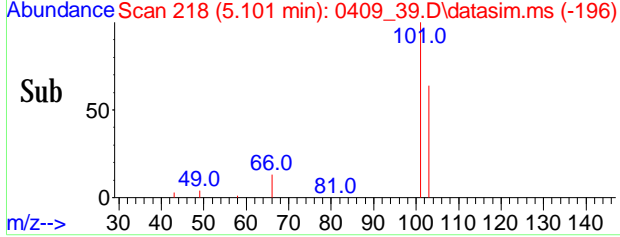
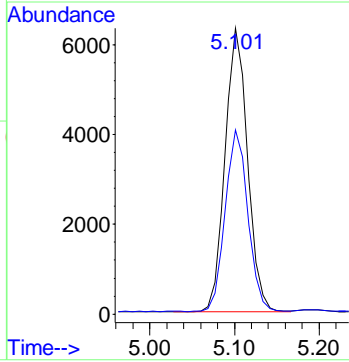
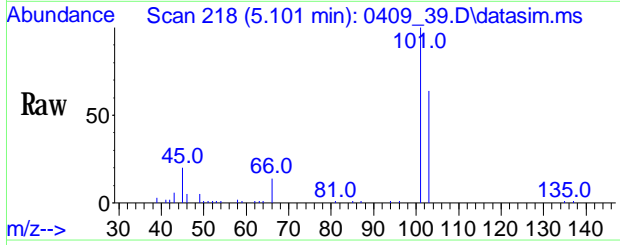
Tgt Ion	Ratio	Resp	Lower	Upper
105	100	15492		
120	39.4	44.5	66.7#	
77	14.8	19.7	29.5#	





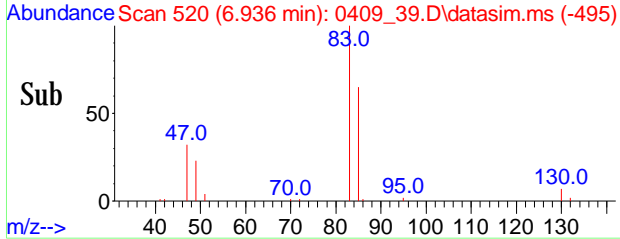
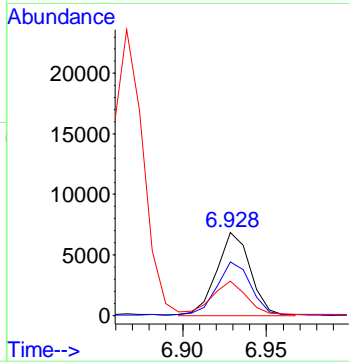
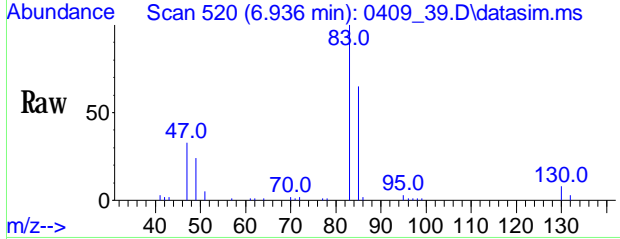
#84
 Trichlorofluoromethane(sim)
 Conc: 8S 0.241 ppbv
 RT: 5.101 min Scan# 218
 Delta R.T. -0.024 min
 Lab File: 0409_39.D
 Acq: 10 Apr 2019 06:28 am

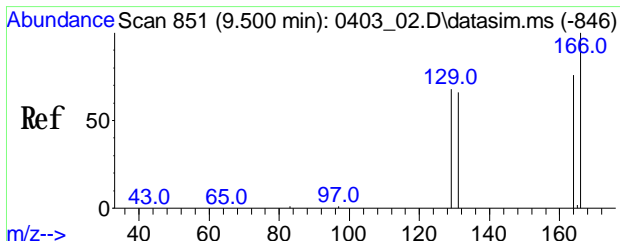
Tgt Ion: 101 Resp: 11649
 Ion Ratio Lower Upper
 101 100
 103 64.4 51.9 77.9



#93
 Chloroform(sim)
 Conc: 8S 0.266 ppbv
 RT: 6.933 min Scan# 520
 Delta R.T. -0.008 min
 Lab File: 0409_39.D
 Acq: 10 Apr 2019 06:28 am

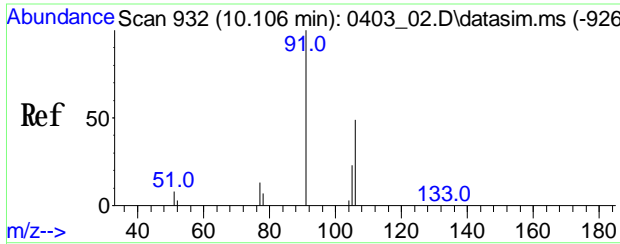
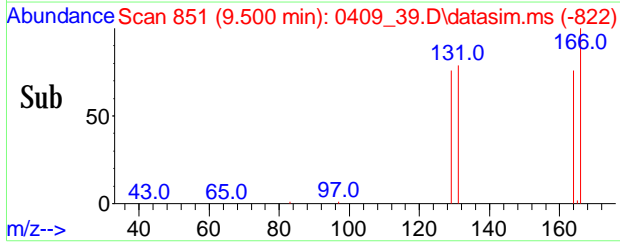
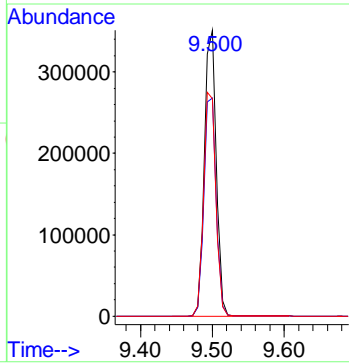
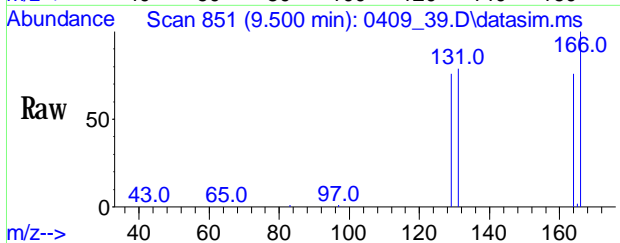
Tgt Ion: 83 Resp: 7288
 Ion Ratio Lower Upper
 83 100
 85 68.8 52.7 79.1
 47 47.5 16.6 25.0#





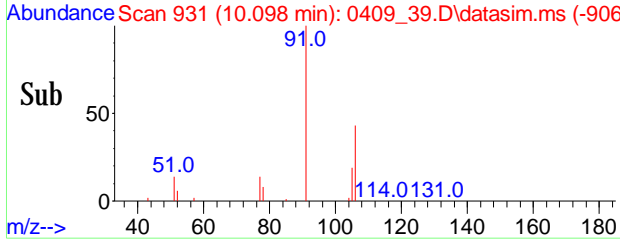
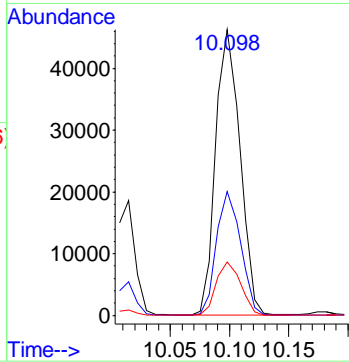
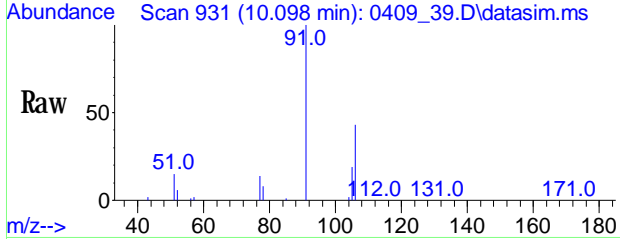
#103
 Tetrachloroethene (sim)
 Conc: 8S 25.265 ppbv
 RT: 9.500 min Scan# 851
 Delta R.T. 0.003 min
 Lab File: 0409_39.D
 Acq: 10 Apr 2019 06:28 am

Tgt Ion	Ratio	Resp	Upper
166	100	400882	
164	0.0	57.7	97.7#
129	0.0	48.6	88.6#



#106
 m,p-Xylene (sim)
 Conc: 8S 1.872 ppbv
 RT: 10.098 min Scan# 931
 Delta R.T. -0.007 min
 Lab File: 0409_39.D
 Acq: 10 Apr 2019 06:28 am

Tgt Ion	Ratio	Resp	Upper
91	100	65235	
106	43.2	44.3	54.1#
105	18.8	17.7	26.5



1
AIR ANALYSIS DATA SHEET

CLIENT ID

SS-4 5X

Client:	<u>WALDENE</u>	Lab:	<u>Phoenix Env. Labs</u>
SDG No.:	<u>GCC90508</u>	Lab Sample ID:	<u>CC90511 5X</u>
Canister:	<u>230</u>	Lab File ID:	<u>0409_33.D</u>
Instrument:	<u>CHEM20</u>	Column:	<u>RTX-1 60M</u>
Purge Volume	<u>200</u> (cc)	Date Received:	<u>04/08/19</u>
Matrix:	<u>AIR</u>	Date Analyzed:	<u>04/10/19</u>
		Dilution Factor:	<u>5</u>

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	2.91	U	2.91	2.91	r
75-71-8	Dichlorodifluoromethane	1.01	U	1.01	1.01	r
74-87-3	Chloromethane	2.42	U	2.42	2.42	r
106-99-0	1,3-Butadiene	2.26	U	2.26	2.26	r
75-00-3	Chloroethane	1.90	U	1.90	1.90	r
64-17-5	Ethanol	2.66	U	2.66	2.66	r
67-64-1	Acetone	2.39	S	2.11	2.11	r
67-63-0	Isopropylalcohol	2.04	U	2.04	2.04	r
107-13-1	Acrylonitrile	2.31	U	2.31	2.31	r
75-09-2	Methylene Chloride	4.32	U	4.32	4.32	r
75-15-0	Carbon Disulfide	1.61	U	1.61	1.61	r
156-60-5	Trans-1,2-Dichloroethene	20.2		1.26	1.26	r
1634-04-4	Methyl tert-butyl ether(MTBE)	1.39	U	1.39	1.39	r
78-93-3	Methyl Ethyl Ketone	1.70	U	1.70	1.70	r
156-59-2	Cis-1,2-Dichloroethene	539	E	0.252	0.252	
110-54-3	Hexane	1.42	U	1.42	1.42	r
67-66-3	Chloroform	2.11		1.02	1.02	r
141-78-6	Ethyl acetate	1.39	U	1.39	1.39	r
109-99-9	Tetrahydrofuran	1.70	U	1.70	1.70	r
71-43-2	Benzene	1.57	U	1.57	1.57	r
110-82-7	Cyclohexane	1.45	U	1.45	1.45	r
79-01-6	Trichloroethene	302	E	0.186	0.186	
142-82-5	Heptane	1.22	U	1.22	1.22	r
108-10-1	4-Methyl-2-pentanone(MIBK)	1.22	U	1.22	1.22	r
10061-02-6	trans-1,3-Dichloropropene	1.10	U	1.10	1.10	r
108-88-3	Toluene	2.76		1.33	1.33	r
591-78-6	2-Hexanone(MBK)	1.22	U	1.22	1.22	r
127-18-4	Tetrachloroethene	1800	E	0.184	0.184	
630-20-6	1,1,1,2-Tetrachloroethane	0.729	U	0.729	0.729	r
108-90-7	Chlorobenzene	1.09	U	1.09	1.09	r
100-41-4	Ethylbenzene	1.15	U	1.15	1.15	r
100-42-5	Styrene	1.17	U	1.17	1.17	r
95-47-6	o-Xylene	1.15	U	1.15	1.15	r
98-82-8	Isopropylbenzene	1.02	U	1.02	1.02	r
622-96-8	4-Ethyltoluene	1.02	U	1.02	1.02	r
108-67-8	1,3,5-Trimethylbenzene	1.02	U	1.02	1.02	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

SS-4 5X

Client:	<u>WALDENE</u>	Lab:	<u>Phoenix Env. Labs</u>
SDG No.:	<u>GCC90508</u>	Lab Sample ID:	<u>CC90511 5X</u>
Canister:	<u>230</u>	Lab File ID:	<u>0409_33.D</u>
Instrument:	<u>CHEM20</u>	Column:	<u>RTX-1 60M</u>
Purge Volume	<u>200</u> (cc)	Date Received:	<u>04/08/19</u>
Matrix:	<u>AIR</u>	Date Analyzed:	<u>04/10/19</u>
		Dilution Factor:	<u>5</u>

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
95-63-6	1,2,4-Trimethylbenzene	1.02	U	1.02	1.02	r
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.716	U	0.716	0.716	r
75-01-4	Vinyl Chloride(sim)	0.490		0.391	0.391	r
74-83-9	Bromomethane(sim)	1.29	U	1.29	1.29	r
75-69-4	Trichlorofluoromethane(sim)	0.891	U	0.891	0.891	r
107-06-2	1,2-Dichloroethane(sim)	1.24	U	1.24	1.24	r
71-55-6	1,1,1-Trichloroethane(sim)	0.917	U	0.917	0.917	r
56-23-5	Carbon Tetrachloride(sim)	0.159	U	0.159	0.159	r
75-35-4	1,1-Dichloroethene(sim)	0.252	U	0.252	0.252	r
76-13-1	Trichlorotrifluoroethane(sim)	0.653	U	0.653	0.653	r
75-34-3	1,1-Dichloroethane(sim)	1.24	U	1.24	1.24	r
78-87-5	1,2-dichloropropane(sim)	1.08	U	1.08	1.08	r
75-27-4	Bromodichloromethane(sim)	0.747	U	0.747	0.747	r
123-91-1	1,4-Dioxane(sim)	1.39	U	1.39	1.39	r
10061-01-5	cis-1,3-Dichloropropene(sim)	1.10	U	1.10	1.10	r
79-00-5	1,1,2-Trichloroethane(sim)	0.917	U	0.917	0.917	r
124-48-1	Dibromochloromethane(sim)	0.587	U	0.587	0.587	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.651	U	0.651	0.651	r
75-25-2	Bromoform(sim)	0.484	U	0.484	0.484	r
179601-23-1	m,p-Xylene(sim)	1.75		1.15	1.15	r
79-34-5	1,1,1,2-Tetrachloroethane(sim)	0.729	U	0.729	0.729	r
100-44-7	Benzyl chloride(sim)	0.966	U	0.966	0.966	r
541-73-1	1,3-Dichlorobenzene(sim)	0.832	U	0.832	0.832	r
106-46-7	1,4-Dichlorobenzene(sim)	0.832	U	0.832	0.832	r
135-98-8	sec-Butylbenzene(sim)	0.911	U	0.911	0.911	r
99-87-6	4-Isopropyltoluene(sim)	0.911	U	0.911	0.911	r
95-50-1	1,2-Dichlorobenzene(sim)	0.832	U	0.832	0.832	r
104-51-8	n-Butylbenzene(sim)	0.911	U	0.911	0.911	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.674	U	0.674	0.674	r
87-68-3	Hexachlorobutadiene(sim)	0.469	U	0.469	0.469	r

FORM I AIR

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

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2019\CHEM20\04APR\09\
 Data File : 0409_33.D
 Acq On : 10 Apr 2019 02:40 am
 Operator : CORTEX\ms
 Client ID : SS-4 5X
 Lab ID : CC90511 5X
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 10 09:40:05 2019
 Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_0409.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Wed Apr 10 09:07:16 2019
 Response via : Initial Calibration

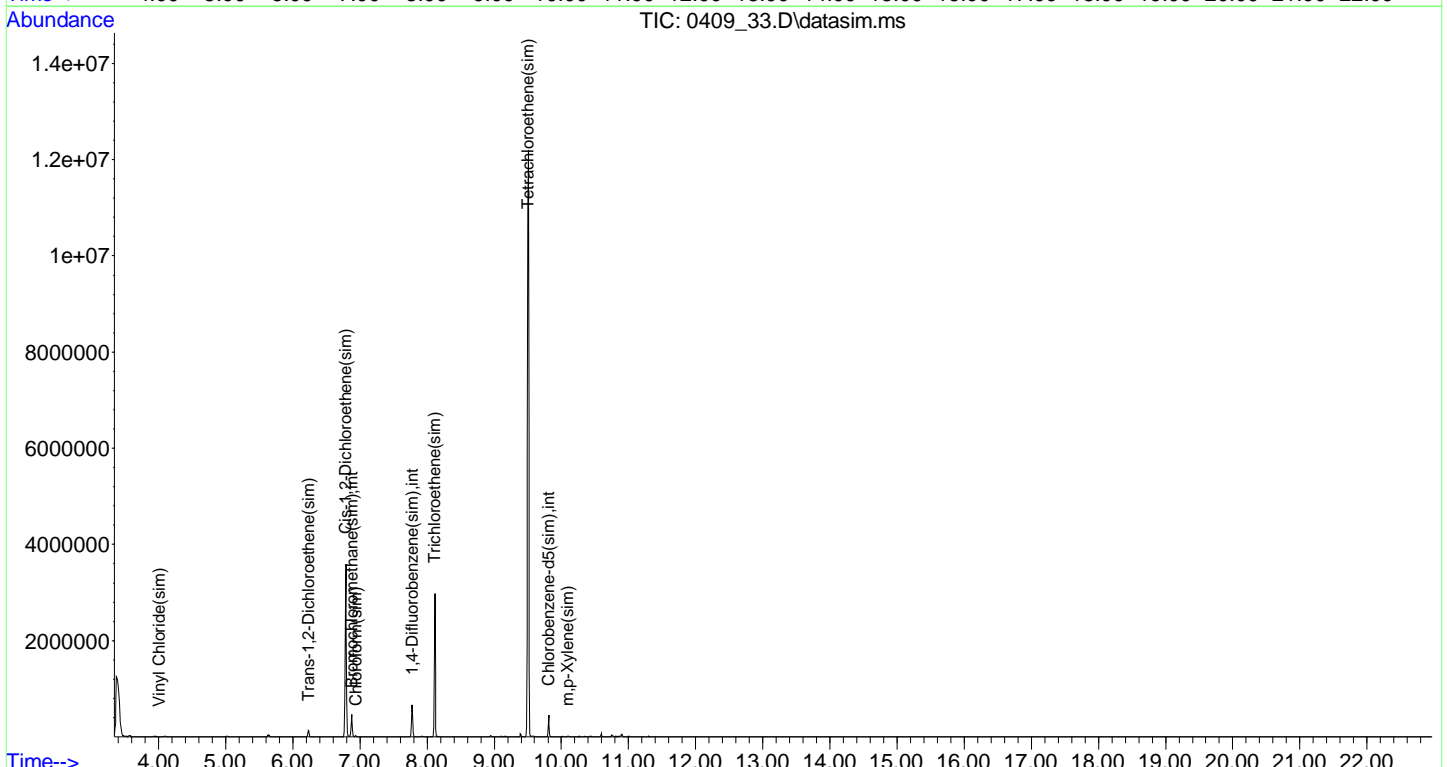
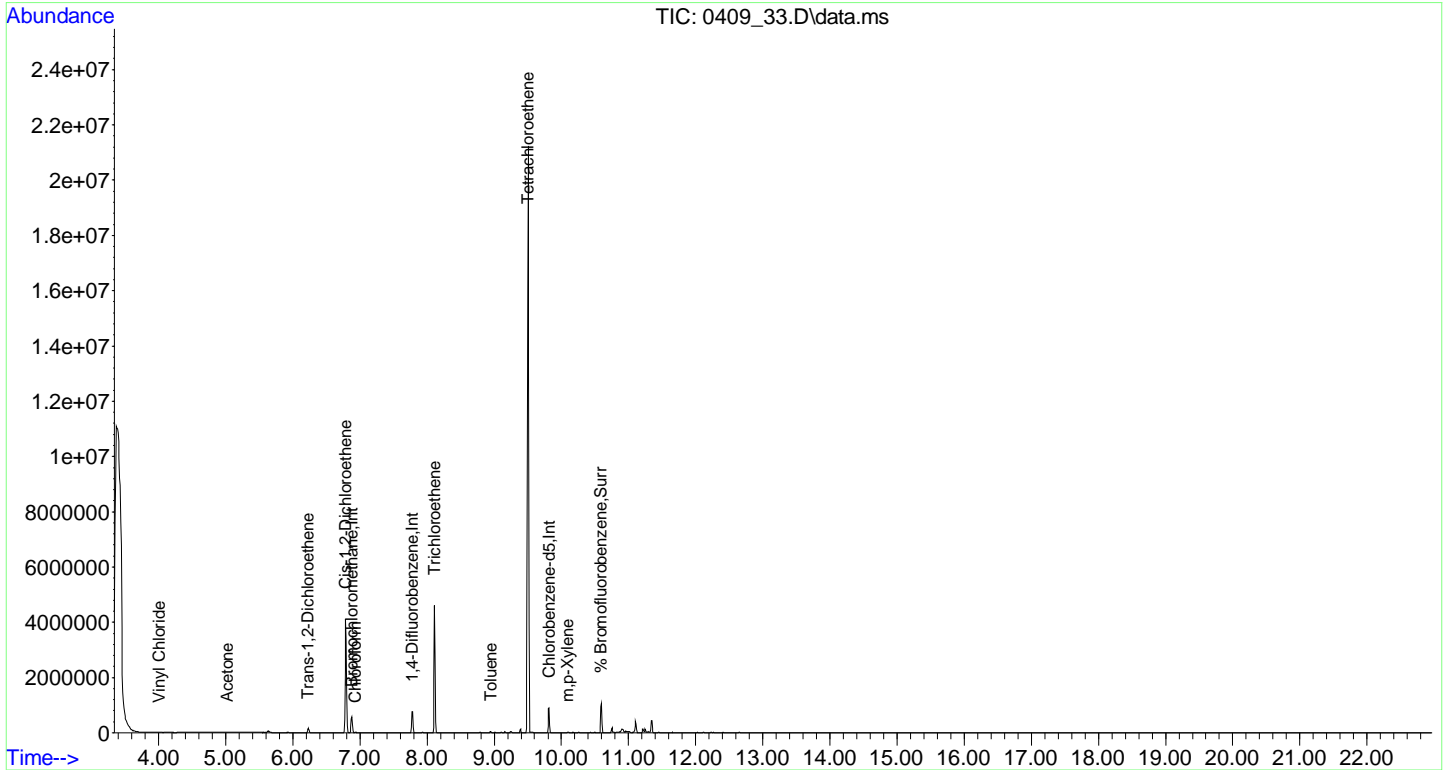
Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
Internal Standards						
1) Bromchloromethane	6.879	130	108129	10.000	ng	0.00
36) 1,4-Difluorobenzene	7.781	114	363783	10.000	ng	0.00
53) Chlorobenzene-d5	9.815	82	176076	10.000	ng	# 0.00
80) Bromchloromethane(sim)	6.882	130	148494	10.000	ng	# 0.00
94) 1,4-Difluorobenzene(sim)	7.775	114	416872	10.000	ng	0.00
104) Chlorobenzene-d5(sim)	9.810	82	179264	10.000	ng	# 0.00
System Monitoring Compounds						
62) % Bromfluorobenzene	10.596	95	244296	10.583	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	105.80%	
Target Compounds						
						Qvalue
6) Vinyl Chloride	4.011	62	1007	0.090	ppbv	71
12) Acetone	5.025	43	11554	0.478	ppbv#	88
22) Trans-1,2-Dichloroethene	6.229	61	74832	4.047	ppbv#	78
26) Cis-1,2-Dichloroethene	6.786	61	1914779	107.836	ppbv#	67
28) Chloroform	6.933	83	10583	0.421	ppbv#	85
39) Trichloroethene	8.111	130	824338	60.356	ppbv	94
48) Toluene	8.949	91	16452	0.552	ppbv#	94
52) Tetrachloroethene	9.505	166	5203462	360.211	ppbv	98
57) m p-Xylene	10.095	91	11172	0.351	ppbv	92
82) Vinyl Chloride(sim)	4.014	62	1403	0.098	ppbv	96
90) Trans-1,2-Dichloroethe...	6.232	61	87551	3.681	ppbv#	77
92) Cis-1,2-Dichloroethene...	6.789	61	2145859	95.702	ppbv#	71
93) Chloroform(sim)	6.933	83	10583	0.376	ppbv#	85
97) Trichloroethene(sim)	8.111	130	824538	54.901	ppbv	95
103) Tetrachloroethene(sim)	9.505	166	5203462	317.782	ppbv	98
106) m p-Xylene(sim)	10.098	91	11570	0.349	ppbv#	93

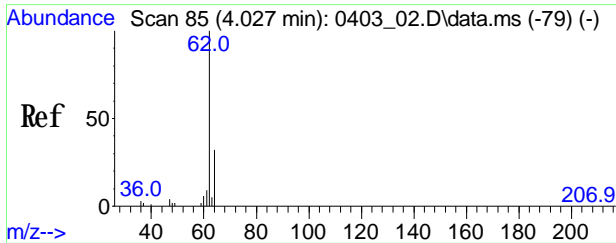
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2019\CHEM20\04APR\09\
Data File : 0409_33.D
Acq On : 10 Apr 2019 02:40 am
Operator : CORTEX\nms
Client ID : SS-4 5X
Lab ID : CC90511 5X
ALS Vial : 1 Sample Multiplier: 1

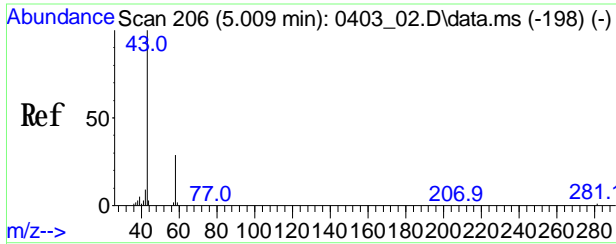
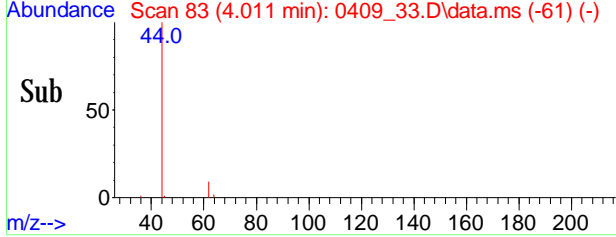
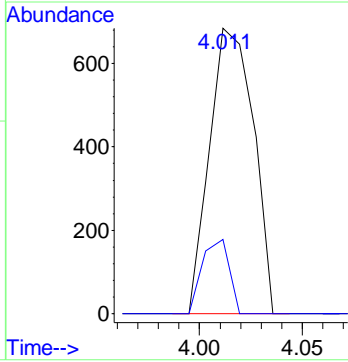
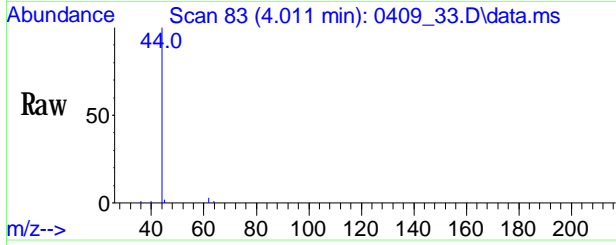
Quant Time: Apr 10 09:40:05 2019
Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_0409.M
Quant Title : VOA Standards for 5 point calibration
Last Update : Wed Apr 10 09:07:16 2019
Response via : Initial Calibration





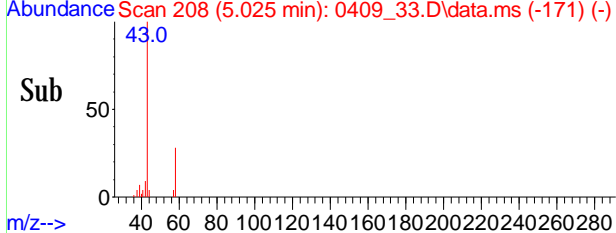
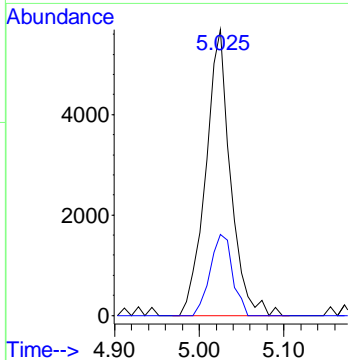
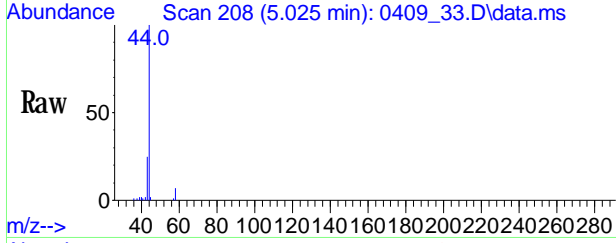
#6
 Vinyl Chloride
 Conc: 8S Below Cal
 RT: 4.011 min Scan# 83
 Delta R.T. -0.024 min
 Lab File: 0409_33.D
 Acq: 10 Apr 2019 02:40 am

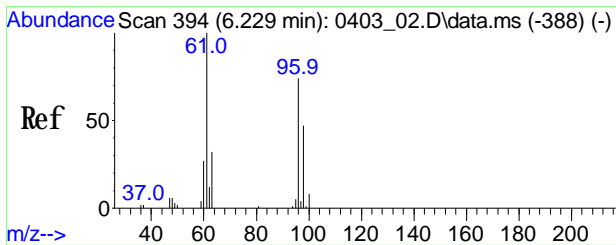
Tgt Ion	Ratio	Resp	Lower	Upper
62	100	1007		
64	16.0	12.3		52.3



#12
 Acetone
 Conc: 8S 0.478 ppby
 RT: 5.025 min Scan# 208
 Delta R.T. 0.000 min
 Lab File: 0409_33.D
 Acq: 10 Apr 2019 02:40 am

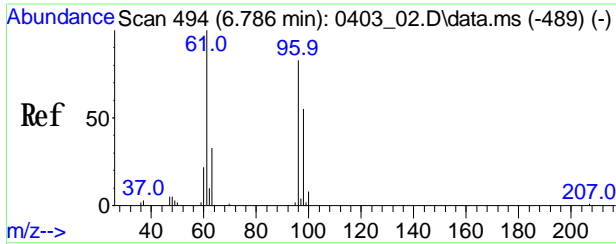
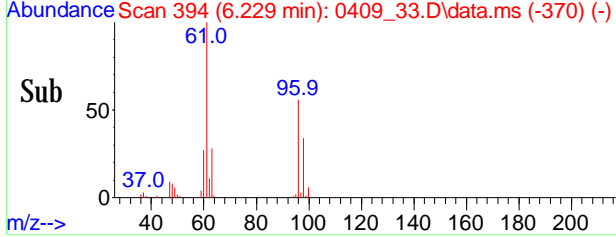
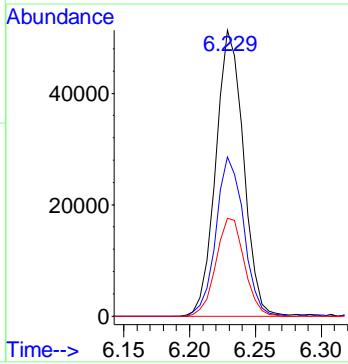
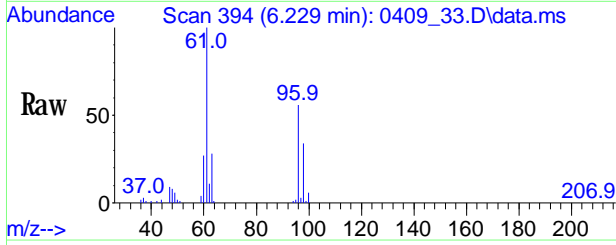
Tgt Ion	Ratio	Resp	Lower	Upper
43	100	11554		
58	25.6	25.9		38.9#





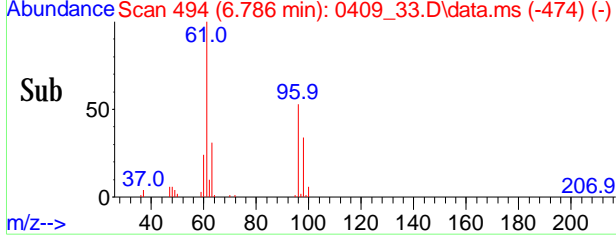
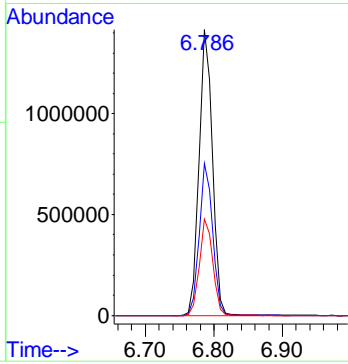
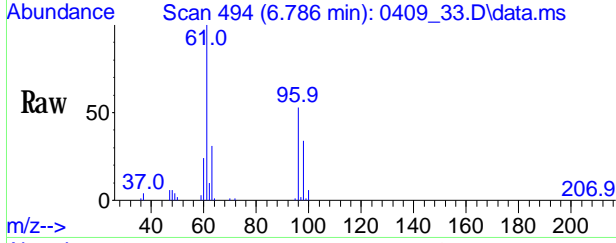
#22
 Trans-1,2-Dichloroethene
 Conc: 85 4.047 ppbv
 RT: 6.229 min Scan# 394
 Delta R.T. -0.010 min
 Lab File: 0409_33.D
 Acq: 10 Apr 2019 02:40 am

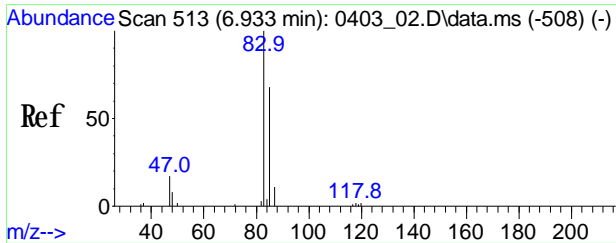
Tgt Ion	Ratio	Resp	Lower	Upper
61	100	74832		
96	55.8	60.6		90.8#
98	35.0	38.9		58.3#



#26
 Cis-1,2-Dichloroethene
 Conc: 85 107.836 ppbv
 RT: 6.786 min Scan# 494
 Delta R.T. -0.008 min
 Lab File: 0409_33.D
 Acq: 10 Apr 2019 02:40 am

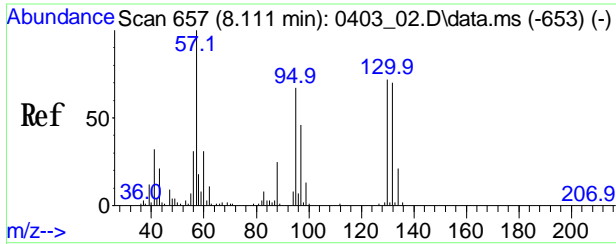
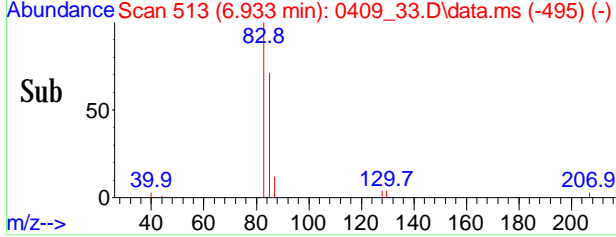
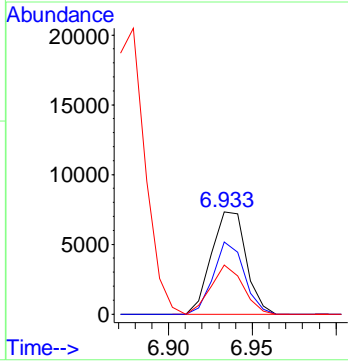
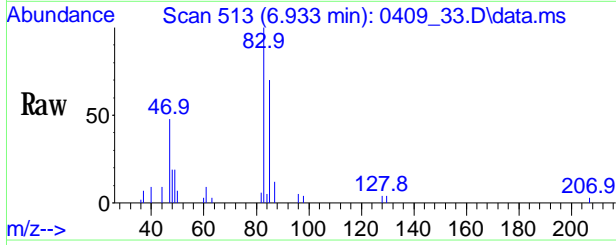
Tgt Ion	Ratio	Resp	Lower	Upper
61	100	1914779		
96	53.1	67.8		101.8#
98	33.6	43.8		65.6#





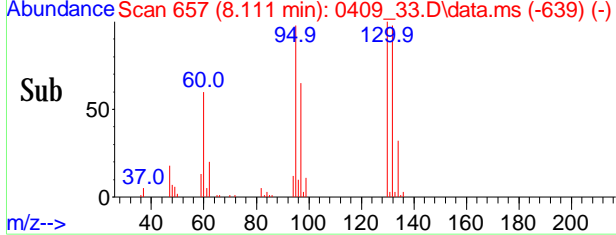
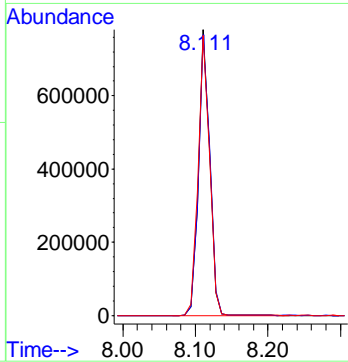
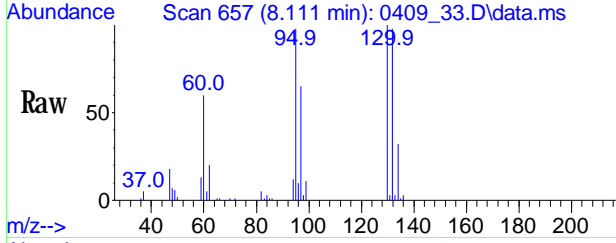
#28
 Chloroform
 Conc: 8S 0.421 ppbv
 RT: 6.933 min Scan# 513
 Delta R.T. -0.008 min
 Lab File: 0409_33.D
 Acq: 10 Apr 2019 02:40 am

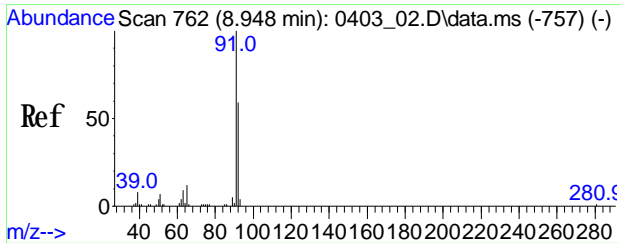
Tgt Ion	Ratio	Resp	Lower	Upper
83	100	10583		
85	62.7	45.9	85.9	
47	44.5	0.8	40.8#	



#39
 Trichloroethene
 Conc: 8S 60.356 ppbv
 RT: 8.111 min Scan# 657
 Delta R.T. -0.000 min
 Lab File: 0409_33.D
 Acq: 10 Apr 2019 02:40 am

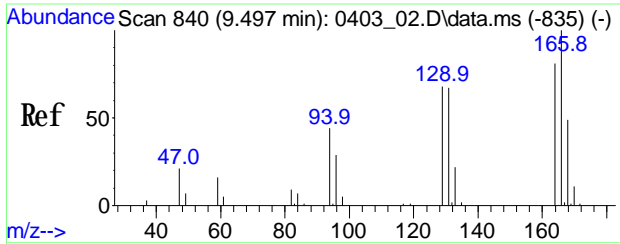
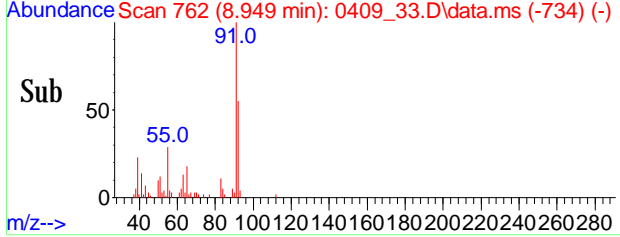
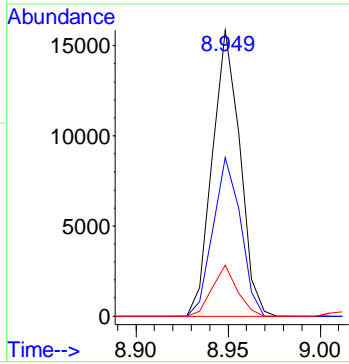
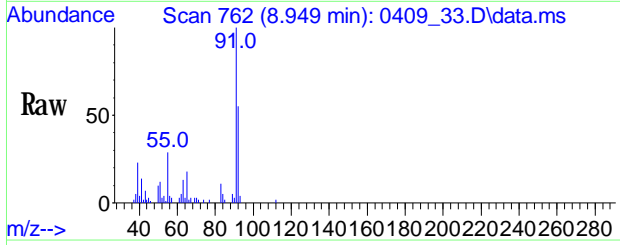
Tgt Ion	Ratio	Resp	Lower	Upper
130	100	824338		
132	99.8	78.0	117.0	
95	101.4	73.0	109.4	





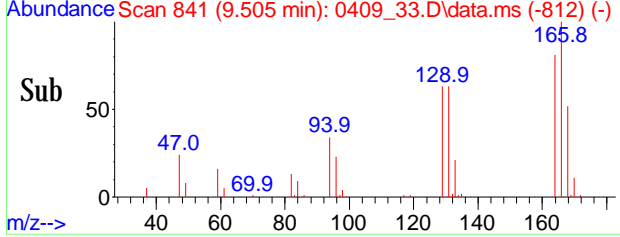
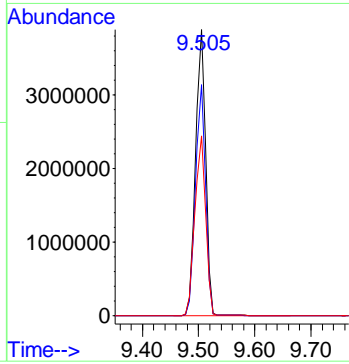
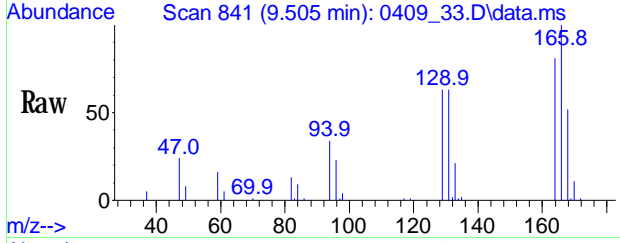
#48
 Toluene
 Conc: 8S 0.552 ppbv
 RT: 8.949 min Scan# 762
 Delta R.T. 0.000 min
 Lab File: 0409_33.D
 Acq: 10 Apr 2019 02:40 am

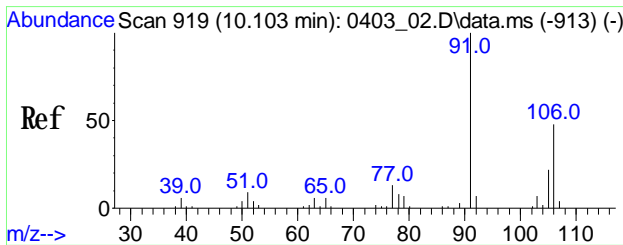
Tgt Ion	Ratio	Resp	Lower	Upper
91	100	16452		
92	55.6	47.7	71.5	
65	16.2	9.3	13.9#	



#52
 Tetrachloroethene
 Conc: 8S 360.211 ppbv
 RT: 9.505 min Scan# 841
 Delta R.T. 0.007 min
 Lab File: 0409_33.D
 Acq: 10 Apr 2019 02:40 am

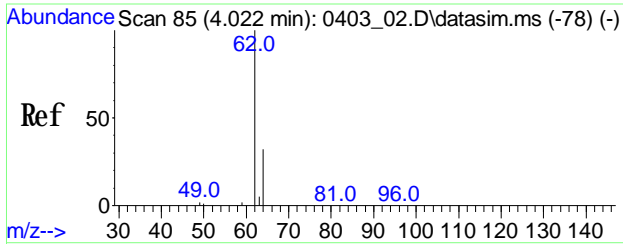
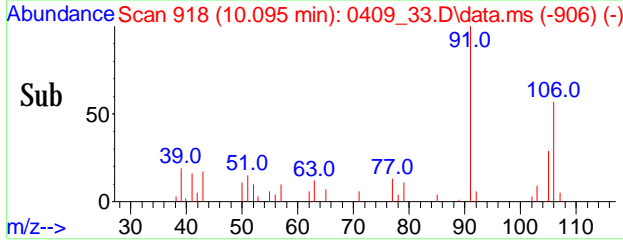
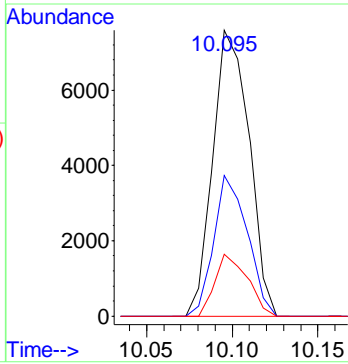
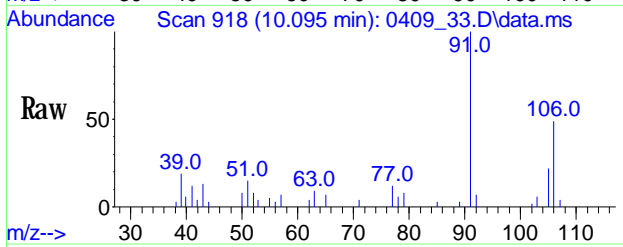
Tgt Ion	Ratio	Resp	Lower	Upper
166	100	5203462		
164	80.6	62.2	93.2	
129	67.6	54.9	82.3	





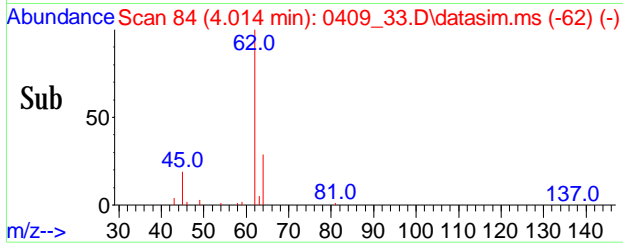
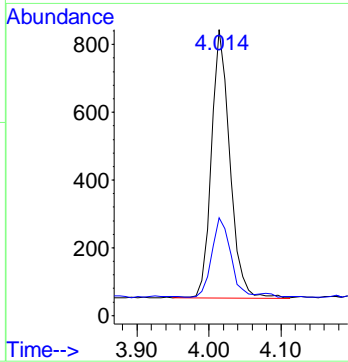
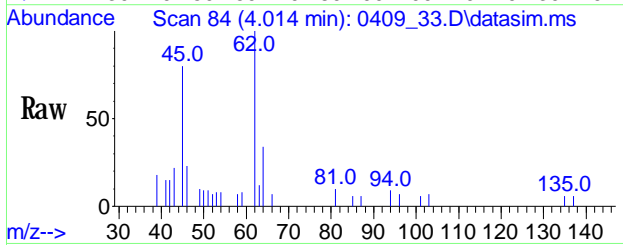
#57
 m p-Xylene
 Conc: 8S 0.351 ppby
 RT: 10.095 min Scan# 918
 Delta R.T. -0.007 min
 Lab File: 0409_33.D
 Acq: 10 Apr 2019 02:40 am

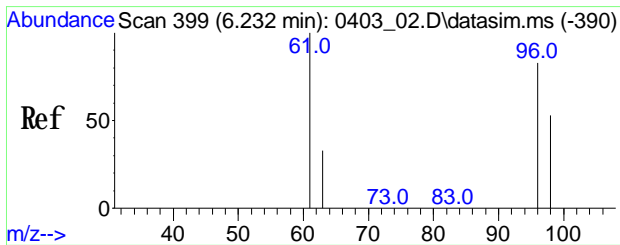
Tgt Ion	Ratio	Resp	Lower	Upper
91	100	11172		
106	45.5	40.9	61.3	
105	19.2	17.8	26.8	



#82
 Vinyl Chloride(sim)
 Conc: 8S 0.098 ppby
 RT: 4.014 min Scan# 84
 Delta R.T. -0.024 min
 Lab File: 0409_33.D
 Acq: 10 Apr 2019 02:40 am

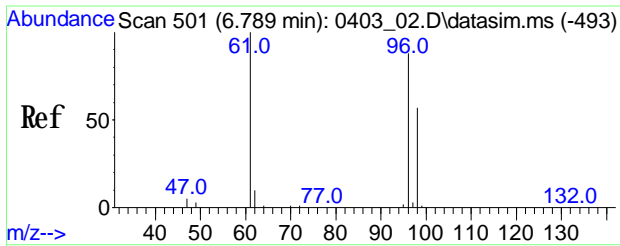
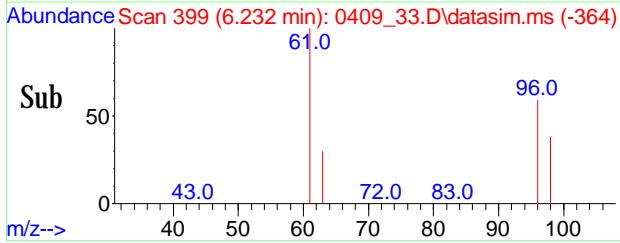
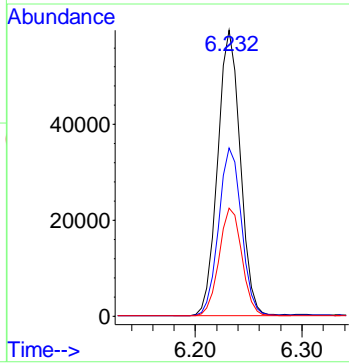
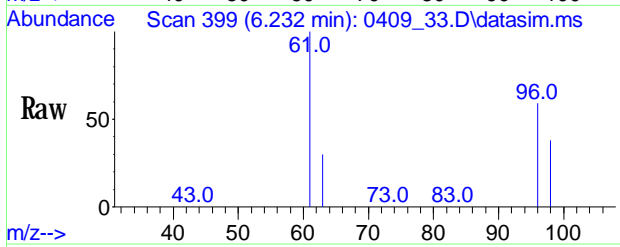
Tgt Ion	Ratio	Resp	Lower	Upper
62	100	1403		
64	30.4	26.2	39.2	





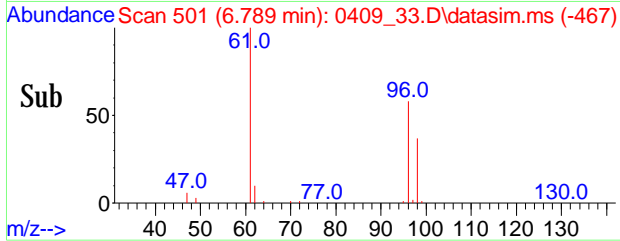
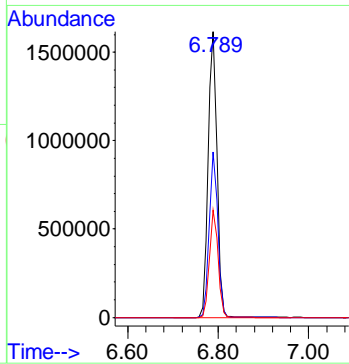
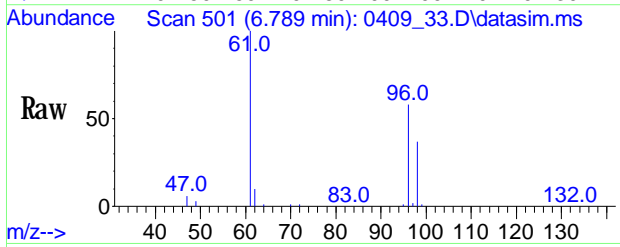
#90
 Trans-1,2-Dichloroethene (sim)
 Conc: 8S 3.681 ppbv
 RT: 6.232 min Scan# 399
 Delta R.T. -0.005 min
 Lab File: 0409_33.D
 Acq: 10 Apr 2019 02:40 am

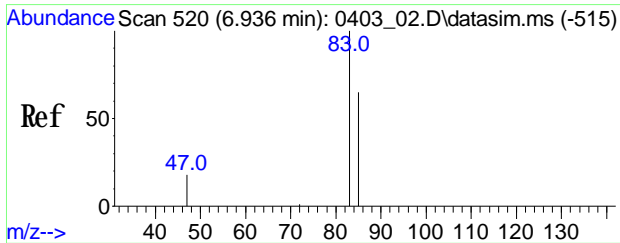
Tgt Ion	Ratio	Resp	Lower	Upper
61	100	87551		
96	59.4	64.6		97.0#
98	38.0	41.7		62.5#



#92
 Cis-1,2-Dichloroethene (sim)
 Conc: 8S 95.702 ppbv
 RT: 6.789 min Scan# 501
 Delta R.T. 0.000 min
 Lab File: 0409_33.D
 Acq: 10 Apr 2019 02:40 am

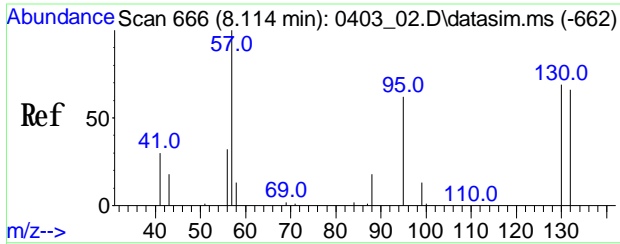
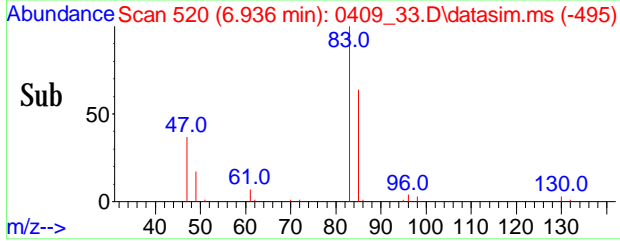
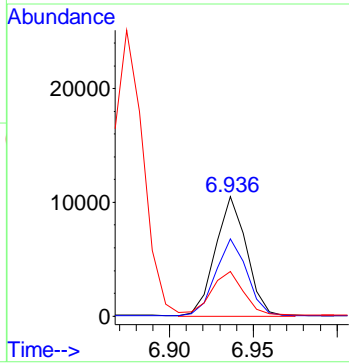
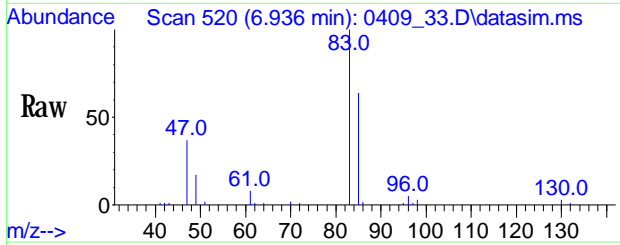
Tgt Ion	Ratio	Resp	Lower	Upper
61	100	2145859		
96	57.9	69.7		104.5#
98	37.5	45.3		67.9#





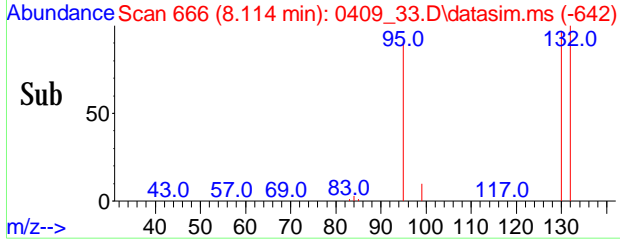
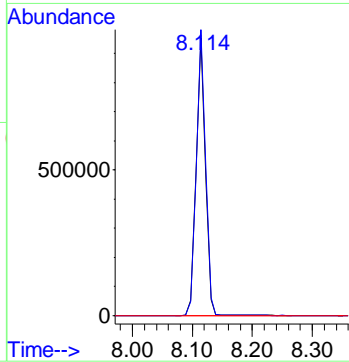
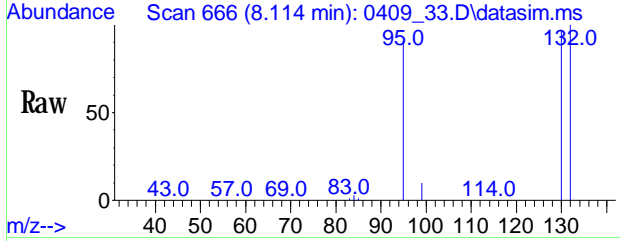
#93
 Chloroform(sim)
 Conc: 8S 0.376 ppby
 RT: 6.933 min Scan# 520
 Delta R.T. -0.008 min
 Lab File: 0409_33.D
 Acq: 10 Apr 2019 02:40 am

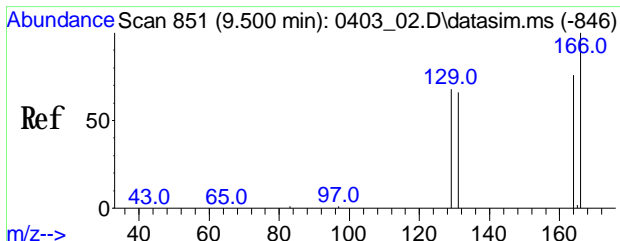
Tgt Ion	Ratio	Resp	Lower	Upper
83	100	10583		
85	62.7	52.7	79.1	
47	44.5	16.6	25.0#	



#97
 Trichloroethene(sim)
 Conc: 8S 54.901 ppby
 RT: 8.111 min Scan# 666
 Delta R.T. 0.000 min
 Lab File: 0409_33.D
 Acq: 10 Apr 2019 02:40 am

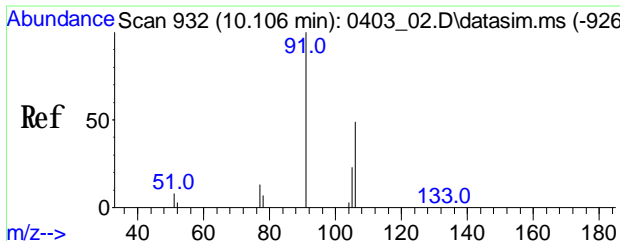
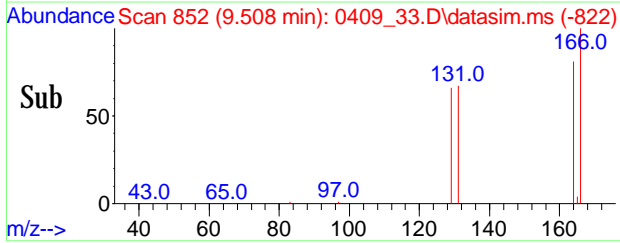
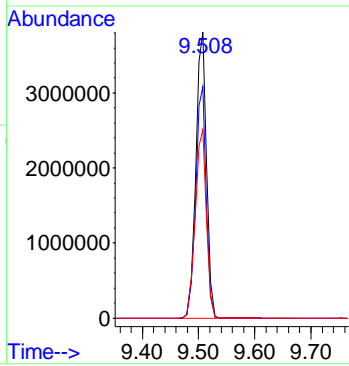
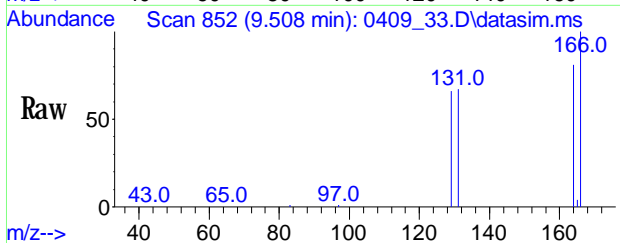
Tgt Ion	Ratio	Resp	Lower	Upper
130	100	824538		
132	99.8	78.0	117.0	
97	66.4	47.2	70.8	





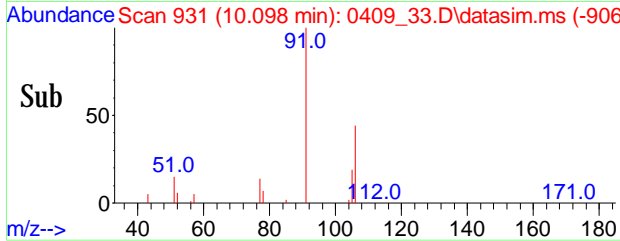
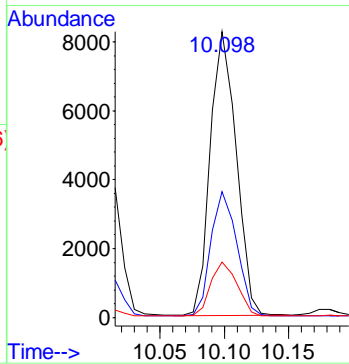
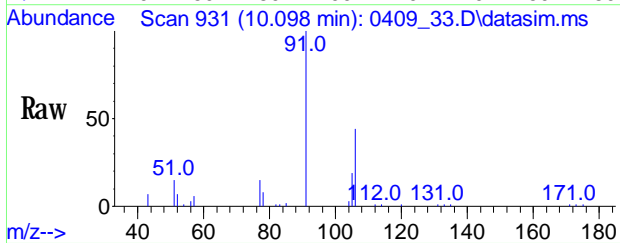
#103
 Tetrachloroethene (sim)
 Conc: 8S 317.782 ppbv
 RT: 9.505 min Scan# 852
 Delta R.T. 0.007 min
 Lab File: 0409_33.D
 Acq: 10 Apr 2019 02:40 am

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	5203462		
164	80.6	57.7	97.7	
129	67.6	48.6	88.6	



#106
 m,p-Xylene (sim)
 Conc: 8S 0.349 ppbv
 RT: 10.098 min Scan# 931
 Delta R.T. -0.007 min
 Lab File: 0409_33.D
 Acq: 10 Apr 2019 02:40 am

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	11570		
106	43.6	44.3	54.1#	
105	19.4	17.7	26.5	



1
AIR ANALYSIS DATA SHEET

CLIENT ID

SS-4 75X

Client:	<u>WALDENE</u>	Lab:	<u>Phoenix Env. Labs</u>
SDG No.:	<u>GCC90508</u>	Lab Sample ID:	<u>CC90511 75X</u>
Canister:	<u>230</u>	Lab File ID:	<u>0409_48.D</u>
Instrument:	<u>CHEM20</u>	Column:	<u>RTX-1 60M</u>
		Date Received:	<u>04/08/19</u>
Purge Volume	<u>200</u> (cc)	Date Analyzed:	<u>04/10/19</u>
Matrix:	<u>AIR</u>	Dilution Factor:	<u>75</u>

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
67-64-1	Acetone	31.6	U	31.6	31.6	
156-59-2	Cis-1,2-Dichloroethene	391	D	3.79	3.79	r
79-01-6	Trichloroethene	217	D	2.79	2.79	r
108-88-3	Toluene	19.9	U	19.9	19.9	
127-18-4	Tetrachloroethene	2150	D	2.77	2.77	r
75-01-4	Vinyl Chloride(sim)	5.87	U	5.87	5.87	
156-60-5	Trans-1,2-Dichloroethene(sim)	18.9	U	18.9	18.9	
67-66-3	Chloroform(sim)	15.4	U	15.4	15.4	
179601-23-1	m,p-Xylene(sim)	17.3	U	17.3	17.3	

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.

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2019\CHEM20\04APR\09\
 Data File : 0409_48.D
 Acq On : 10 Apr 2019 12:42 pm
 Operator : CORTEX\ms
 Client ID : SS-4 75X
 Lab ID : CC90511 75X
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 10 16:00:24 2019
 Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_0409.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Wed Apr 10 09:42:38 2019
 Response via : Initial Calibration

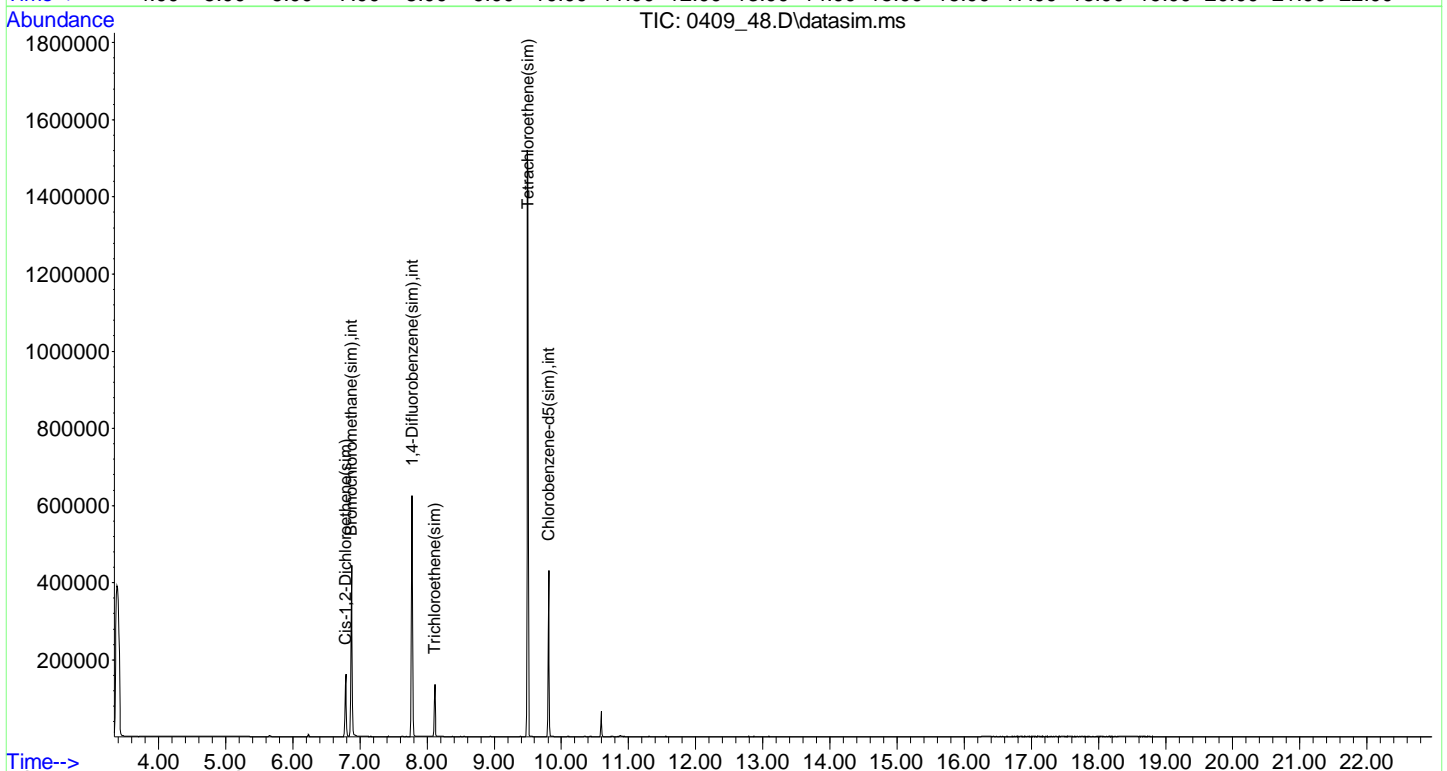
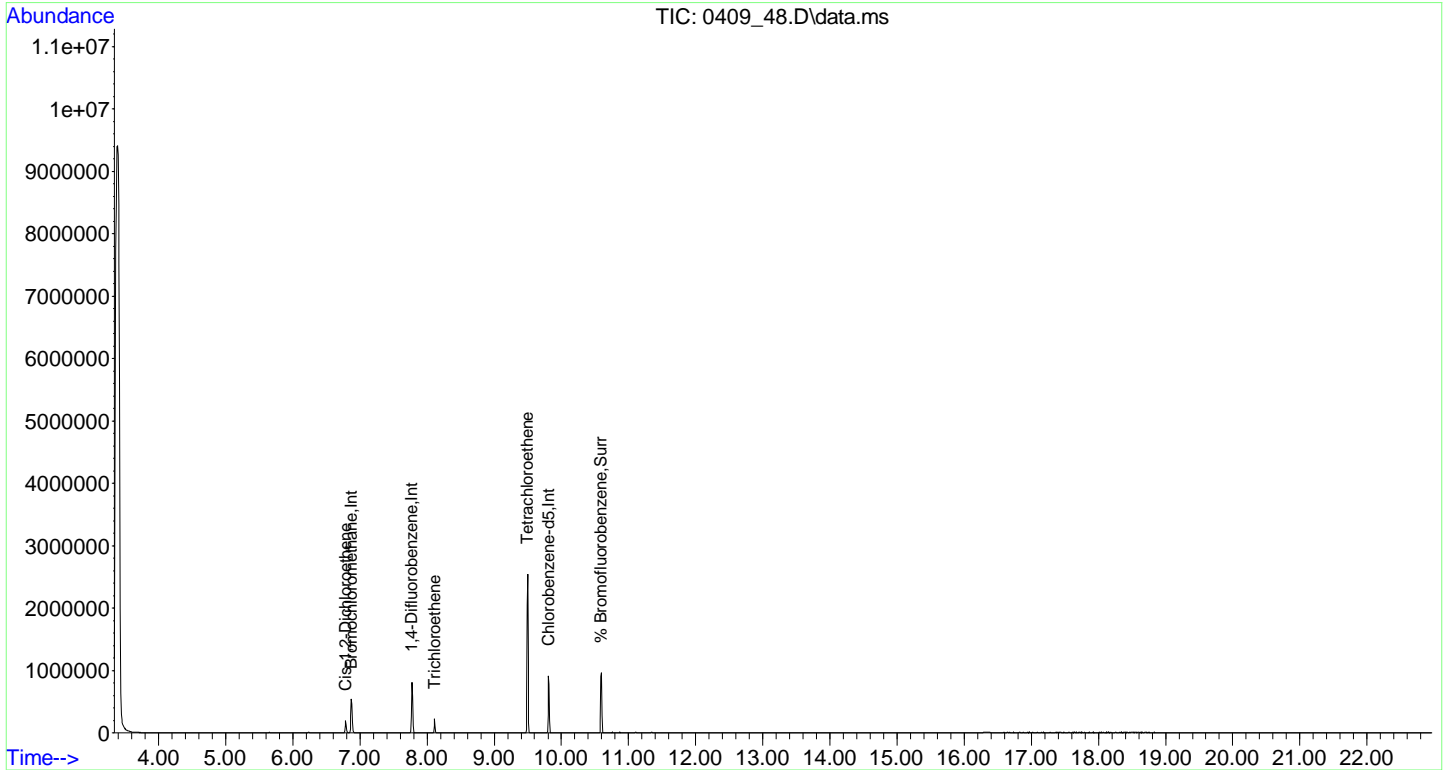
Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
Internal Standards						
1) Bromchloromethane	6.871	130	97046	10.000	ng	0.00
36) 1,4-Difluorobenzene	7.772	114	324029	10.000	ng	0.00
53) Chlorobenzene-d5	9.807	82	164483	10.000	ng	# 0.00
80) Bromchloromethane(sim)	6.874	130	135711	10.000	ng	# 0.00
94) 1,4-Difluorobenzene(sim)	7.775	114	375973	10.000	ng	0.00
104) Chlorobenzene-d5(sim)	9.810	82	165386	10.000	ng	# 0.00
System Monitoring Compounds						
62) % Bromfluorobenzene	10.596	95	218549	10.135	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	101.40%
Target Compounds						
26) Cis-1,2-Dichloroethene	6.786	61	83041	5.211	ppbv#	69
39) Trichloroethene	8.111	130	35120	2.887	ppbv#	88
52) Tetrachloroethene	9.498	166	368631	28.649	ppbv#	89
92) Cis-1,2-Dichloroethene...	6.789	61	96771	4.722	ppbv#	71
97) Trichloroethene(sim)	8.111	130	35120	2.593	ppbv#	92
103) Tetrachloroethene(sim)	9.498	166	368631	24.962	ppbv	89

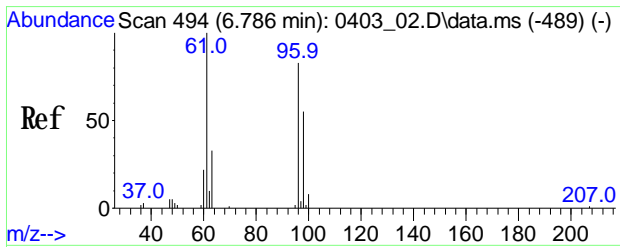
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2019\CHEM20\04APR\09\
Data File : 0409_48.D
Acq On : 10 Apr 2019 12:42 pm
Operator : CORTEX\ns
Client ID : SS-4 75X
Lab ID : CC90511 75X
ALS Vial : 1 Sample Multiplier: 1

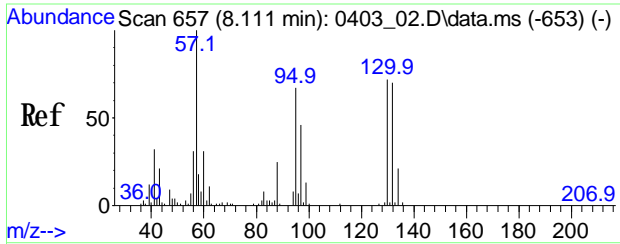
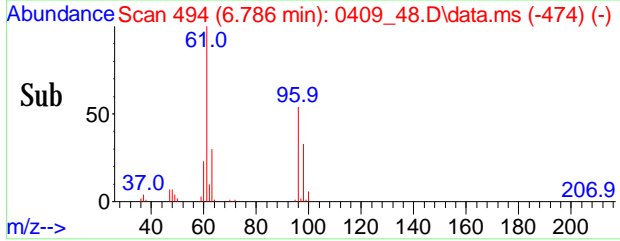
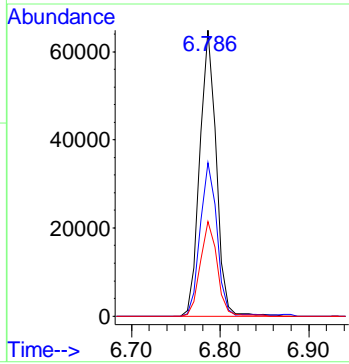
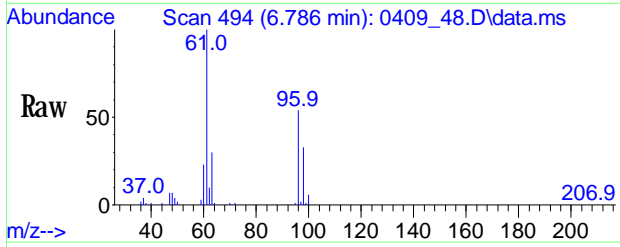
Quant Time: Apr 10 16:00:24 2019
Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_0409.M
Quant Title : VOA Standards for 5 point calibration
Last Update : Wed Apr 10 09:42:38 2019
Response via : Initial Calibration





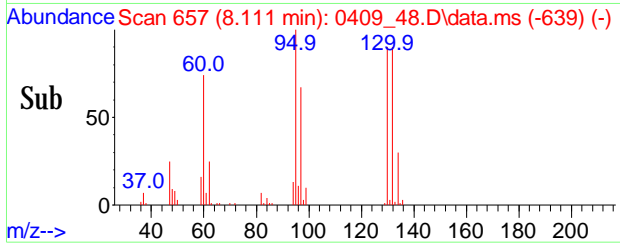
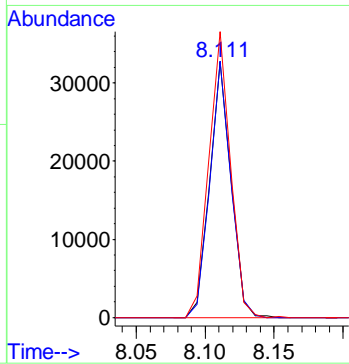
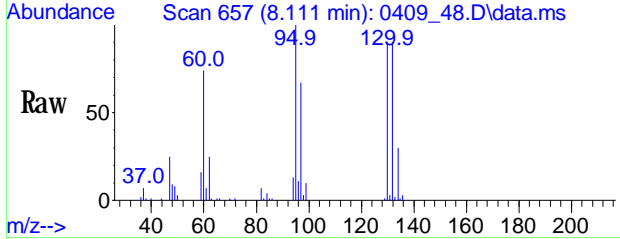
#26
 Cis-1,2-Dichloroethene
 Conc: 8S 5.211 ppby
 RT: 6.786 min Scan# 494
 Delta R.T. -0.008 min
 Lab File: 0409_48.D
 Acq: 10 Apr 2019 12:42 pm

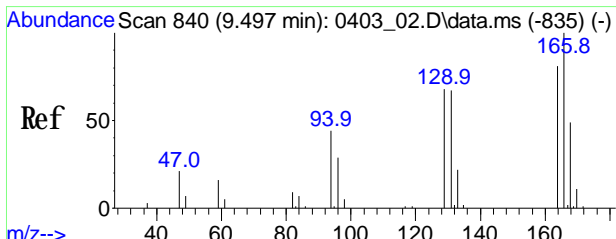
Tgt Ion	Ratio	Resp	Lower	Upper
61	100			
96	54.6	67.8		101.8#
98	34.1	43.8		65.6#



#39
 Trichloroethene
 Conc: 8S 2.887 ppby
 RT: 8.111 min Scan# 657
 Delta R.T. -0.000 min
 Lab File: 0409_48.D
 Acq: 10 Apr 2019 12:42 pm

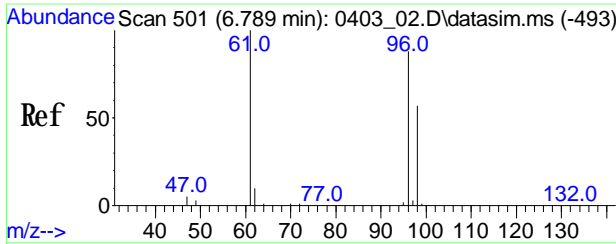
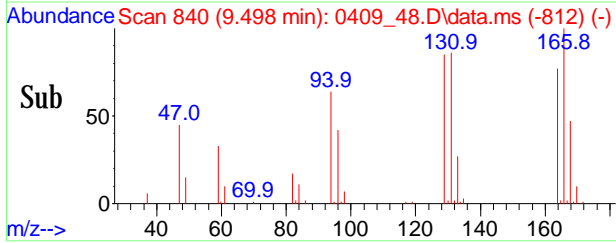
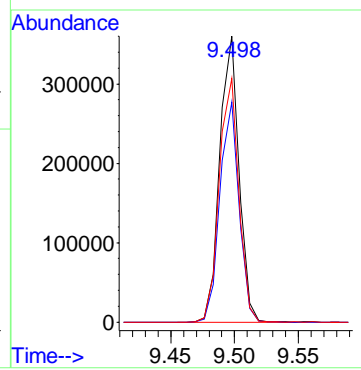
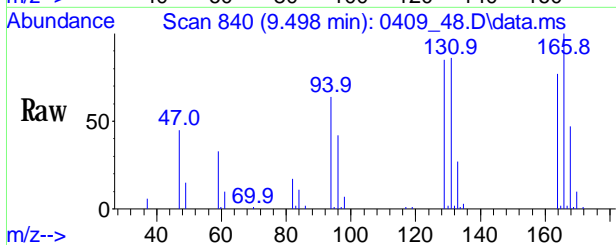
Tgt Ion	Ratio	Resp	Lower	Upper
130	100			
132	98.5	78.0		117.0
95	113.5	73.0		109.4#





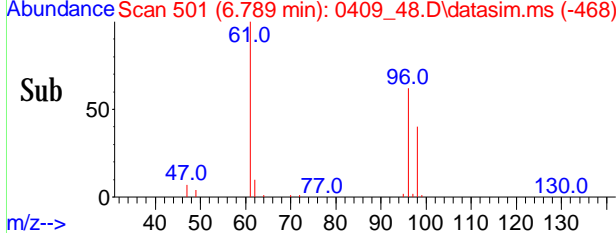
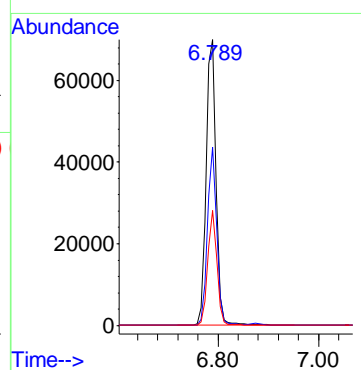
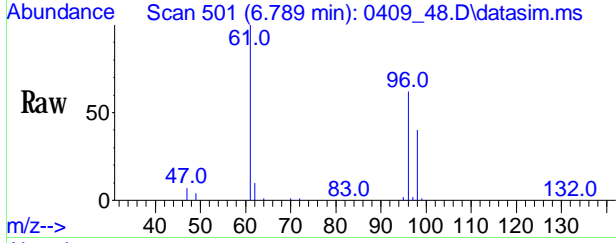
#52
Tetrachloroethene
 Conc: 8S 28.649 ppbv
 RT: 9.498 min Scan# 840
 Delta R.T. 0.001 min
 Lab File: 0409_48.D
 Acq: 10 Apr 2019 12:42 pm

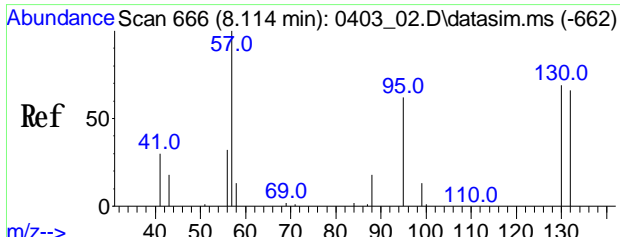
Tgt Ion	Ratio	Resp	Upper
166	100	368631	Lower
164	76.7	62.2	93.2
129	86.7	54.9	82.3#



#92
Cis-1,2-Dichloroethene (sim)
 Conc: 8S 4.722 ppbv
 RT: 6.789 min Scan# 501
 Delta R.T. 0.000 min
 Lab File: 0409_48.D
 Acq: 10 Apr 2019 12:42 pm

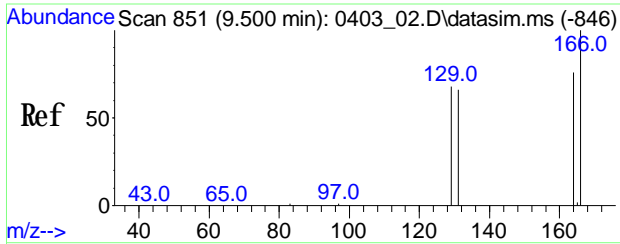
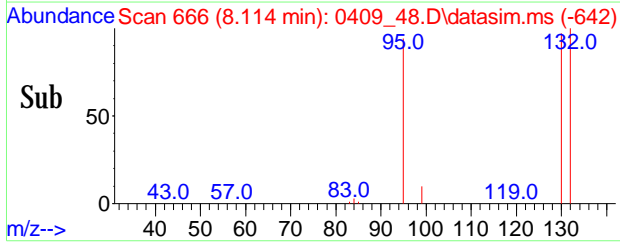
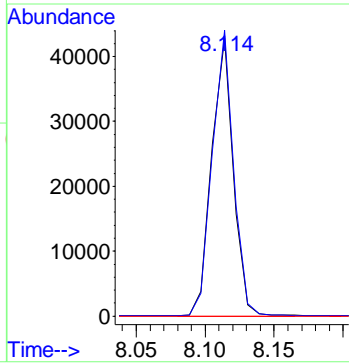
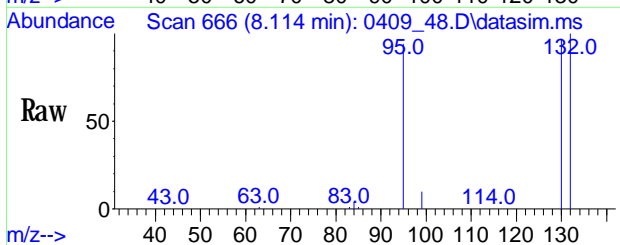
Tgt Ion	Ratio	Resp	Upper
61	100	96771	Lower
96	58.5	69.7	104.5#
98	37.8	45.3	67.9#





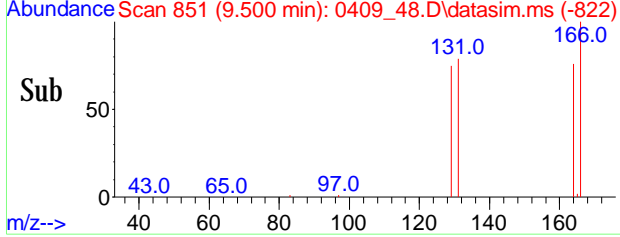
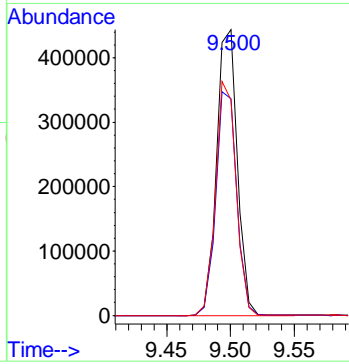
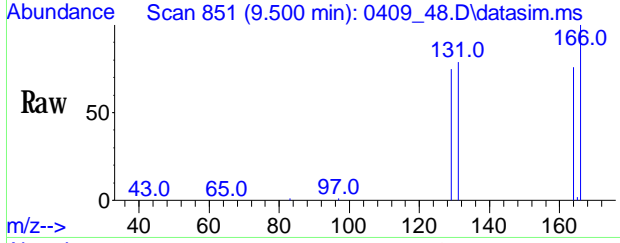
#97
 Trichloroethene(sim)
 Conc: 8S 2.593 ppbv
 RT: 8.111 min Scan# 666
 Delta R.T. -0.000 min
 Lab File: 0409_48.D
 Acq: 10 Apr 2019 12:42 pm

Tgt Ion	Ratio	Resp	Lower	Upper
130	100	35120		
132	98.5	78.0	117.0	
97	73.3	47.2	70.8#	



#103
 Tetrachloroethene(sim)
 Conc: 8S 24.962 ppbv
 RT: 9.498 min Scan# 851
 Delta R.T. 0.001 min
 Lab File: 0409_48.D
 Acq: 10 Apr 2019 12:42 pm

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	368631		
164	76.7	57.7	97.7	
129	86.7	48.6	88.6	



1
AIR ANALYSIS DATA SHEET

CLIENT ID

SS-DUP 5X

Client:	<u>WALDENE</u>	Lab:	<u>Phoenix Env. Labs</u>
SDG No.:	<u>GCC90508</u>	Lab Sample ID:	<u>CC90512 5X</u>
Canister:	<u>215</u>	Lab File ID:	<u>0409_34.D</u>
Instrument:	<u>CHEM20</u>	Column:	<u>RTX-1 60M</u>
		Date Received:	<u>04/08/19</u>
Purge Volume	<u>200</u> (cc)	Date Analyzed:	<u>04/10/19</u>
Matrix:	<u>AIR</u>	Dilution Factor:	<u>5</u>

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	2.91	U	2.91	2.91	r
75-71-8	Dichlorodifluoromethane	1.01	U	1.01	1.01	r
74-87-3	Chloromethane	2.42	U	2.42	2.42	r
106-99-0	1,3-Butadiene	2.26	U	2.26	2.26	r
75-00-3	Chloroethane	1.90	U	1.90	1.90	r
64-17-5	Ethanol	2.66	U	2.66	2.66	r
67-64-1	Acetone	3.59	S	2.11	2.11	r
67-63-0	Isopropylalcohol	2.04	U	2.04	2.04	r
107-13-1	Acrylonitrile	2.31	U	2.31	2.31	r
75-09-2	Methylene Chloride	4.32	U	4.32	4.32	r
75-15-0	Carbon Disulfide	1.61	U	1.61	1.61	r
156-60-5	Trans-1,2-Dichloroethene	4.16		1.26	1.26	r
1634-04-4	Methyl tert-butyl ether(MTBE)	1.39	U	1.39	1.39	r
78-93-3	Methyl Ethyl Ketone	1.70	U	1.70	1.70	r
156-59-2	Cis-1,2-Dichloroethene	84.8		0.252	0.252	r
110-54-3	Hexane	1.42	U	1.42	1.42	r
67-66-3	Chloroform	1.59		1.02	1.02	r
141-78-6	Ethyl acetate	1.39	U	1.39	1.39	r
109-99-9	Tetrahydrofuran	1.70	U	1.70	1.70	r
71-43-2	Benzene	1.57	U	1.57	1.57	r
110-82-7	Cyclohexane	1.45	U	1.45	1.45	r
79-01-6	Trichloroethene	49.4		0.186	0.186	r
142-82-5	Heptane	1.22	U	1.22	1.22	r
108-10-1	4-Methyl-2-pentanone(MIBK)	1.22	U	1.22	1.22	r
10061-02-6	trans-1,3-Dichloropropene	1.10	U	1.10	1.10	r
108-88-3	Toluene	2.83		1.33	1.33	r
591-78-6	2-Hexanone(MBK)	1.22	U	1.22	1.22	r
127-18-4	Tetrachloroethene	1510	E	0.184	0.184	
630-20-6	1,1,1,2-Tetrachloroethane	0.729	U	0.729	0.729	r
108-90-7	Chlorobenzene	1.09	U	1.09	1.09	r
100-41-4	Ethylbenzene	1.15	U	1.15	1.15	r
100-42-5	Styrene	1.17	U	1.17	1.17	r
95-47-6	o-Xylene	1.15	U	1.15	1.15	r
98-82-8	Isopropylbenzene	1.02	U	1.02	1.02	r
622-96-8	4-Ethyltoluene	1.02	U	1.02	1.02	r
108-67-8	1,3,5-Trimethylbenzene	1.02	U	1.02	1.02	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

SS-DUP 5X

Client:	WALDENE	Lab:	Phoenix Env. Labs
SDG No.:	GCC90508	Lab Sample ID:	CC90512 5X
Canister:	215	Lab File ID:	0409_34.D
Instrument:	CHEM20	Column:	RTX-1 60M
Purge Volume	200 (cc)	Date Received:	04/08/19
Matrix:	AIR	Date Analyzed:	04/10/19
		Dilution Factor:	5

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
95-63-6	1,2,4-Trimethylbenzene	1.02	U	1.02	1.02	r
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.716	U	0.716	0.716	r
75-01-4	Vinyl Chloride(sim)	0.391	U	0.391	0.391	r
74-83-9	Bromomethane(sim)	1.29	U	1.29	1.29	r
75-69-4	Trichlorofluoromethane(sim)	0.891	U	0.891	0.891	r
107-06-2	1,2-Dichloroethane(sim)	1.24	U	1.24	1.24	r
71-55-6	1,1,1-Trichloroethane(sim)	0.917	U	0.917	0.917	r
56-23-5	Carbon Tetrachloride(sim)	0.159	U	0.159	0.159	r
75-35-4	1,1-Dichloroethene(sim)	0.252	U	0.252	0.252	r
76-13-1	Trichlorotrifluoroethane(sim)	0.653	U	0.653	0.653	r
75-34-3	1,1-Dichloroethane(sim)	1.24	U	1.24	1.24	r
78-87-5	1,2-dichloropropane(sim)	1.08	U	1.08	1.08	r
75-27-4	Bromodichloromethane(sim)	0.747	U	0.747	0.747	r
123-91-1	1,4-Dioxane(sim)	1.39	U	1.39	1.39	r
10061-01-5	cis-1,3-Dichloropropene(sim)	1.10	U	1.10	1.10	r
79-00-5	1,1,2-Trichloroethane(sim)	0.917	U	0.917	0.917	r
124-48-1	Dibromochloromethane(sim)	0.587	U	0.587	0.587	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.651	U	0.651	0.651	r
75-25-2	Bromoform(sim)	0.484	U	0.484	0.484	r
179601-23-1	m,p-Xylene(sim)	1.80		1.15	1.15	r
79-34-5	1,1,1,2-Tetrachloroethane(sim)	0.729	U	0.729	0.729	r
100-44-7	Benzyl chloride(sim)	0.966	U	0.966	0.966	r
541-73-1	1,3-Dichlorobenzene(sim)	0.832	U	0.832	0.832	r
106-46-7	1,4-Dichlorobenzene(sim)	0.832	U	0.832	0.832	r
135-98-8	sec-Butylbenzene(sim)	0.911	U	0.911	0.911	r
99-87-6	4-Isopropyltoluene(sim)	0.911	U	0.911	0.911	r
95-50-1	1,2-Dichlorobenzene(sim)	0.832	U	0.832	0.832	r
104-51-8	n-Butylbenzene(sim)	0.911	U	0.911	0.911	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.674	U	0.674	0.674	r
87-68-3	Hexachlorobutadiene(sim)	0.469	U	0.469	0.469	r

FORM I AIR

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

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2019\CHEM20\04APR\09\
 Data File : 0409_34.D
 Acq On : 10 Apr 2019 03:18 am
 Operator : CORTEX\ms
 Client ID : SS-DUP 5X
 Lab ID : CC90512 5X
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 10 10:28:51 2019
 Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_0409.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Wed Apr 10 09:07:16 2019
 Response via : Initial Calibration

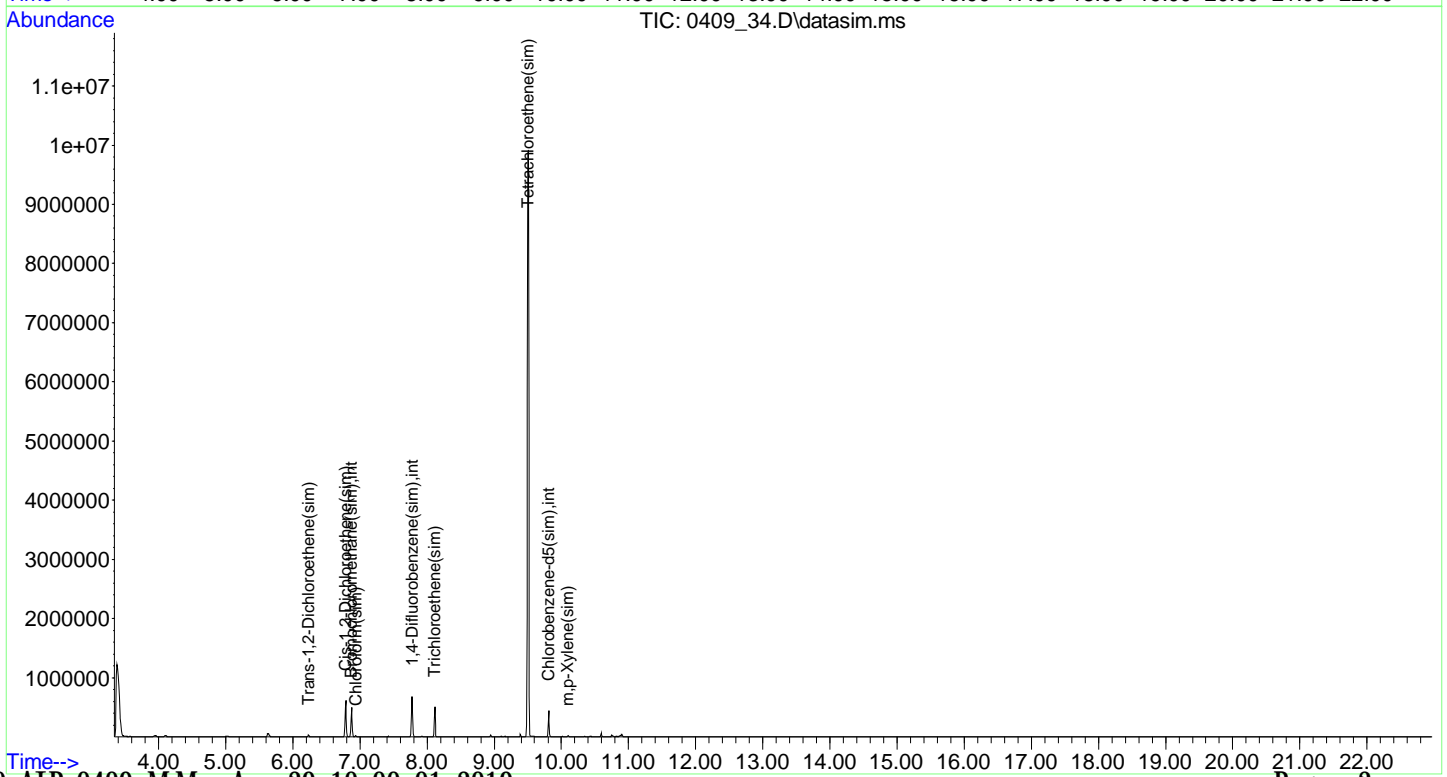
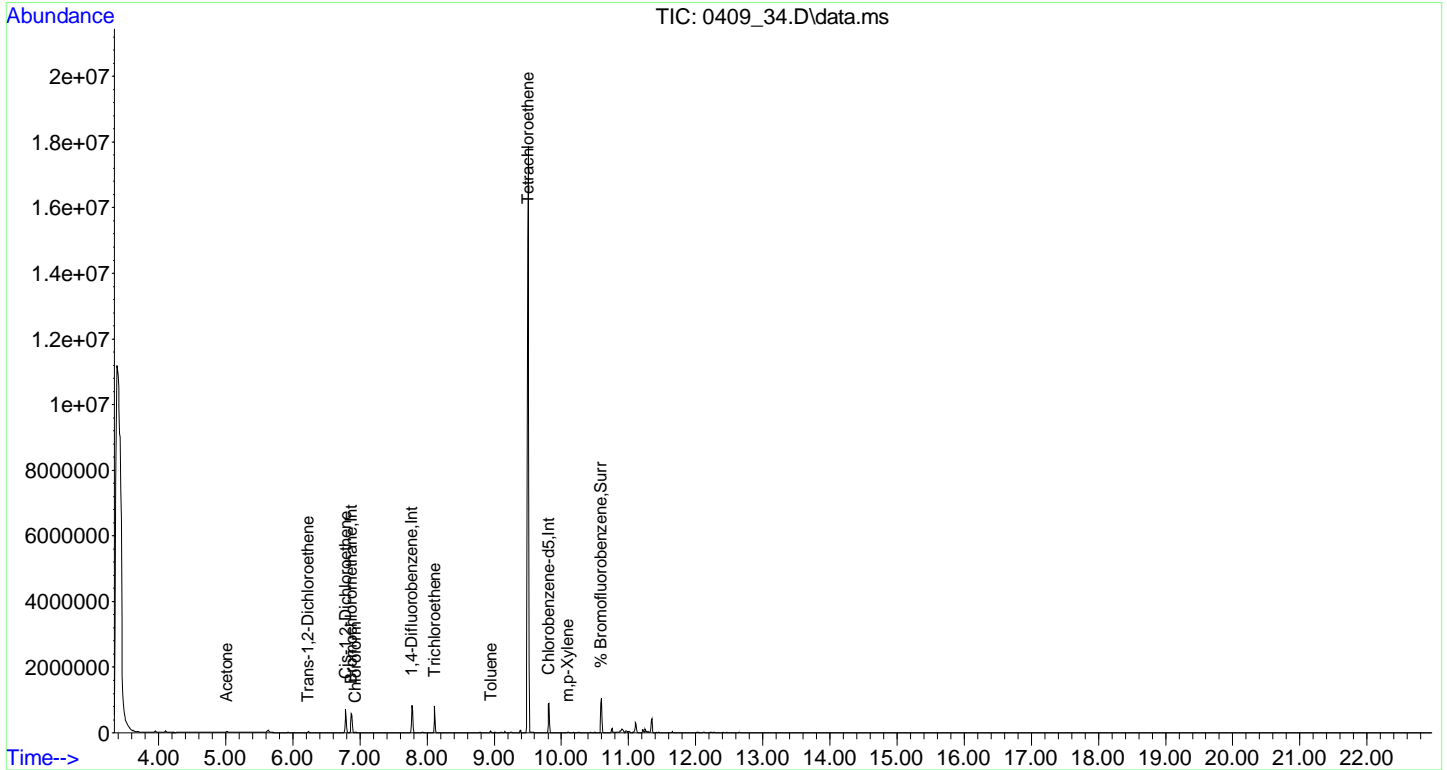
Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
Internal Standards						
1) Bromchloromethane	6.871	130	110428	10.000	ng	0.00
36) 1,4-Difluorobenzene	7.772	114	361275	10.000	ng	0.00
53) Chlorobenzene-d5	9.807	82	175180	10.000	ng	# 0.00
80) Bromchloromethane(sim)	6.874	130	153174	10.000	ng	# 0.00
94) 1,4-Difluorobenzene(sim)	7.775	114	416485	10.000	ng	0.00
104) Chlorobenzene-d5(sim)	9.810	82	176329	10.000	ng	# 0.00
System Monitoring Compounds						
62) % Bromfluorobenzene	10.596	95	233104	10.150	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	101.50%
Target Compounds						
12) Acetone	5.017	43	17714	0.717	ppbv	Qvalue 95
22) Trans-1,2-Dichloroethene	6.229	61	15713	0.832	ppbv#	80
26) Cis-1,2-Dichloroethene	6.786	61	307588	16.962	ppbv#	70
28) Chloroform	6.933	83	8139	0.317	ppbv#	86
39) Trichloroethene	8.111	130	134125	9.888	ppbv	91
48) Toluene	8.949	91	16750	0.565	ppbv#	98
52) Tetrachloroethene	9.505	166	4327360	301.642	ppbv	98
57) m p-Xylene	10.095	91	11102	0.351	ppbv	92
90) Trans-1,2-Dichloroethe...	6.232	61	18438	0.751	ppbv#	79
92) Cis-1,2-Dichloroethene...	6.789	61	359688	15.551	ppbv#	71
93) Chloroform(sim)	6.933	83	8139	0.280	ppbv#	86
97) Trichloroethene(sim)	8.111	130	134125	8.939	ppbv	95
103) Tetrachloroethene(sim)	9.505	166	4324814	264.367	ppbv	98
106) m p-Xylene(sim)	10.098	91	11680	0.359	ppbv#	93

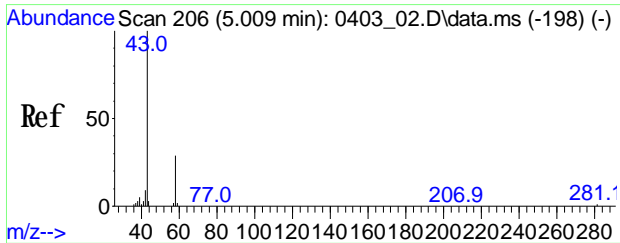
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2019\CHEM20\04APR\09\
Data File : 0409_34.D
Acq On : 10 Apr 2019 03:18 am
Operator : CORTEX\ns
Client ID : SS-DUP 5X
Lab ID : CC90512 5X
ALS Vial : 1 Sample Multiplier: 1

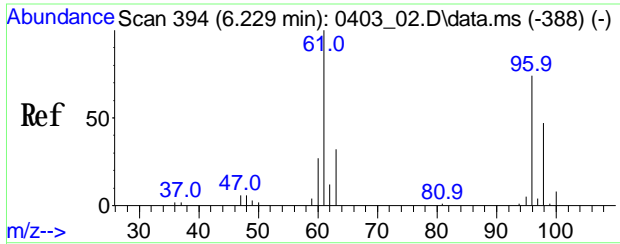
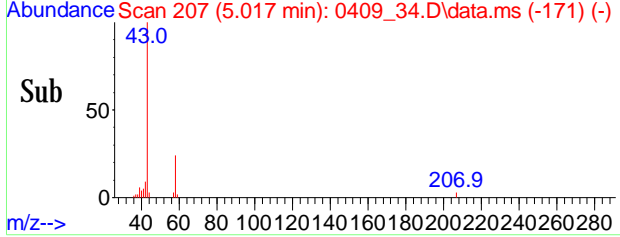
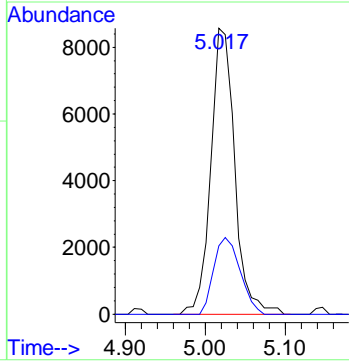
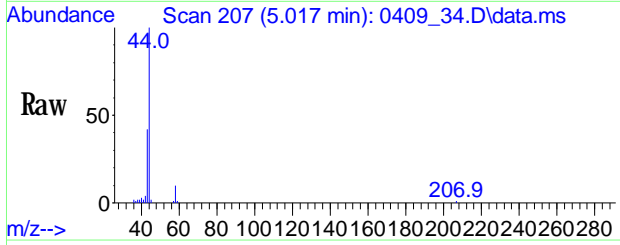
Quant Time: Apr 10 10:28:51 2019
Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_0409.M
Quant Title : VOA Standards for 5 point calibration
Last Update : Wed Apr 10 09:07:16 2019
Response via : Initial Calibration





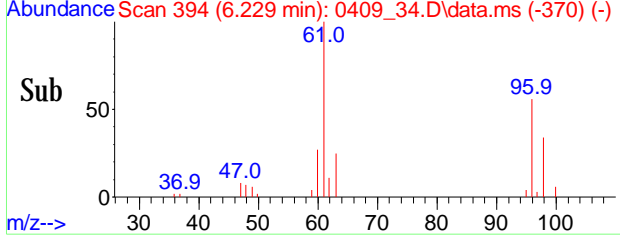
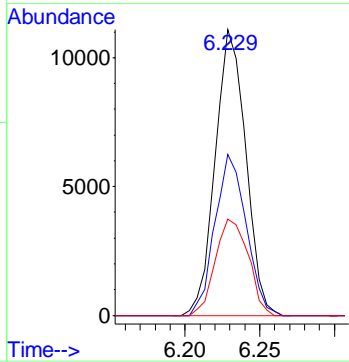
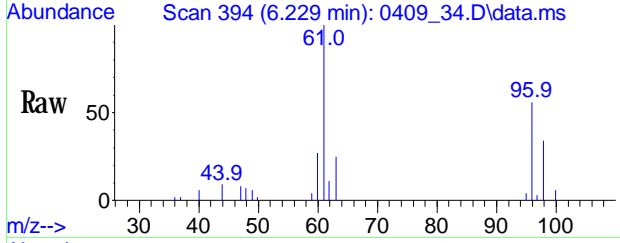
#12
 Acetone
 Conc: 8S 0.717 ppbv
 RT: 5.017 min Scan# 207
 Delta R.T. -0.008 min
 Lab File: 0409_34.D
 Acq: 10 Apr 2019 03:18 am

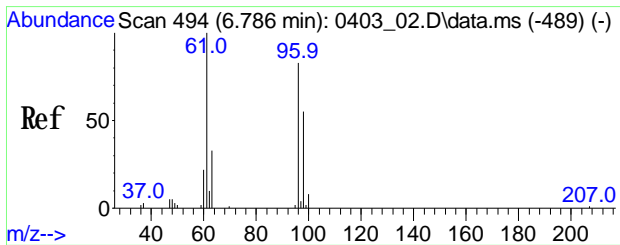
Tgt Ion: 43 Resp: 17714
 Ion Ratio Lower Upper
 43 100
 58 29.6 25.9 38.9



#22
 Trans-1,2-Dichloroethene
 Conc: 8S 0.832 ppbv
 RT: 6.229 min Scan# 394
 Delta R.T. -0.010 min
 Lab File: 0409_34.D
 Acq: 10 Apr 2019 03:18 am

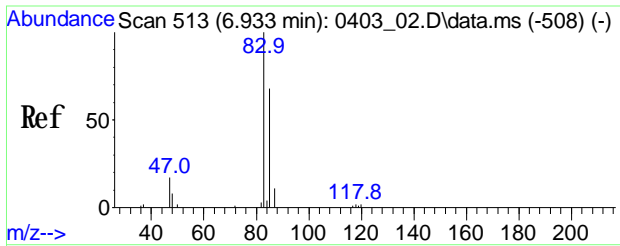
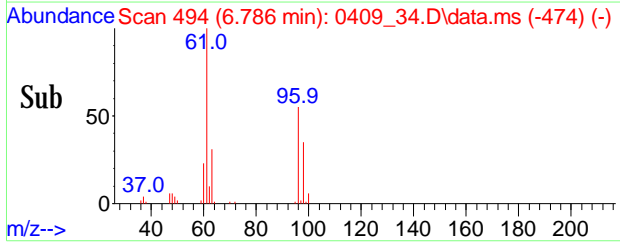
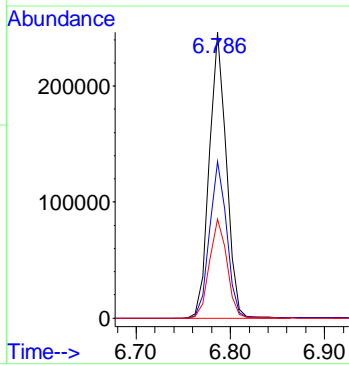
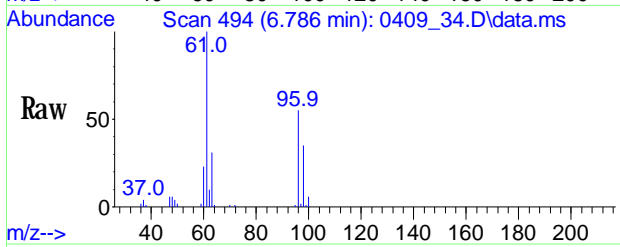
Tgt Ion: 61 Resp: 15713
 Ion Ratio Lower Upper
 61 100
 96 57.8 60.6 90.8#
 98 36.5 38.9 58.3#





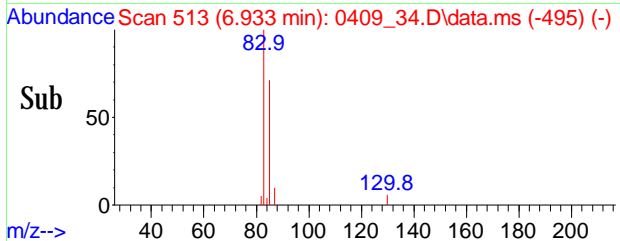
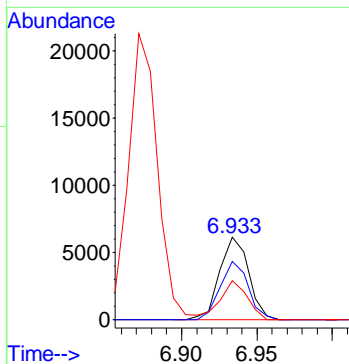
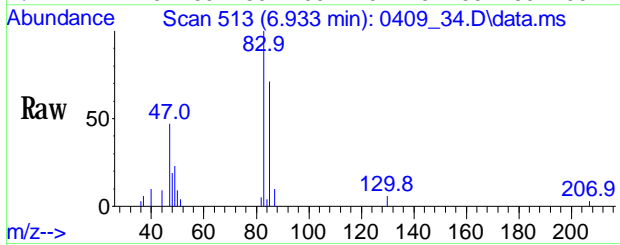
#26
 Cis-1,2-Dichloroethene
 Conc: 8S 16.962 ppby
 RT: 6.786 min Scan# 494
 Delta R.T. -0.008 min
 Lab File: 0409_34.D
 Acq: 10 Apr 2019 03:18 am

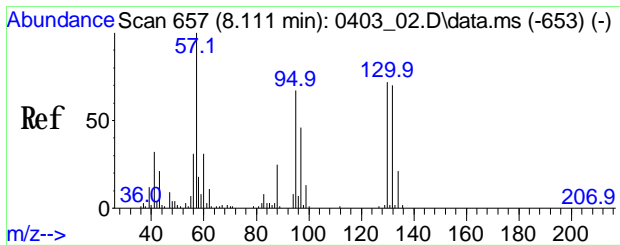
Tgt Ion	Ratio	Resp	Upper
61	100	307588	Lower
96	55.3	67.8	101.8#
98	35.6	43.8	65.6#



#28
 Chloroform
 Conc: 8S 0.317 ppby
 RT: 6.933 min Scan# 513
 Delta R.T. -0.008 min
 Lab File: 0409_34.D
 Acq: 10 Apr 2019 03:18 am

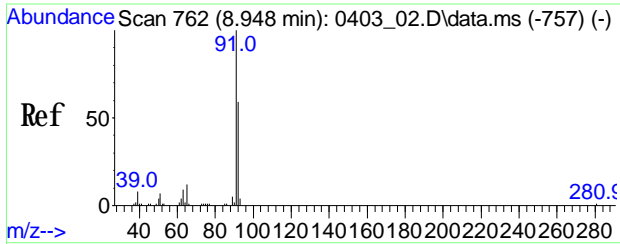
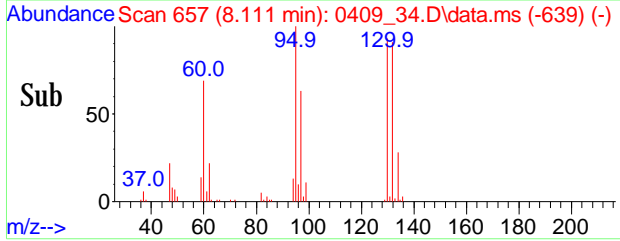
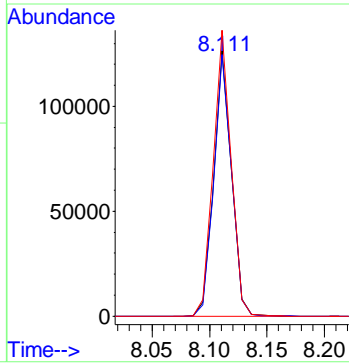
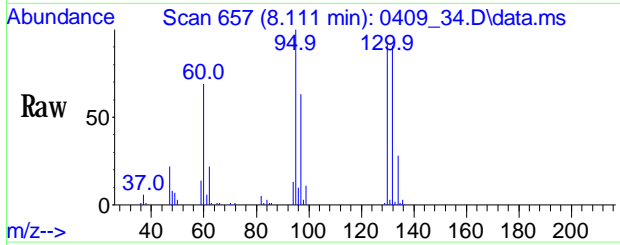
Tgt Ion	Ratio	Resp	Upper
83	100	8139	Lower
85	68.3	45.9	85.9
47	43.7	0.8	40.8#





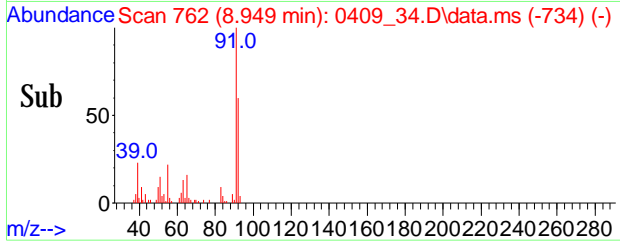
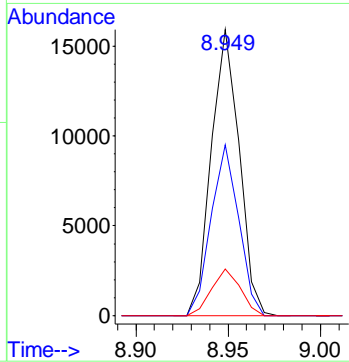
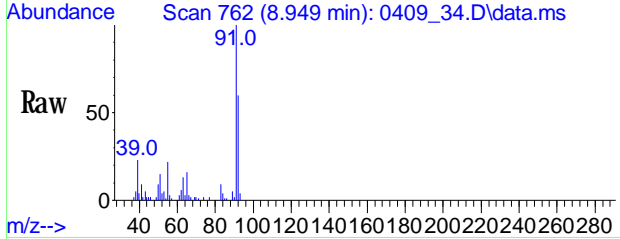
#39
 Trichloroethene
 Conc: 8S 9.888 ppby
 RT: 8.111 min Scan# 657
 Delta R.T. -0.000 min
 Lab File: 0409_34.D
 Acq: 10 Apr 2019 03:18 am

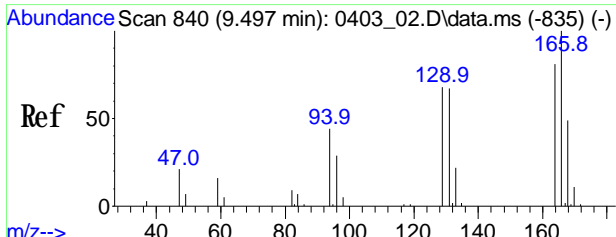
Tgt Ion	Ratio	Resp	Lower	Upper
130	100	134125		
132	98.3	78.0		117.0
95	108.7	73.0		109.4



#48
 Toluene
 Conc: 8S 0.565 ppby
 RT: 8.949 min Scan# 762
 Delta R.T. 0.000 min
 Lab File: 0409_34.D
 Acq: 10 Apr 2019 03:18 am

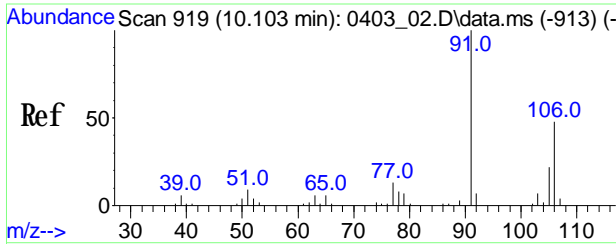
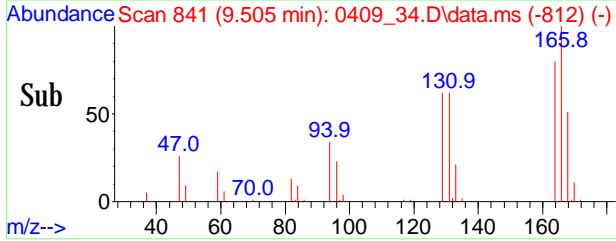
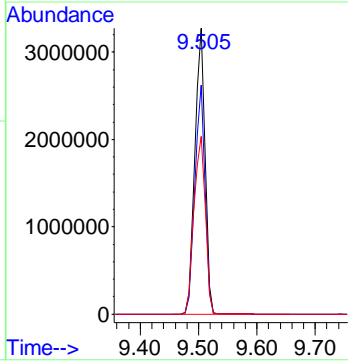
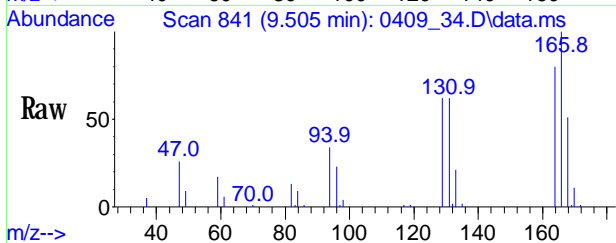
Tgt Ion	Ratio	Resp	Lower	Upper
91	100	16750		
92	59.4	47.7		71.5
65	16.8	9.3		13.9#





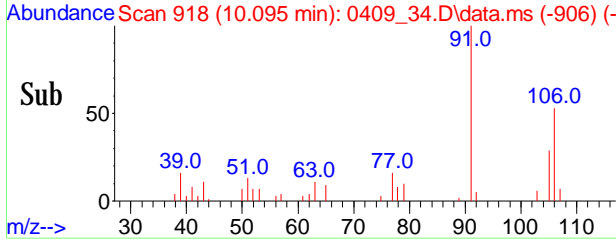
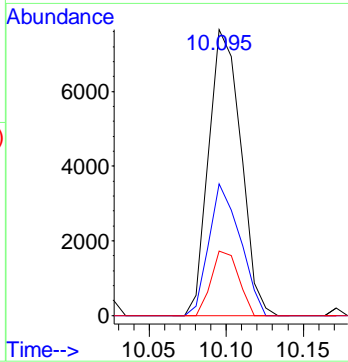
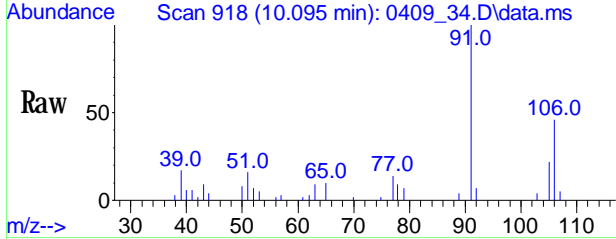
#52
 Tetrachloroethene
 Conc: 8S 301.642 ppby
 RT: 9.505 min Scan# 841
 Delta R.T. 0.007 min
 Lab File: 0409_34.D
 Acq: 10 Apr 2019 03:18 am

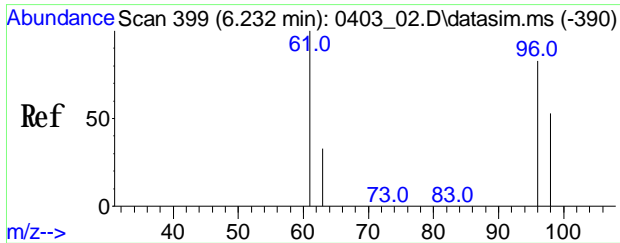
Tgt Ion	Ratio	Resp	Lower	Upper
166	100	4327360		
164	79.7	62.2	93.2	
129	69.4	54.9	82.3	



#57
 m p-Xylene
 Conc: 8S 0.351 ppby
 RT: 10.095 min Scan# 918
 Delta R.T. -0.007 min
 Lab File: 0409_34.D
 Acq: 10 Apr 2019 03:18 am

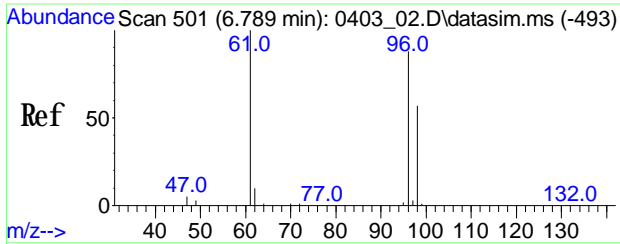
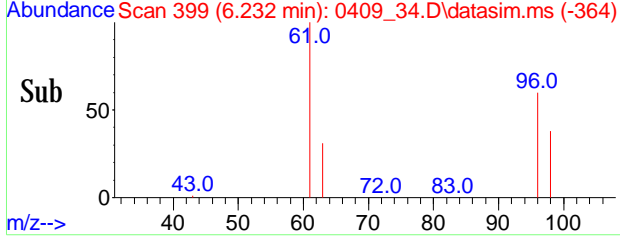
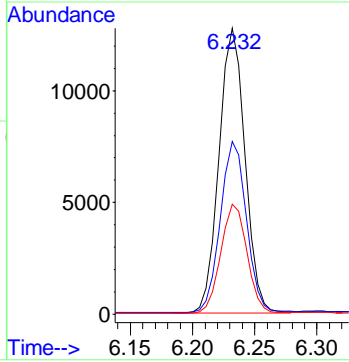
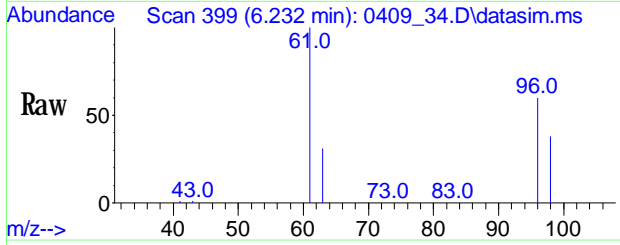
Tgt Ion	Ratio	Resp	Lower	Upper
91	100	11102		
106	44.8	40.9	61.3	
105	19.0	17.8	26.8	





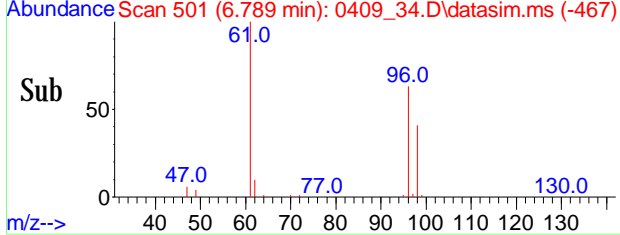
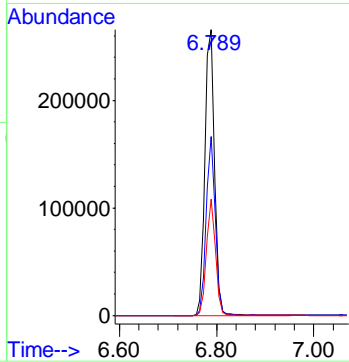
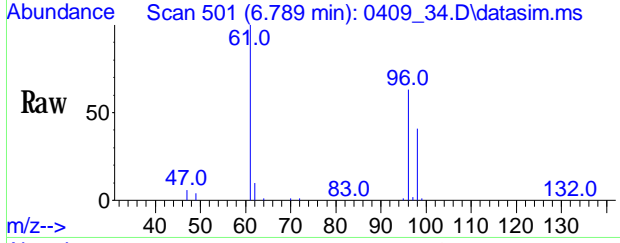
#90
 Trans-1,2-Dichloroethene (sim)
 Conc: 8S 0.751 ppbv
 RT: 6.232 min Scan# 399
 Delta R.T. -0.005 min
 Lab File: 0409_34.D
 Acq: 10 Apr 2019 03:18 am

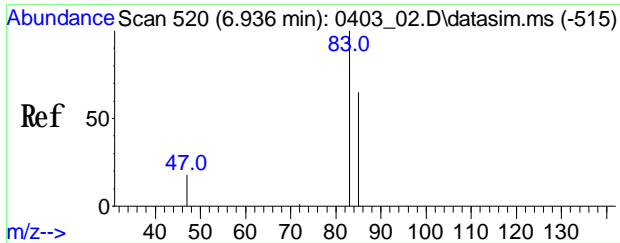
Tgt Ion	Ratio	Resp	Upper
61	100	18438	
96	60.5	64.6	97.0#
98	38.7	41.7	62.5#



#92
 Cis-1,2-Dichloroethene (sim)
 Conc: 8S 15.551 ppbv
 RT: 6.789 min Scan# 501
 Delta R.T. 0.000 min
 Lab File: 0409_34.D
 Acq: 10 Apr 2019 03:18 am

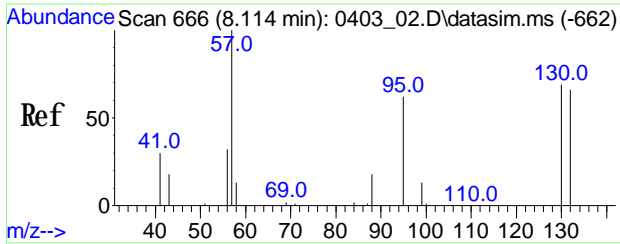
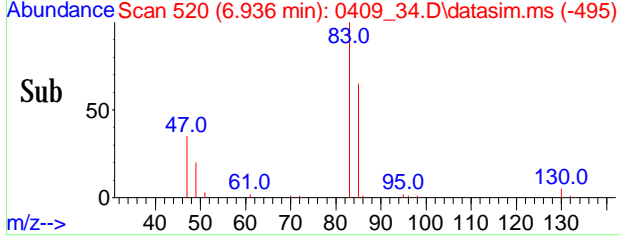
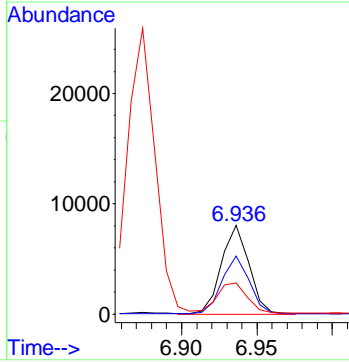
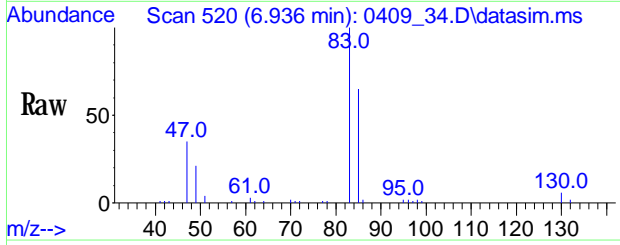
Tgt Ion	Ratio	Resp	Upper
61	100	359688	
96	57.1	69.7	104.5#
98	38.3	45.3	67.9#





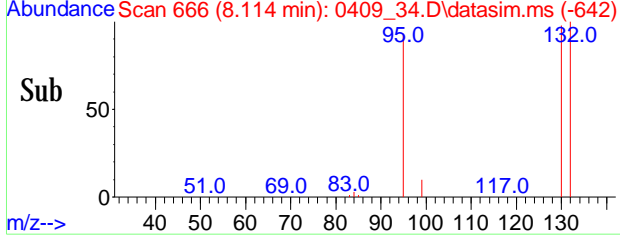
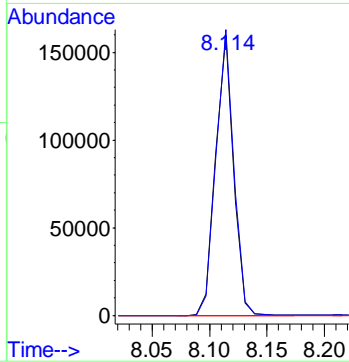
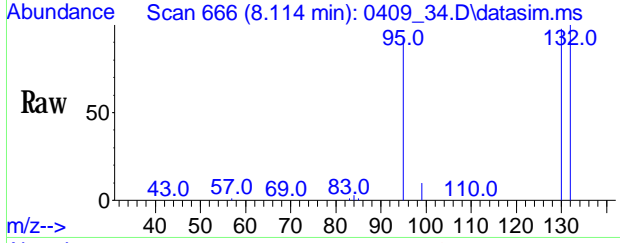
#93
 Chloroform(sim)
 Conc: 8S 0.280 ppbv
 RT: 6.933 min Scan# 520
 Delta R.T. -0.008 min
 Lab File: 0409_34.D
 Acq: 10 Apr 2019 03:18 am

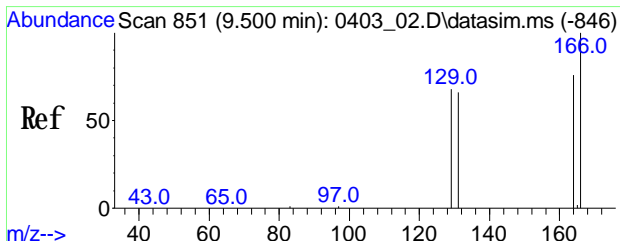
Tgt Ion	Ratio	Resp	Lower	Upper
83	100	8139		
85	68.3	52.7		79.1
47	43.7	16.6		25.0#



#97
 Trichloroethene(sim)
 Conc: 8S 8.939 ppbv
 RT: 8.111 min Scan# 666
 Delta R.T. 0.000 min
 Lab File: 0409_34.D
 Acq: 10 Apr 2019 03:18 am

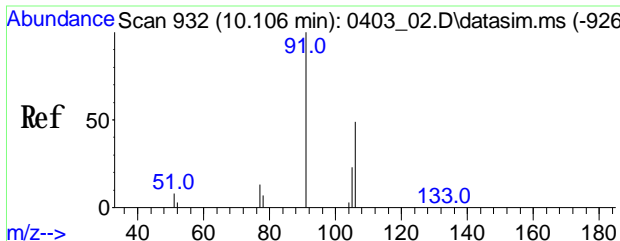
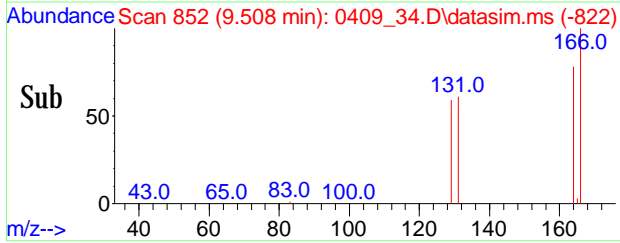
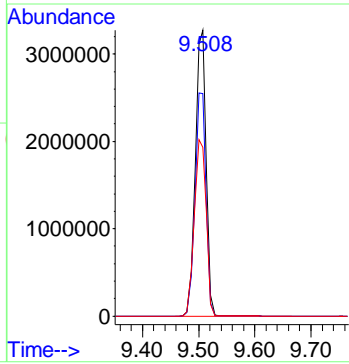
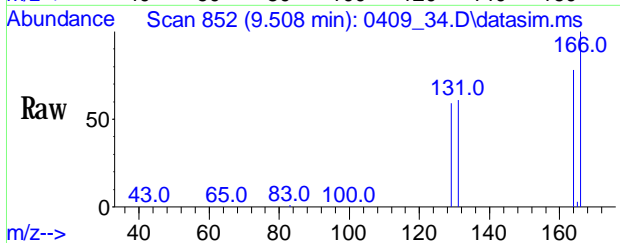
Tgt Ion	Ratio	Resp	Lower	Upper
130	100	134125		
132	98.3	78.0		117.0
97	68.8	47.2		70.8





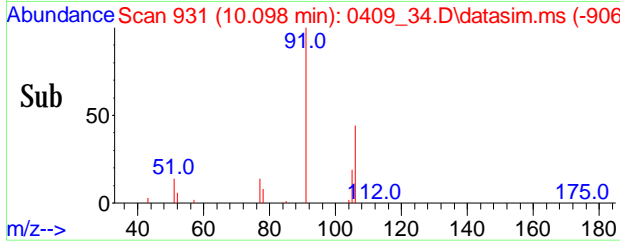
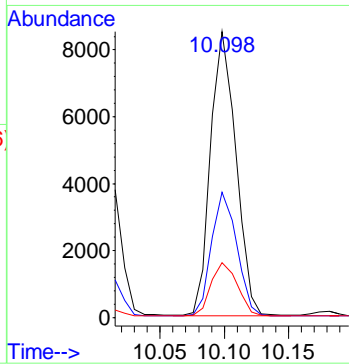
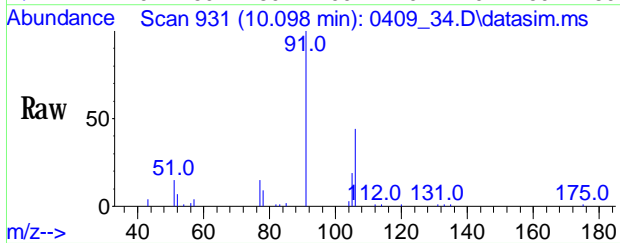
#103
 Tetrachloroethene(sim)
 Conc: 8S 264.367 ppbv
 RT: 9.505 min Scan# 852
 Delta R.T. 0.007 min
 Lab File: 0409_34.D
 Acq: 10 Apr 2019 03:18 am

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	4324814		
164	79.7	57.7	97.7	
129	69.4	48.6	88.6	



#106
 m,p-Xylene(sim)
 Conc: 8S 0.359 ppbv
 RT: 10.098 min Scan# 931
 Delta R.T. -0.007 min
 Lab File: 0409_34.D
 Acq: 10 Apr 2019 03:18 am

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	11680		
106	43.5	44.3	54.1#	
105	19.5	17.7	26.5	



1
AIR ANALYSIS DATA SHEET

CLIENT ID

SS-DUP 75X

Client:	WALDENE	Lab:	Phoenix Env. Labs
SDG No.:	GCC90508	Lab Sample ID:	CC90512 75X
Canister:	215	Lab File ID:	0409_49.D
Instrument:	CHEM20	Column:	RTX-1 60M
		Date Received:	04/08/19
Purge Volume	200	(cc)	
		Date Analyzed:	04/10/19
Matrix:	AIR	Dilution Factor:	75

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
67-64-1	Acetone	31.6	U	31.6	31.6	
156-59-2	Cis-1,2-Dichloroethene	65.7	X	3.79	3.79	
79-01-6	Trichloroethene	40.7	X	2.79	2.79	
108-88-3	Toluene	19.9	U	19.9	19.9	
127-18-4	Tetrachloroethene	1940	D	2.77	2.77	r
156-60-5	Trans-1,2-Dichloroethene(sim)	18.9	U	18.9	18.9	
67-66-3	Chloroform(sim)	15.4	U	15.4	15.4	
179601-23-1	m,p-Xylene(sim)	17.3	U	17.3	17.3	

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.

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2019\CHEM20\04APR\09\
 Data File : 0409_49.D
 Acq On : 10 Apr 2019 01:20 pm
 Operator : CORTEX\ms
 Client ID : SS-DUP 75X
 Lab ID : CC90512 75X
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 10 16:00:27 2019
 Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_0409.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Wed Apr 10 09:42:38 2019
 Response via : Initial Calibration

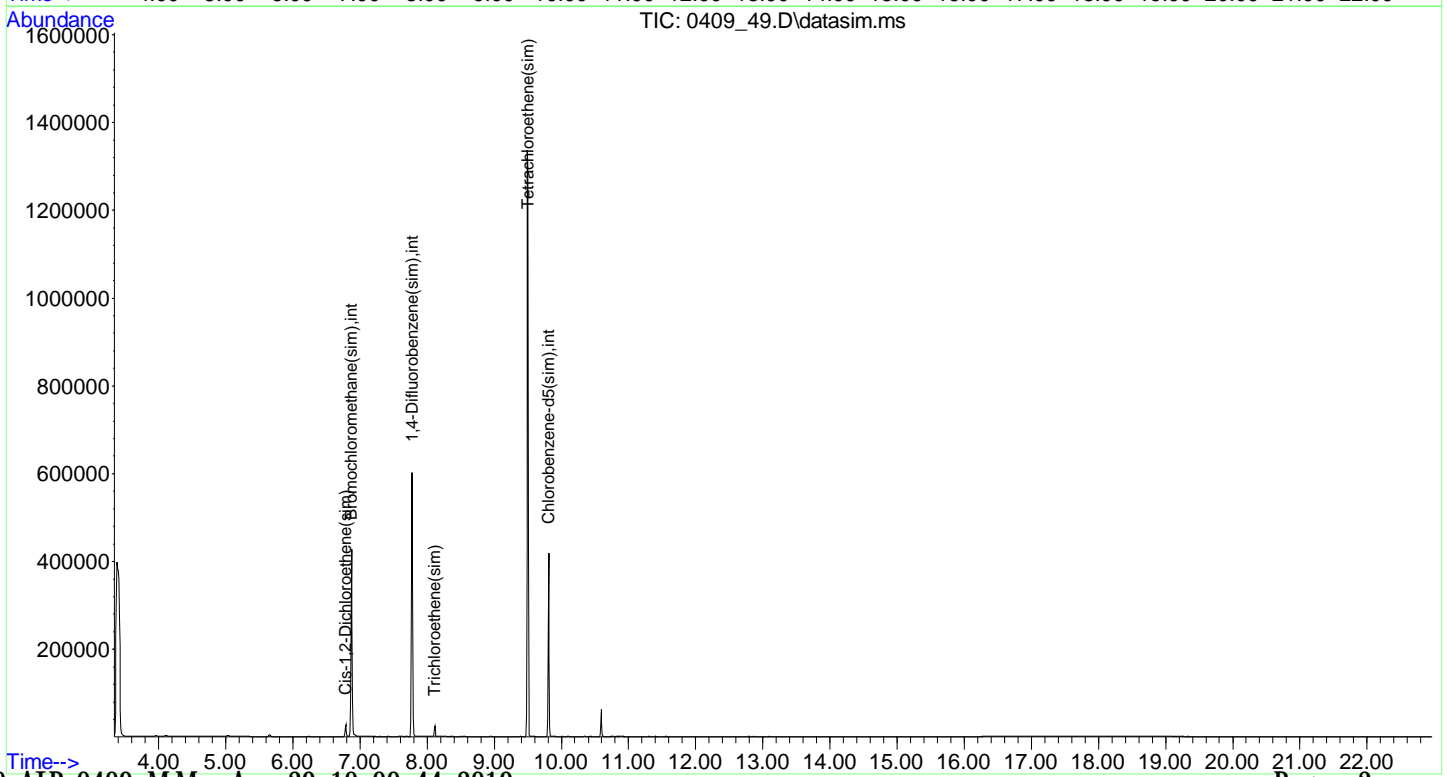
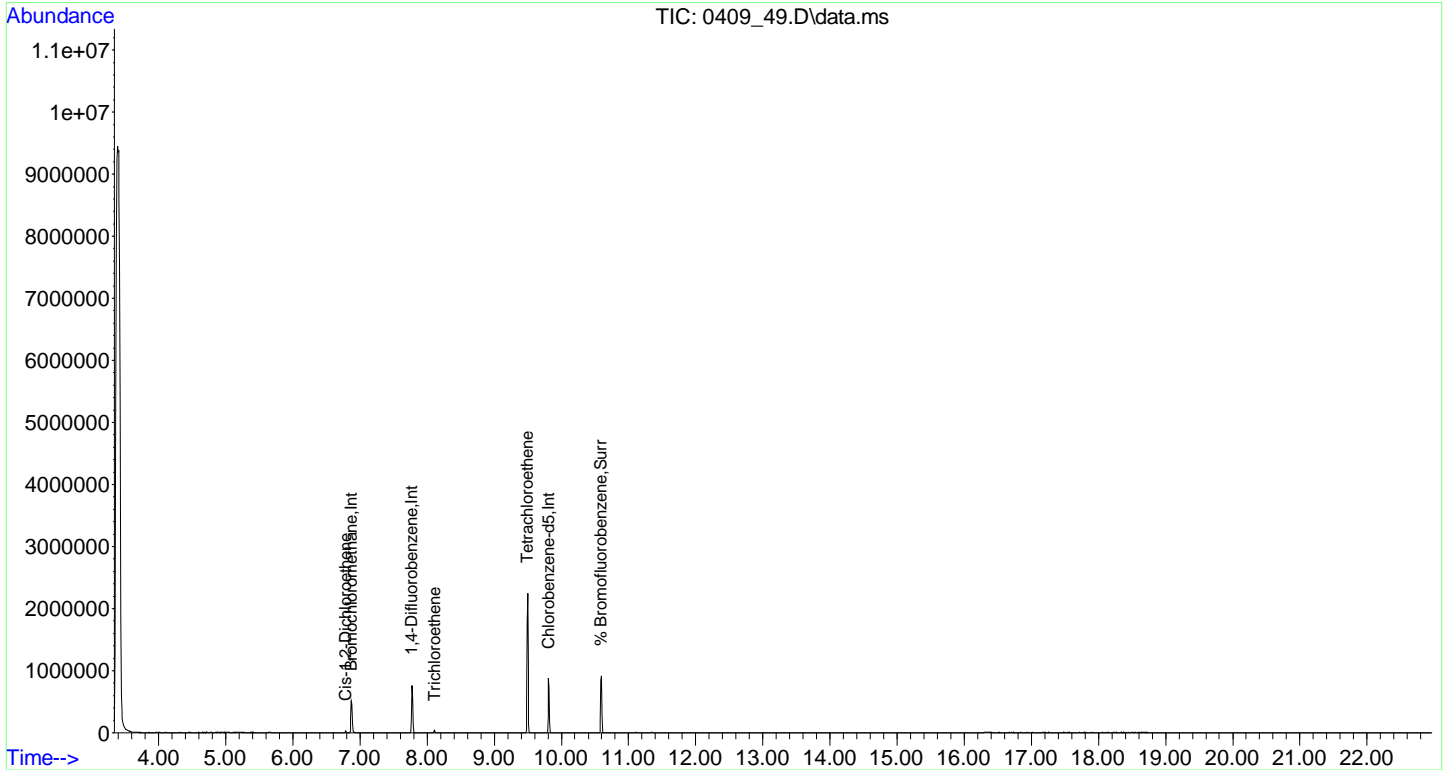
Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
Internal Standards						
1) Bromchloromethane	6.871	130	89869	10.000	ng	0.00
36) 1,4-Difluorobenzene	7.772	114	306888	10.000	ng	0.00
53) Chlorobenzene-d5	9.807	82	155615	10.000	ng	# 0.00
80) Bromchloromethane(sim)	6.874	130	127781	10.000	ng	# 0.00
94) 1,4-Difluorobenzene(sim)	7.775	114	355995	10.000	ng	0.00
104) Chlorobenzene-d5(sim)	9.810	82	156711	10.000	ng	# 0.00
System Monitoring Compounds						
62) % Bromfluorobenzene	10.596	95	204535	10.026	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	100.30%
Target Compounds						
26) Cis-1,2-Dichloroethene	6.786	61	12926	0.876	ppbv#	71
39) Trichloroethene	8.111	130	6246	0.542	ppbv#	87
52) Tetrachloroethene	9.497	166	315877	25.921	ppbv#	87
92) Cis-1,2-Dichloroethene...	6.789	61	15800	0.819	ppbv#	72
97) Trichloroethene(sim)	8.111	130	6246	0.487	ppbv#	88
103) Tetrachloroethene(sim)	9.497	166	315877	22.590	ppbv#	87

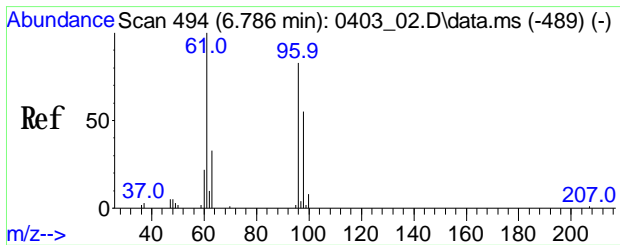
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2019\CHEM20\04APR\09\
Data File : 0409_49.D
Acq On : 10 Apr 2019 01:20 pm
Operator : CORTEX\ns
Client ID : SS-DUP 75X
Lab ID : CC90512 75X
ALS Vial : 1 Sample Multiplier: 1

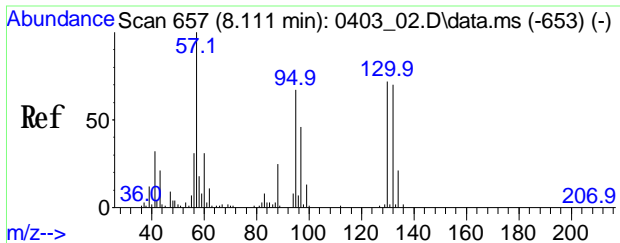
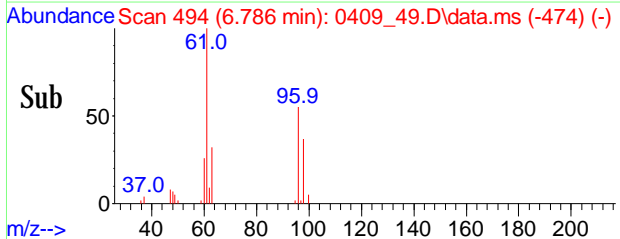
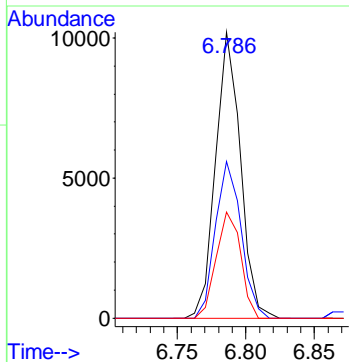
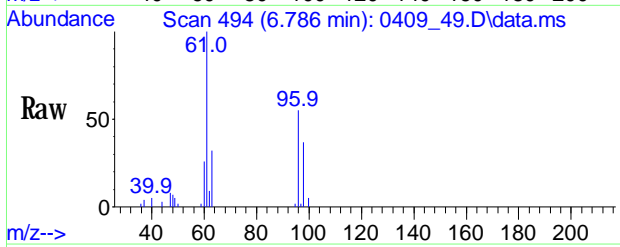
Quant Time: Apr 10 16:00:27 2019
Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_0409.M
Quant Title : VOA Standards for 5 point calibration
Last Update : Wed Apr 10 09:42:38 2019
Response via : Initial Calibration





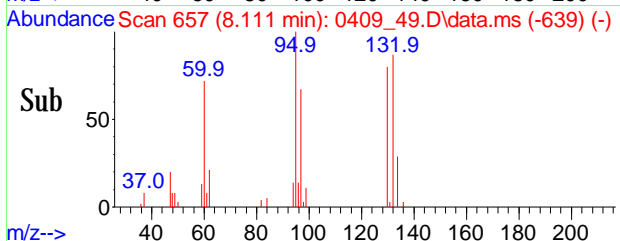
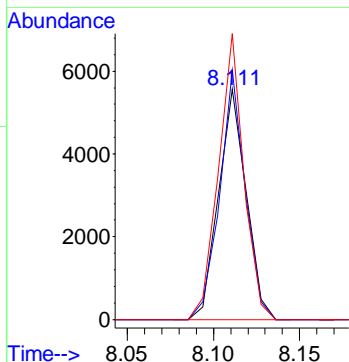
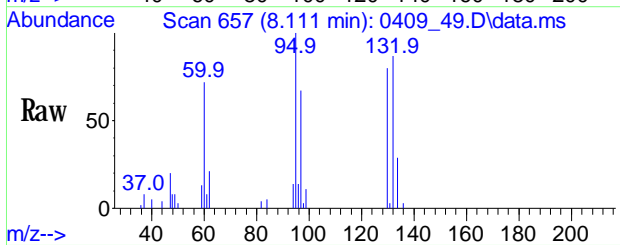
#26
 Cis-1,2-Dichloroethene
 Conc: 8S 0.876 ppby
 RT: 6.786 min Scan# 494
 Delta R.T. -0.008 min
 Lab File: 0409_49.D
 Acq: 10 Apr 2019 01:20 pm

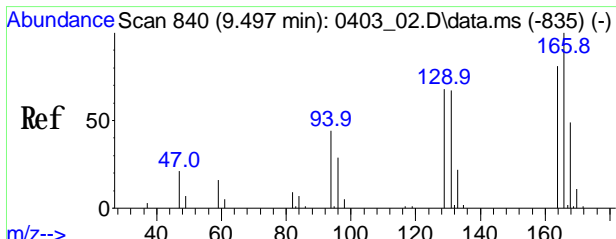
Tgt Ion	Ratio	Resp	Lower	Upper
61	100			
96	56.6	67.8		101.8#
98	36.6	43.8		65.6#



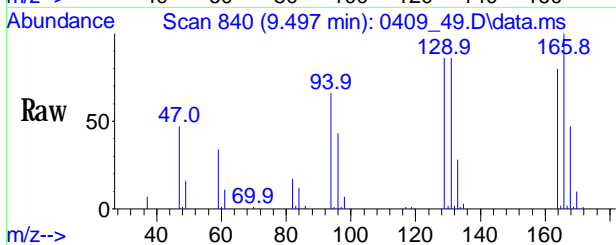
#39
 Trichloroethene
 Conc: 8S 0.542 ppby
 RT: 8.111 min Scan# 657
 Delta R.T. -0.000 min
 Lab File: 0409_49.D
 Acq: 10 Apr 2019 01:20 pm

Tgt Ion	Ratio	Resp	Lower	Upper
130	100			6246
132	99.9	78.0		117.0
95	113.7	73.0		109.4#

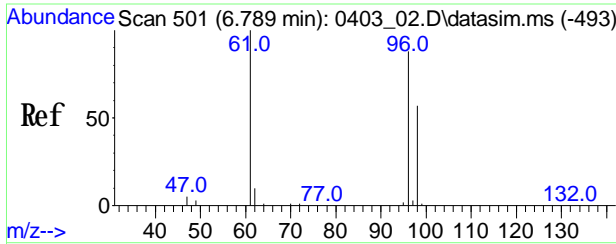
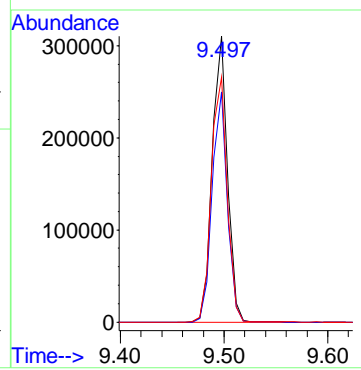
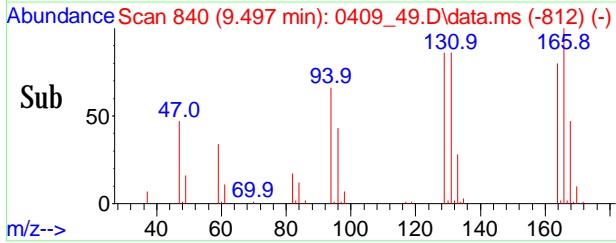




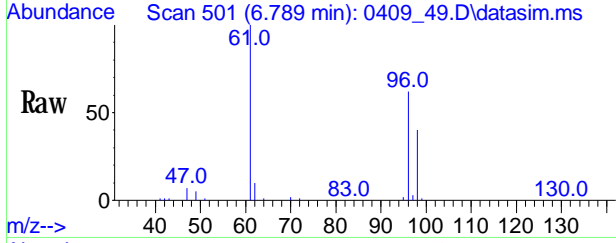
#52
Tetrachloroethene
 Conc: 8S 25.921 ppbv
 RT: 9.497 min Scan# 840
 Delta R.T. 0.000 min
 Lab File: 0409_49.D
 Acq: 10 Apr 2019 01:20 pm



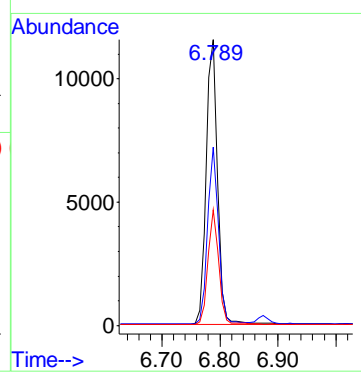
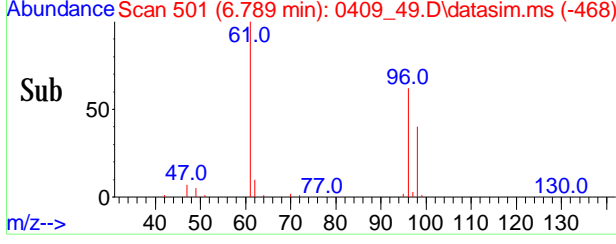
Tgt Ion	Ratio	Resp	Upper
166	100	315877	Lower
164	80.0	62.2	93.2
129	89.4	54.9	82.3#

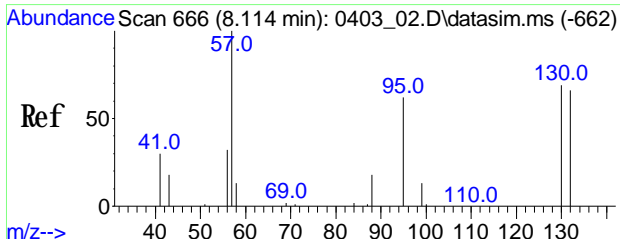


#92
Cis-1,2-Dichloroethene(sim)
 Conc: 8S 0.819 ppbv
 RT: 6.789 min Scan# 501
 Delta R.T. -0.000 min
 Lab File: 0409_49.D
 Acq: 10 Apr 2019 01:20 pm

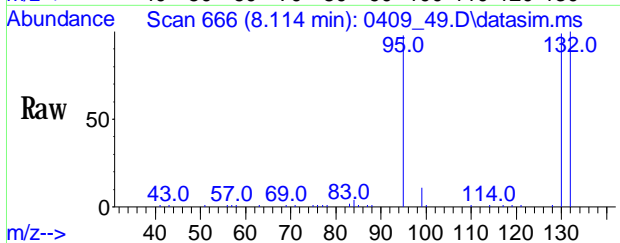


Tgt Ion	Ratio	Resp	Upper
61	100	15800	Lower
96	59.4	69.7	104.5#
98	38.0	45.3	67.9#

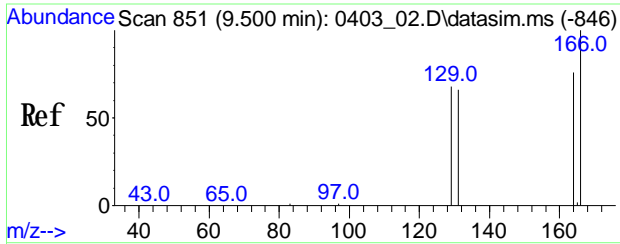
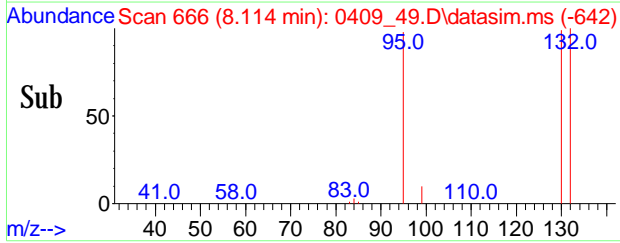
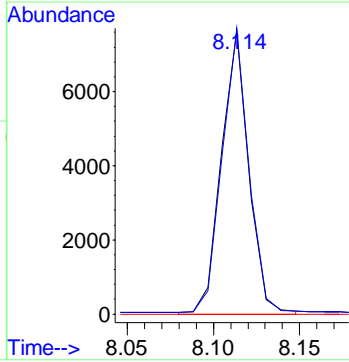




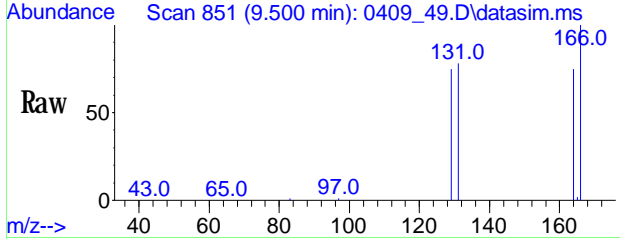
#97
 Trichloroethene(sim)
 Conc: 8S 0.487 ppbv
 RT: 8.111 min Scan# 666
 Delta R.T. -0.000 min
 Lab File: 0409_49.D
 Acq: 10 Apr 2019 01:20 pm



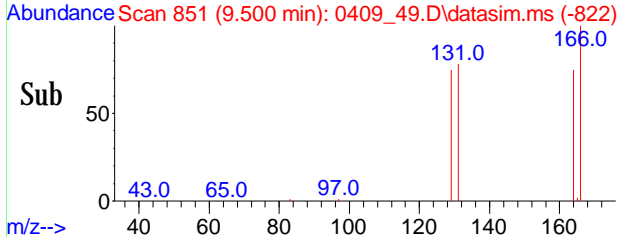
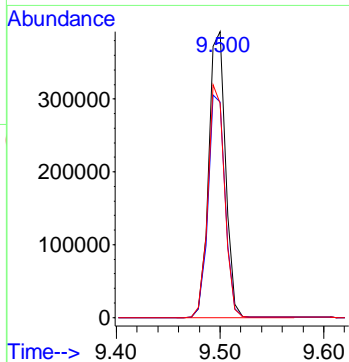
Tgt Ion: 130 Resp: 6246
 Ion Ratio Lower Upper
 130 100
 132 99.9 78.0 117.0
 97 79.0 47.2 70.8#



#103
 Tetrachloroethene(sim)
 Conc: 8S 22.590 ppbv
 RT: 9.497 min Scan# 851
 Delta R.T. 0.000 min
 Lab File: 0409_49.D
 Acq: 10 Apr 2019 01:20 pm



Tgt Ion: 166 Resp: 315877
 Ion Ratio Lower Upper
 166 100
 164 80.0 57.7 97.7
 129 89.4 48.6 88.6#



1
AIR ANALYSIS DATA SHEET

CLIENT ID

IA-7

Client:	WALDENE	Lab:	Phoenix Env. Labs
SDG No.:	GCC90508	Lab Sample ID:	CC90513
Canister:	23326	Lab File ID:	0409_22.D
Instrument:	CHEM20	Column:	RTX-1 60M
Date Received:	04/08/19		
Purge Volume	200	(cc)	04/09/19
Date Analyzed:	04/09/19		
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	0.481		0.202	0.202	r
74-87-3	Chloromethane	0.554		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	8.06	S	0.531	0.531	r
67-64-1	Acetone	6.49	S	0.421	0.421	r
75-69-4	Trichlorofluoromethane	0.251		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	0.864	U	0.864	0.864	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	0.477	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	0.369		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)	0.302		0.244	0.244	r
10061-02-6	trans-1,3-Dichloropropene	0.221	U	0.221	0.221	r
108-88-3	Toluene	1.87		0.266	0.266	r
591-78-6	2-Hexanone(MBK)	0.244	U	0.244	0.244	r
630-20-6	1,1,1,2-Tetrachloroethane	0.146	U	0.146	0.146	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
179601-23-1	m,p-Xylene	0.847		0.230	0.230	r
100-42-5	Styrene	0.235	U	0.235	0.235	r
95-47-6	o-Xylene	0.245		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	0.216		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)	0.078	U	0.078	0.078	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

IA-7

Client: WALDENE Lab: Phoenix Env. Labs

SDG No.: GCC90508 Lab Sample ID: CC90513

Canister: 23326 Lab File ID: 0409_22.D

Instrument: CHEM20 Column: RTX-1 60M Date Received: 04/08/19

Purge Volume 200 (cc) Date Analyzed: 04/09/19

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	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		0.032	0.032	r
75-35-4	1,1-Dichloroethene(sim)	0.051	U	0.051	0.051	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)	0.051	U	0.051	0.051	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)	0.037	U	0.037	0.037	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)	0.085		0.037	0.037	r
75-25-2	Bromoform(sim)	0.097	U	0.097	0.097	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

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2019\CHEM20\04APR\09\
 Data File : 0409_22.D
 Acq On : 09 Apr 2019 07:18 pm
 Operator : CORTEX\ms
 Client ID : IA-7
 Lab ID : CC90513
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 10 10:24:55 2019
 Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_0409.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Wed Apr 10 09:07:16 2019
 Response via : Initial Calibration

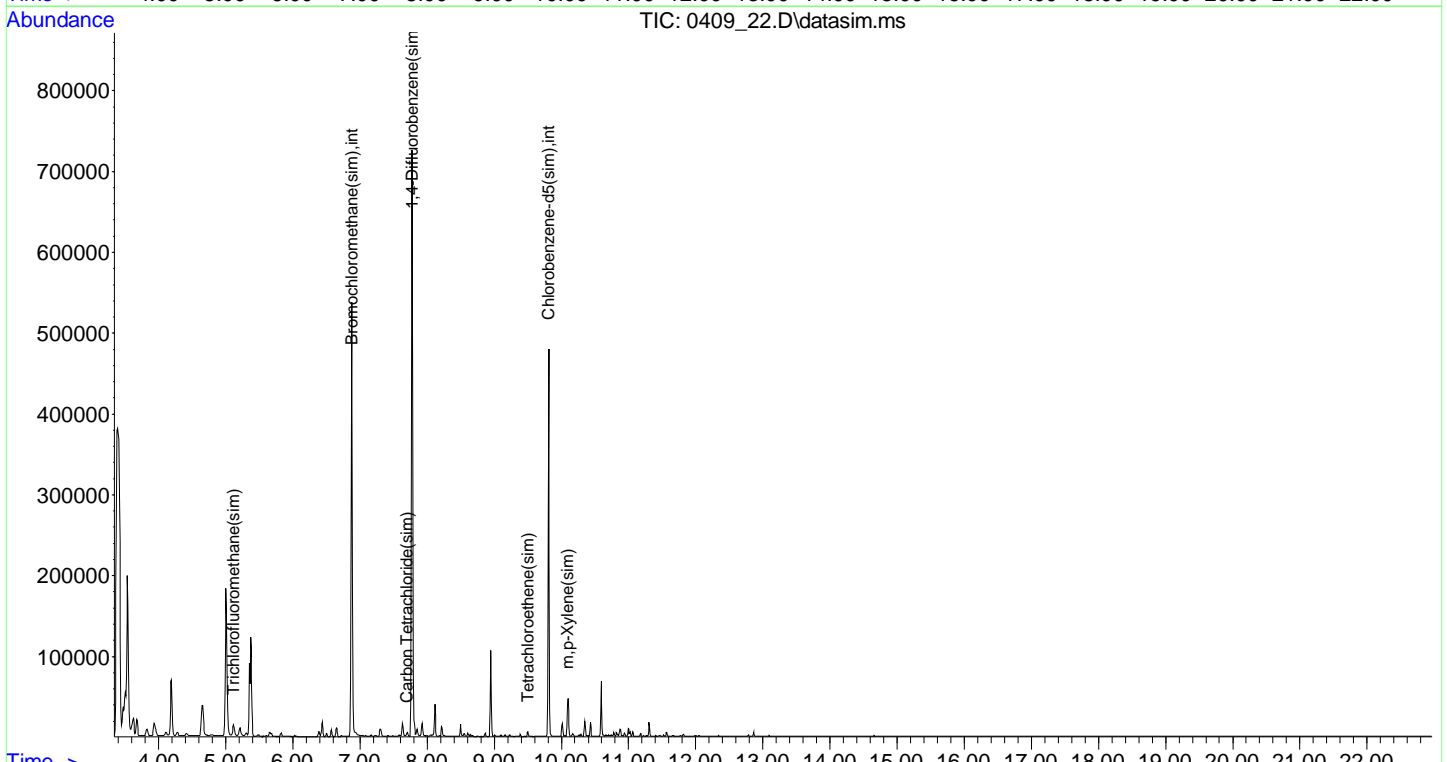
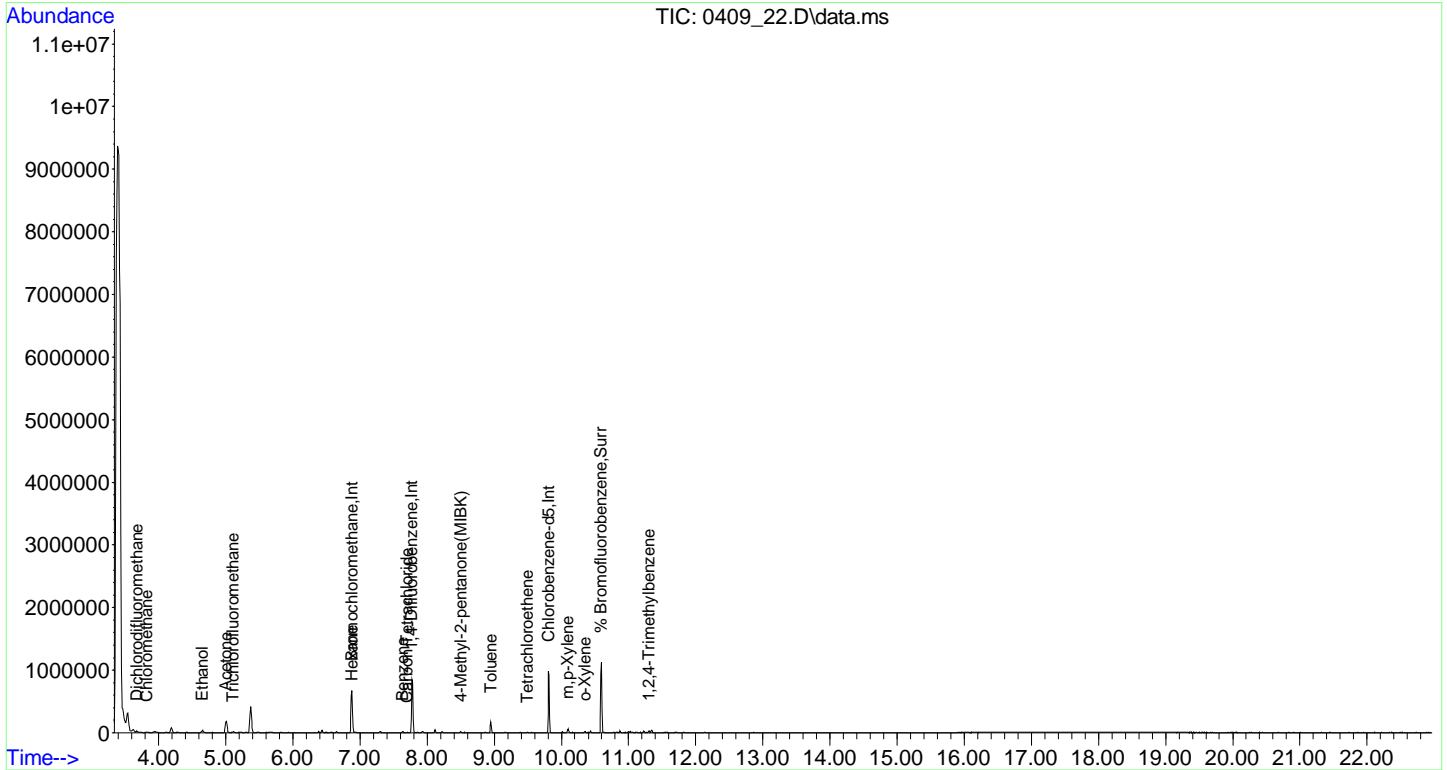
Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
Internal Standards						
1) Bromchloromethane	6.879	130	126580	10.000	ng	0.00
36) 1,4-Difluorobenzene	7.772	114	403050	10.000	ng	0.00
53) Chlorobenzene-d5	9.807	82	189246	10.000	ng	# 0.00
80) Bromchloromethane(sim)	6.882	130	174436	10.000	ng	# 0.00
94) 1,4-Difluorobenzene(sim)	7.775	114	463928	10.000	ng	0.00
104) Chlorobenzene-d5(sim)	9.810	82	194291	10.000	ng	# 0.00
System Monitoring Compounds						
62) % Bromfluorobenzene	10.596	95	254348	10.252	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	102.50%	
Target Compounds						
						Qvalue
3) Dichlorodifluoromethane	3.679	85	15597	0.480	ppbv#	96
4) Chloromethane	3.825	50	7514	0.554	ppbv	92
11) Ethanol	4.652	45	43910	8.062	ppbv	95
12) Acetone	5.009	43	183660	6.490	ppbv#	84
13) Trichlorofluoromethane	5.114	101	10671	0.251	ppbv	97
27) Hexane	6.887	57	9755	0.477	ppbv#	80
33) Benzene	7.636	78	10230	0.369	ppbv#	84
34) Carbon Tetrachloride	7.704	117	1967	0.082	ppbv	89
45) 4-Methyl-2-pentanone(M..	8.500	43	8410	0.302	ppbv#	78
48) Toluene	8.948	91	61939	1.874	ppbv#	98
52) Tetrachloroethene	9.497	166	1540	0.096	ppbv#	83
57) m p-Xylene	10.095	91	28976	0.847	ppbv	91
61) o-Xylene	10.353	91	8784	0.245	ppbv	93
68) 1,2,4-Trimethylbenzene	11.309	105	8620m	0.216	ppbv#	82
84) Trichlorofluoromethane...	5.117	101	12681	0.218	ppbv	99
87) Carbon Tetrachloride(sim)	7.704	117	1967	0.087	ppbv	89
103) Tetrachloroethene(sim)	9.497	166	1540	0.085	ppbv	83
106) m p-Xylene(sim)	10.098	91	30547	0.839	ppbv#	92

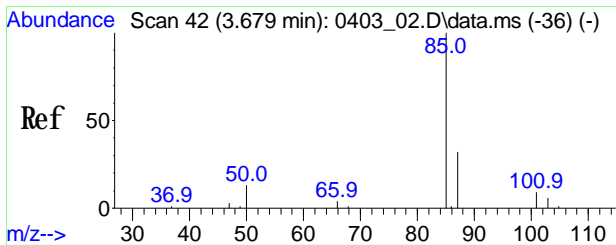
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2019\CHEM20\04APR\09\
Data File : 0409_22.D
Acq On : 09 Apr 2019 07:18 pm
Operator : CORTEX\nms
Client ID : IA-7
Lab ID : CC90513
ALS Vial : 1 Sample Multiplier: 1

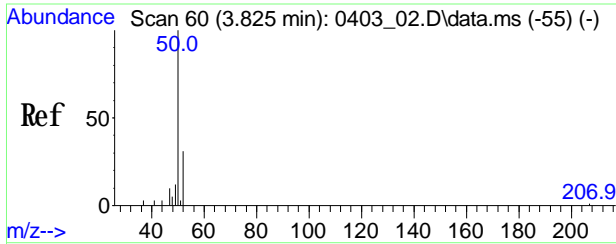
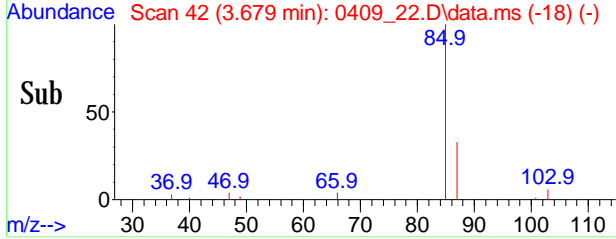
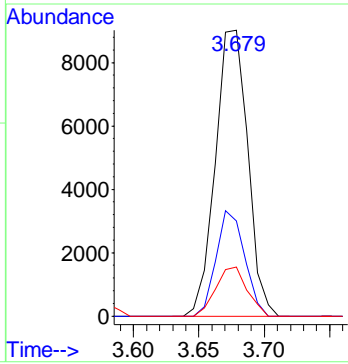
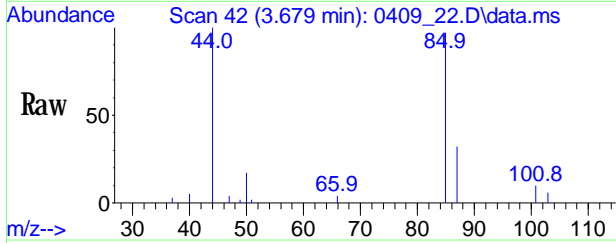
Quant Time: Apr 10 10:24:55 2019
Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_0409.M
Quant Title : VOA Standards for 5 point calibration
Last Update : Wed Apr 10 09:07:16 2019
Response via : Initial Calibration





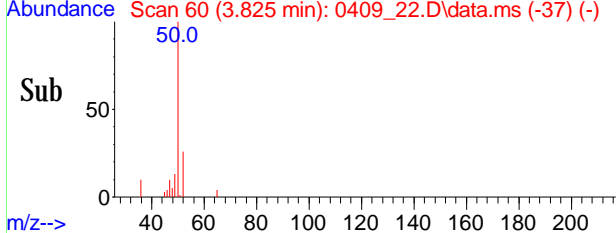
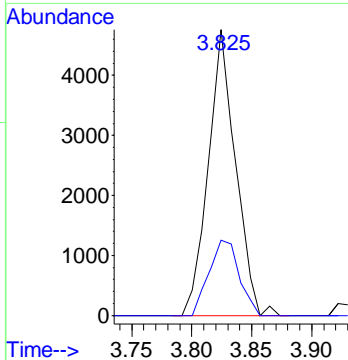
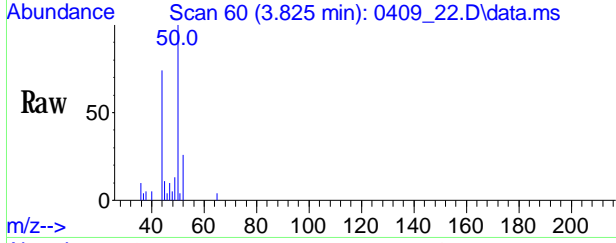
#3
Dichlorodifluoromethane
 Conc: 8S 0.480 ppby
 RT: 3.679 min Scan# 42
 Delta R.T. -0.008 min
 Lab File: 0409_22.D
 Acq: 09 Apr 2019 07:18 pm

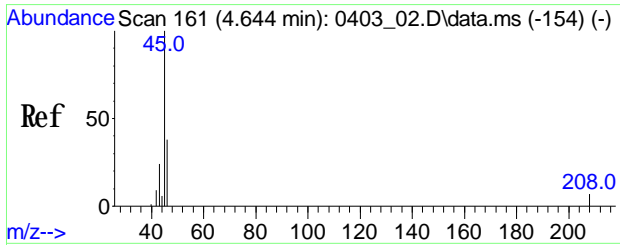
Tgt Ion	Ratio	Resp	Lower	Upper
85	100	15597		
87	32.4	25.6	38.4	
50	16.6	9.4	14.2#	



#4
Chloromethane
 Conc: 8S 0.554 ppby
 RT: 3.825 min Scan# 60
 Delta R.T. -0.016 min
 Lab File: 0409_22.D
 Acq: 09 Apr 2019 07:18 pm

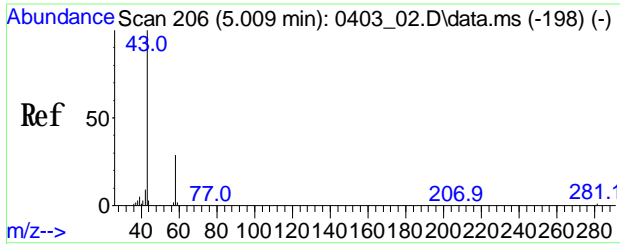
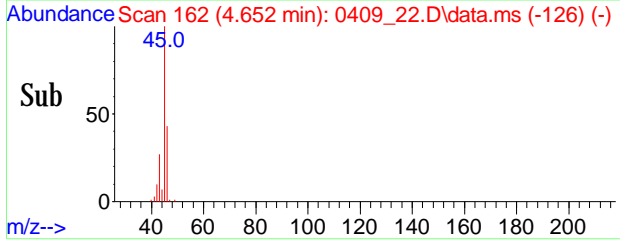
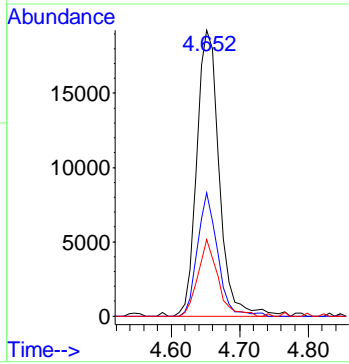
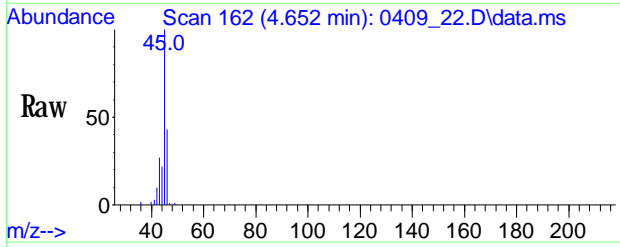
Tgt Ion	Ratio	Resp	Lower	Upper
50	100	7514		
52	29.1	13.6	53.6	





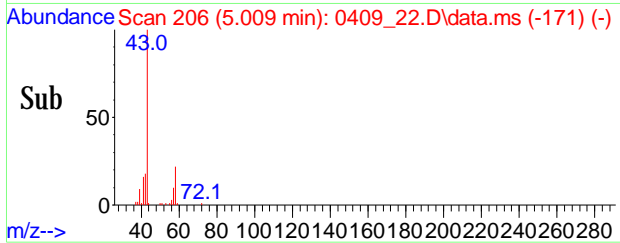
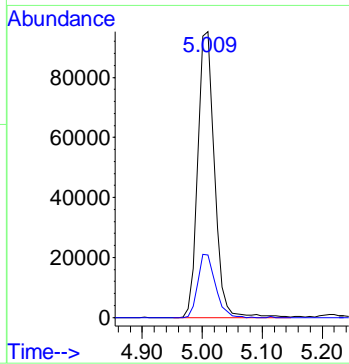
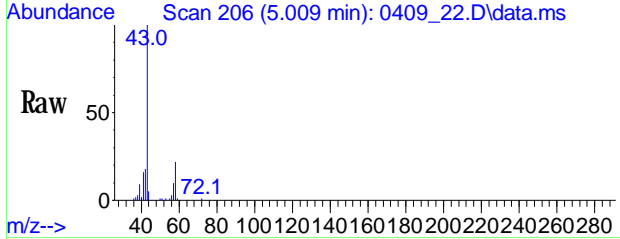
#11
 Ethanol
 Conc: 8S 8.062 ppby
 RT: 4.652 min Scan# 162
 Delta R.T. -0.008 min
 Lab File: 0409_22.D
 Acq: 09 Apr 2019 07:18 pm

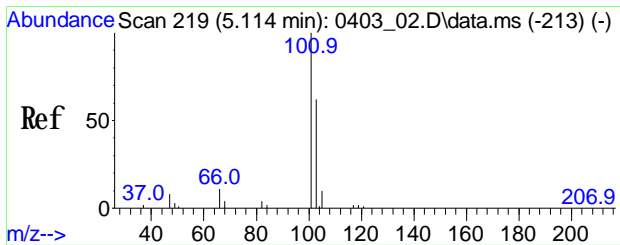
Tgt Ion	Ratio	Resp	Lower	Upper
45	100	43910		
46	38.8	29.9	44.9	
43	23.9	22.7	34.1	



#12
 Acetone
 Conc: 8S 6.490 ppby
 RT: 5.009 min Scan# 206
 Delta R.T. -0.016 min
 Lab File: 0409_22.D
 Acq: 09 Apr 2019 07:18 pm

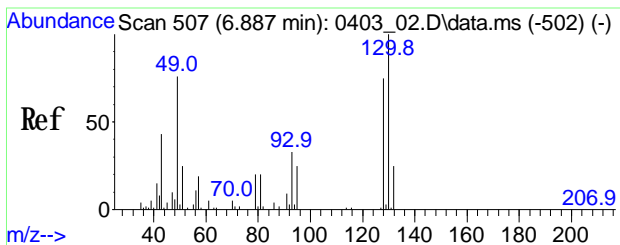
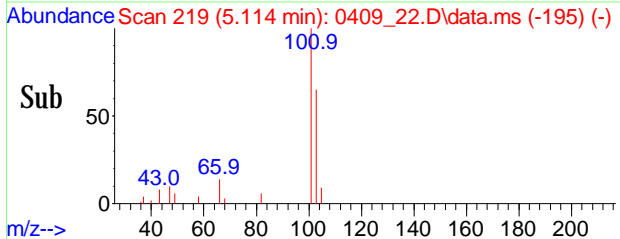
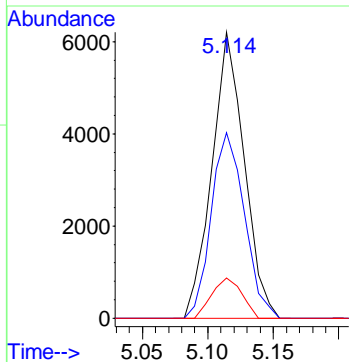
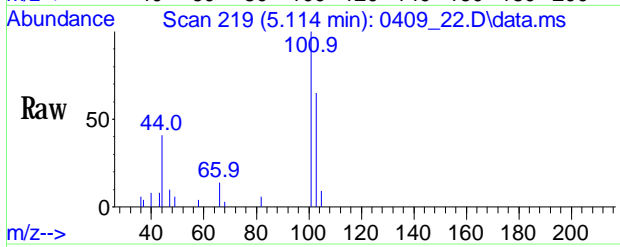
Tgt Ion	Ratio	Resp	Lower	Upper
43	100	183660		
58	23.3	25.9	38.9#	





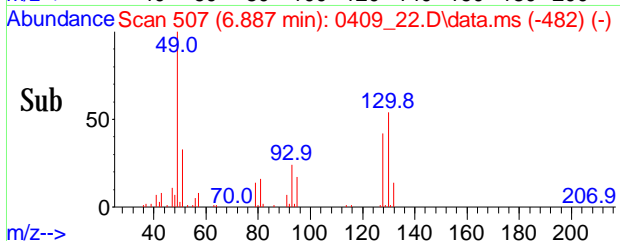
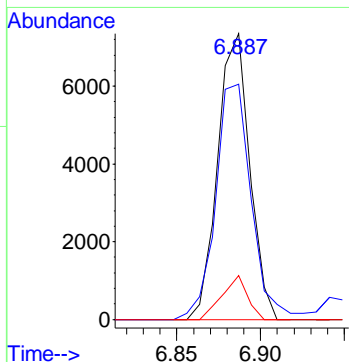
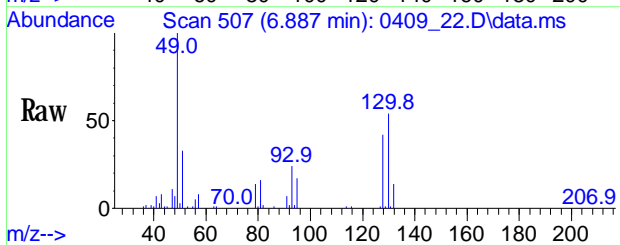
#13
 Trichlorofluoromethane
 Conc: 8S 0.251 ppby
 RT: 5.114 min Scan# 219
 Delta R.T. -0.008 min
 Lab File: 0409_22.D
 Acq: 09 Apr 2019 07:18 pm

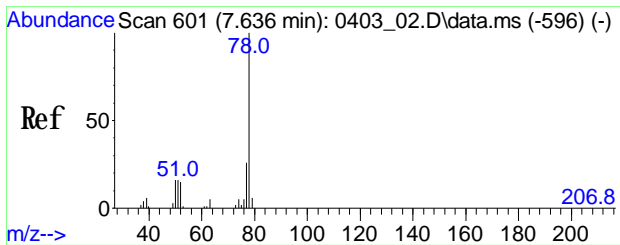
Tgt Ion	Ratio	Resp	Lower	Upper
101	100	10671		
103	66.6	51.6	77.4	
66	13.0	9.4	14.0	



#27
 Hexane
 Conc: 8S 0.477 ppby
 RT: 6.887 min Scan# 507
 Delta R.T. -0.000 min
 Lab File: 0409_22.D
 Acq: 09 Apr 2019 07:18 pm

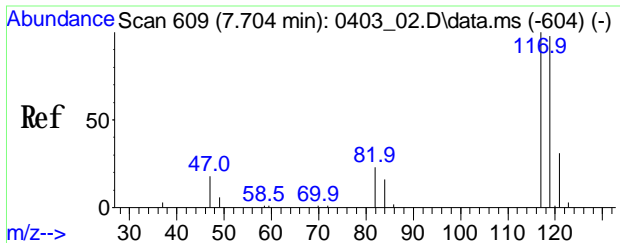
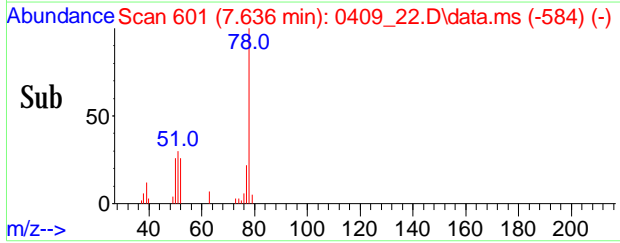
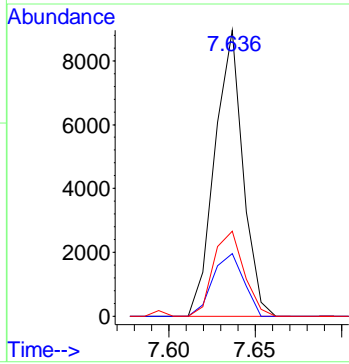
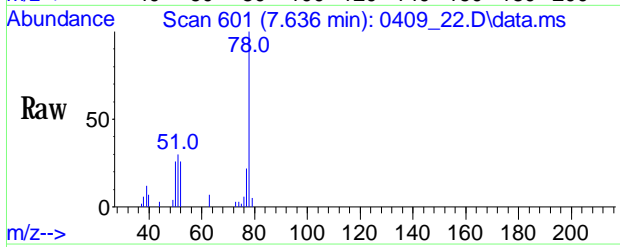
Tgt Ion	Ratio	Resp	Lower	Upper
57	100	9755		
41	91.4	58.9	88.3#	
86	12.1	16.4	24.6#	





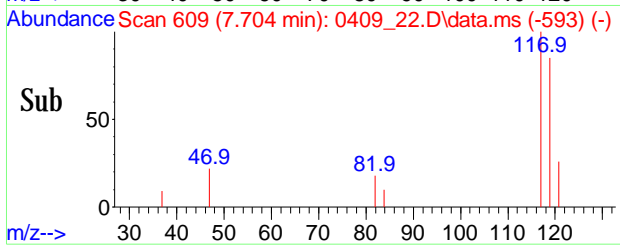
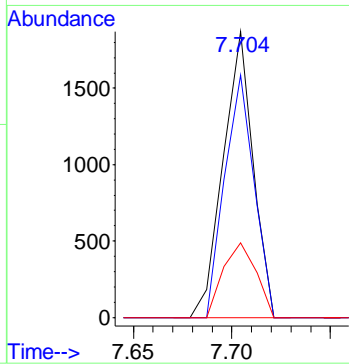
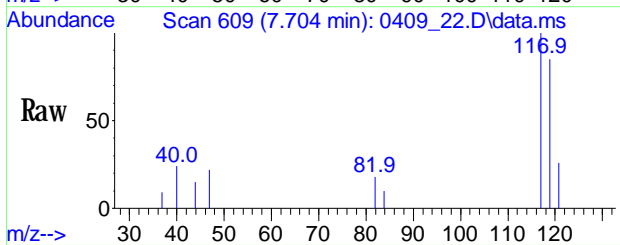
#33
 Benzene
 Conc: 8S 0.369 ppbv
 RT: 7.636 min Scan# 601
 Delta R.T. 0.000 min
 Lab File: 0409_22.D
 Acq: 09 Apr 2019 07:18 pm

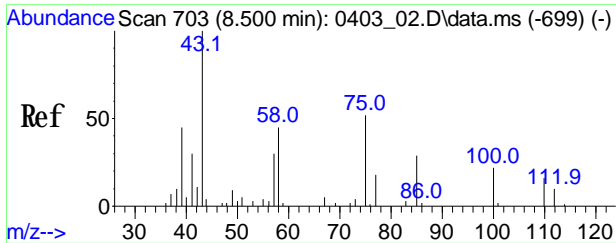
Tgt Ion	Ratio	Resp	Lower	Upper
78	100	10230		
77	23.9	18.6	27.8	
51	32.2	12.9	19.3#	



#34
 Carbon Tetrachloride
 Conc: 8S Below Cal
 RT: 7.704 min Scan# 609
 Delta R.T. 0.000 min
 Lab File: 0409_22.D
 Acq: 09 Apr 2019 07:18 pm

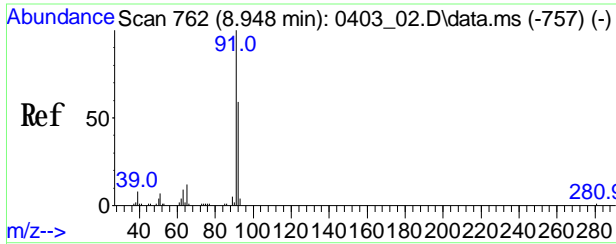
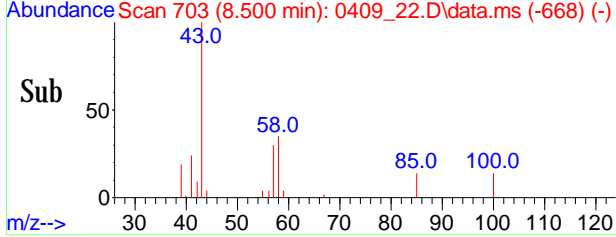
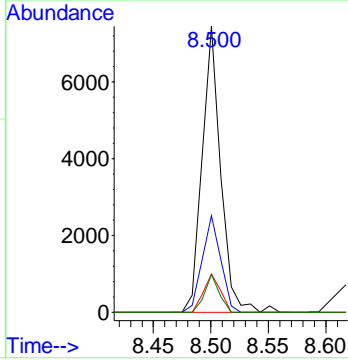
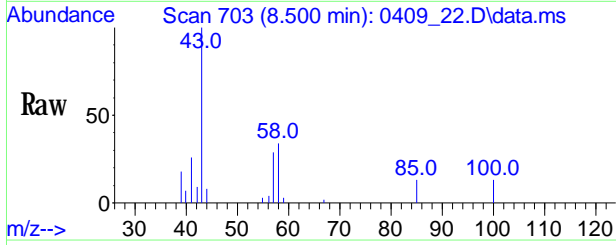
Tgt Ion	Ratio	Resp	Lower	Upper
117	100	1967		
119	83.1	75.8	115.8	
121	28.8	10.7	50.7	





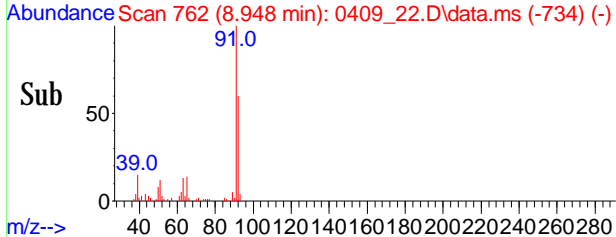
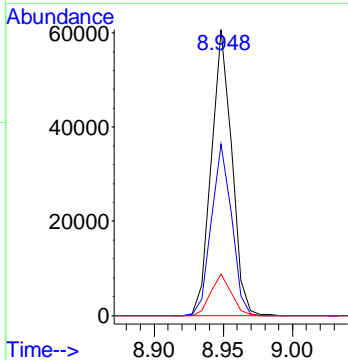
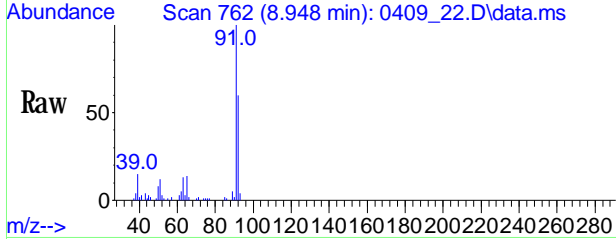
#45
 4-Methyl-2-pentanone (MBK)
 Conc: 85 0.302 ppby
 RT: 8.500 min Scan# 703
 Delta R.T. 0.000 min
 Lab File: 0409_22.D
 Acq: 09 Apr 2019 07:18 pm

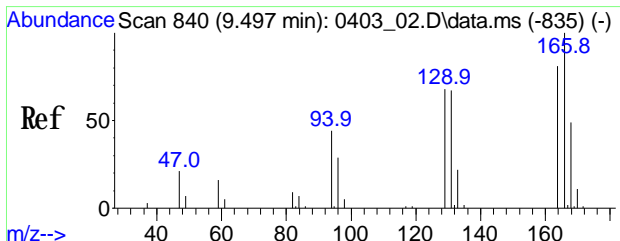
Tgt Ion	Ratio	Resp	Lower	Upper
43	100			
58	33.4	35.5		53.3#
85	12.0	21.6		32.4#
100	10.1	16.5		24.7#



#48
 Toluene
 Conc: 85 1.874 ppby
 RT: 8.948 min Scan# 762
 Delta R.T. 0.000 min
 Lab File: 0409_22.D
 Acq: 09 Apr 2019 07:18 pm

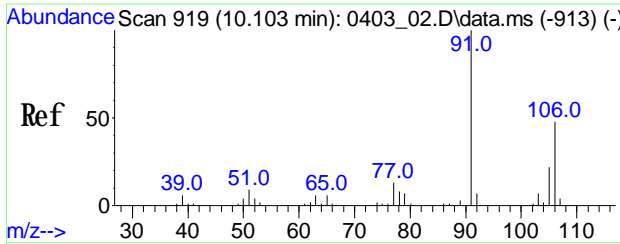
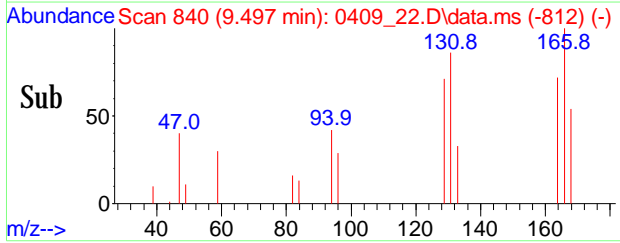
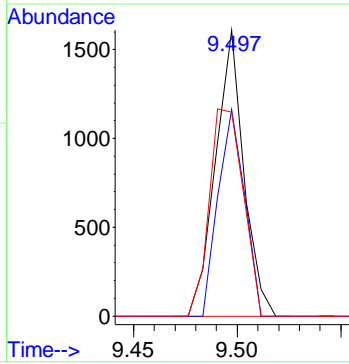
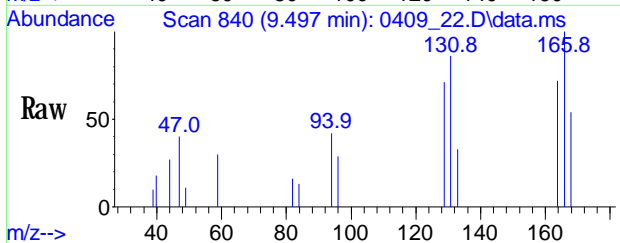
Tgt Ion	Ratio	Resp	Lower	Upper
91	100			
92	59.2	47.7		71.5
65	14.4	9.3		13.9#





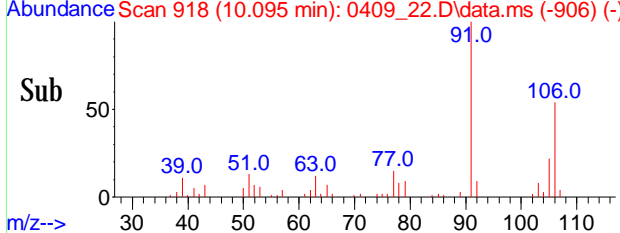
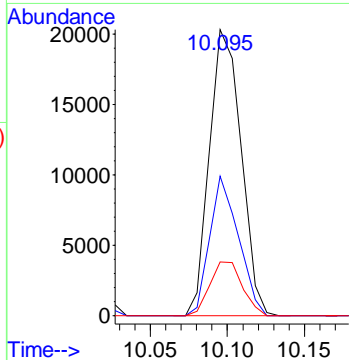
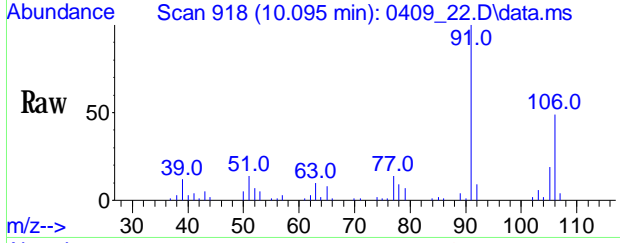
#52
 Tetrachloroethene
 Conc: 8S Below Cal
 RT: 9.497 min Scan# 840
 Delta R.T. 0.000 min
 Lab File: 0409_22.D
 Acq: 09 Apr 2019 07:18 pm

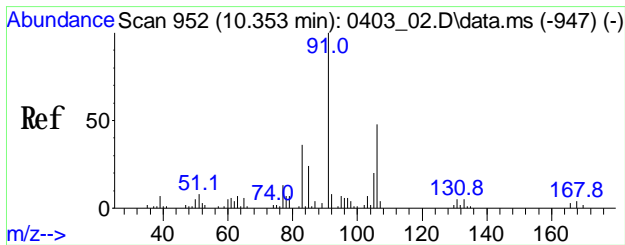
Tgt Ion	Ratio	Resp	Lower	Upper
166	100	1540		
164	67.3	62.2	93.2	
129	86.7	54.9	82.3#	



#57
 m p-Xylene
 Conc: 8S 0.847 ppby
 RT: 10.095 min Scan# 918
 Delta R.T. -0.007 min
 Lab File: 0409_22.D
 Acq: 09 Apr 2019 07:18 pm

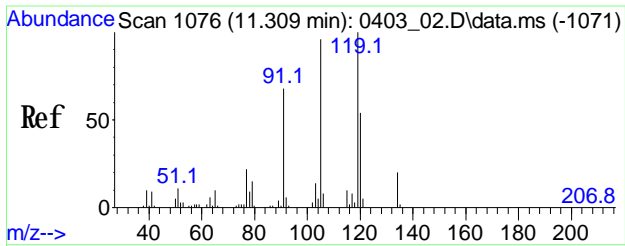
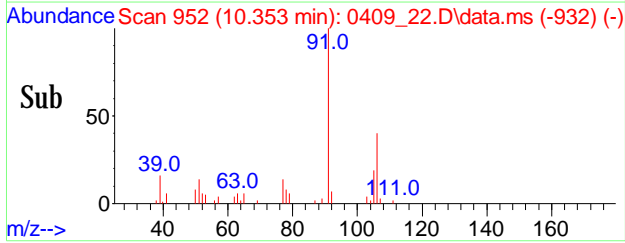
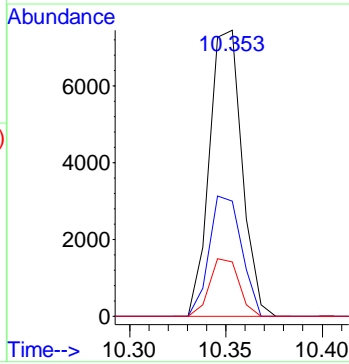
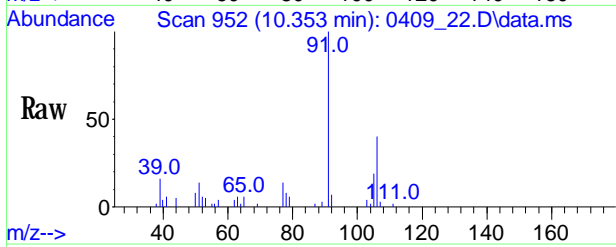
Tgt Ion	Ratio	Resp	Lower	Upper
91	100	28976		
106	44.2	40.9	61.3	
105	19.3	17.8	26.8	





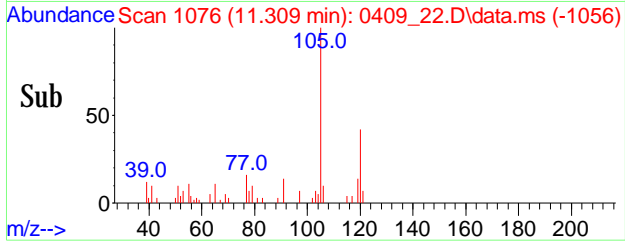
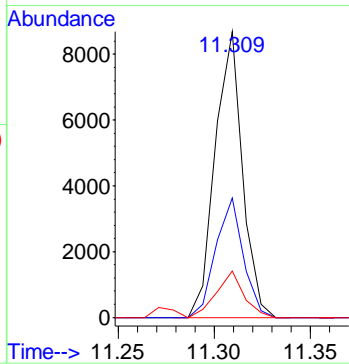
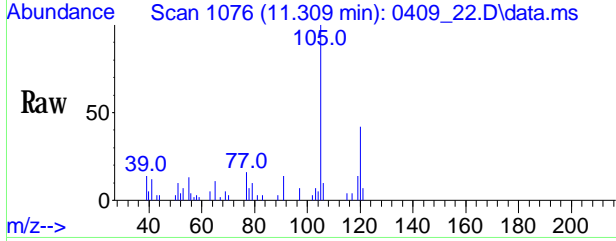
#61
 o-Xylene
 Conc: 8S 0.245 ppbv
 RT: 10.353 min Scan# 952
 Delta R.T. 0.000 min
 Lab File: 0409_22.D
 Acq: 09 Apr 2019 07:18 pm

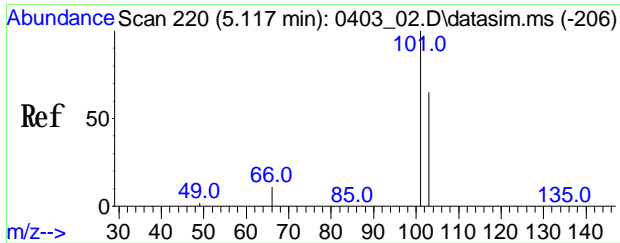
Tgt Ion	Ratio	Resp	Lower	Upper
91	100	8784		
106	41.7	38.3		57.5
105	18.1	15.2		22.8



#68
 1,2,4-Trimethylbenzene
 Conc: 8S 0.216 ppbv
 RT: 11.309 min Scan# 1076
 Delta R.T. 0.000 min
 Lab File: 0409_22.D
 Acq: 09 Apr 2019 07:18 pm

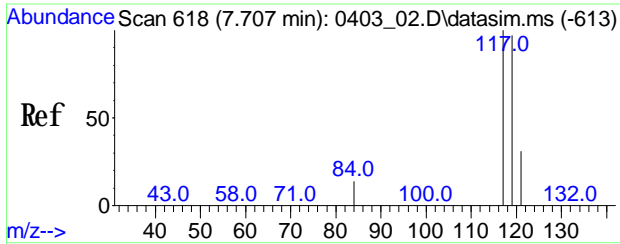
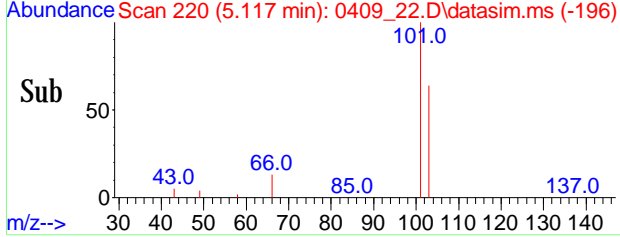
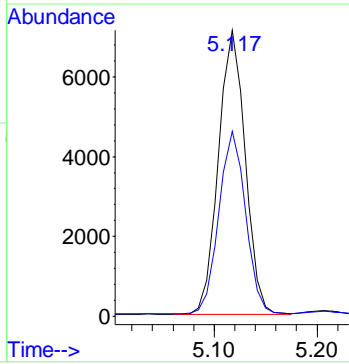
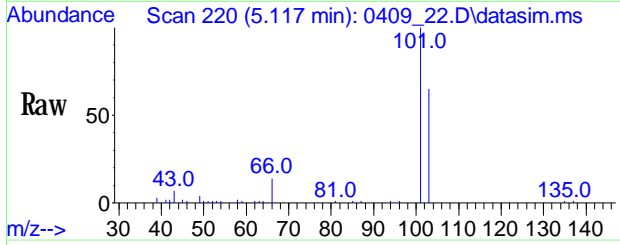
Tgt Ion	Ratio	Resp	Lower	Upper
105	100	8620		
120	42.3	44.5		66.7#
77	16.4	19.7		29.5#





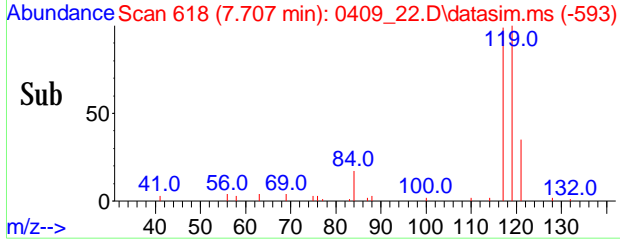
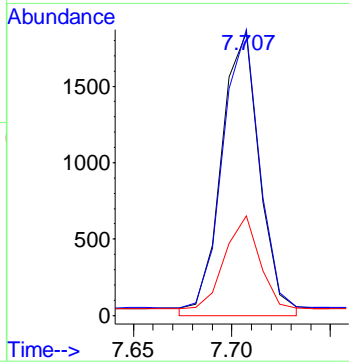
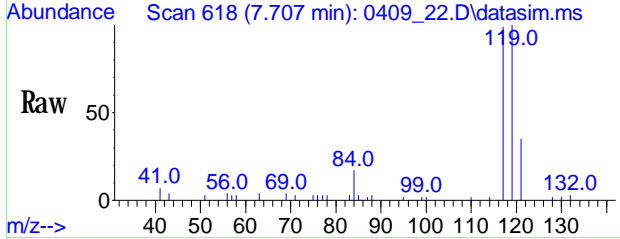
#84
 Trichlorofluoromethane(sim)
 Conc: 8S 0.218 ppbv
 RT: 5.117 min Scan# 220
 Delta R.T. -0.008 min
 Lab File: 0409_22.D
 Acq: 09 Apr 2019 07:18 pm

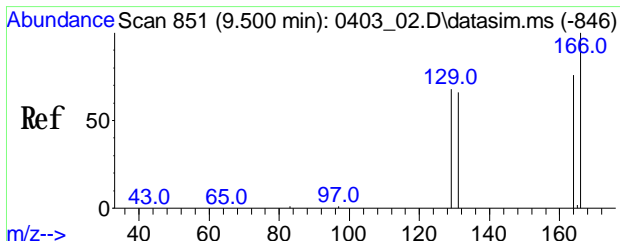
Tgt Ion	Ratio	Resp	Lower	Upper
101	100	12681		
103	64.2	51.9		77.9



#87
 Carbon Tetrachloride(sim)
 Conc: 8S 0.087 ppbv
 RT: 7.704 min Scan# 618
 Delta R.T. 0.000 min
 Lab File: 0409_22.D
 Acq: 09 Apr 2019 07:18 pm

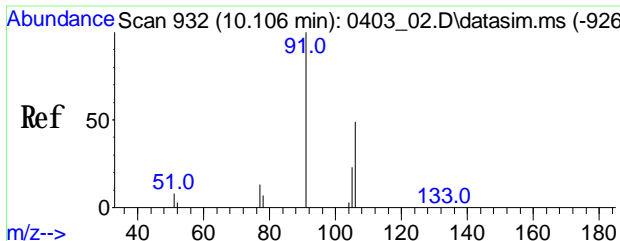
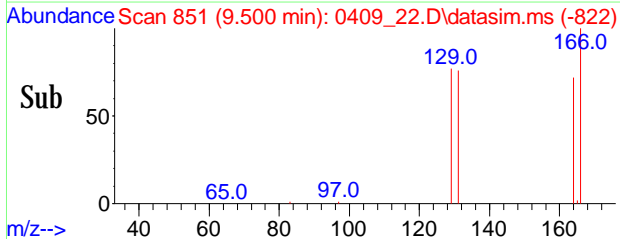
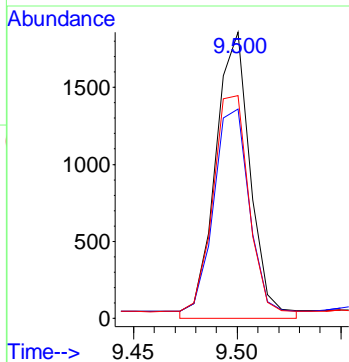
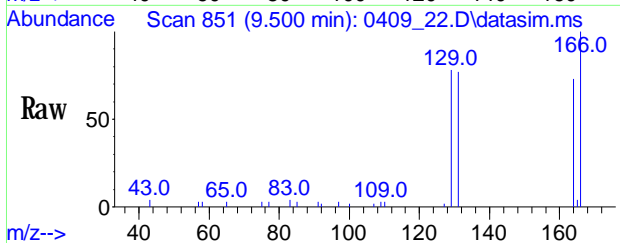
Tgt Ion	Ratio	Resp	Lower	Upper
117	100	1967		
119	83.1	76.6		115.0
121	28.8	24.6		36.8





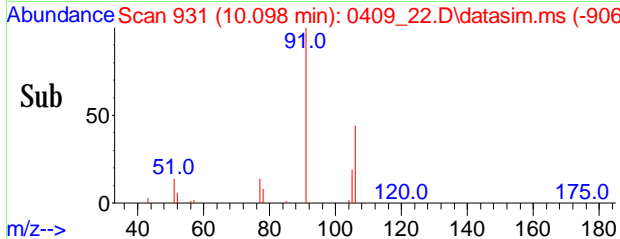
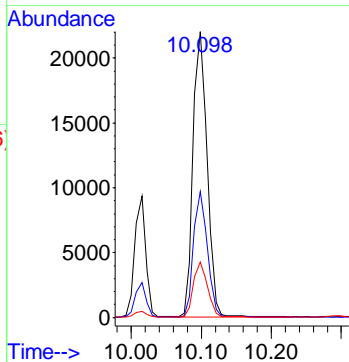
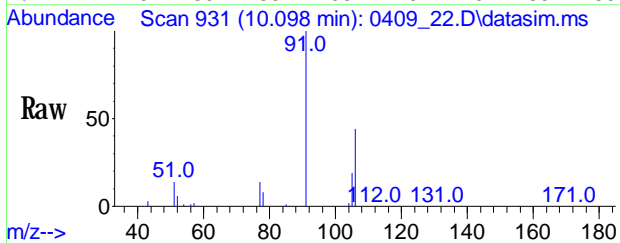
#103
 Tetrachloroethene (sim)
 Conc: 8S 0.085 ppbv
 RT: 9.497 min Scan# 851
 Delta R.T. 0.000 min
 Lab File: 0409_22.D
 Acq: 09 Apr 2019 07:18 pm

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	1540		
164	67.3	57.7	97.7	
129	86.7	48.6	88.6	



#106
 m p-Xylene (sim)
 Conc: 8S 0.839 ppbv
 RT: 10.098 min Scan# 931
 Delta R.T. -0.007 min
 Lab File: 0409_22.D
 Acq: 09 Apr 2019 07:18 pm

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	30547		
106	43.2	44.3	54.1#	
105	19.2	17.7	26.5	



1
AIR ANALYSIS DATA SHEET

CLIENT ID

IA-1

Client: WALDENE Lab: Phoenix Env. Labs

SDG No.: GCC90508 Lab Sample ID: CC90514

Canister: 21365 Lab File ID: 0409_23.D

Instrument: CHEM20 Column: RTX-1 60M Date Received: 04/08/19

Purge Volume 200 (cc) Date Analyzed: 04/09/19

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	0.482		0.202	0.202	r
74-87-3	Chloromethane	0.607		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	5.57	S	0.531	0.531	r
67-64-1	Acetone	2.34	S	0.421	0.421	r
75-69-4	Trichlorofluoromethane	0.267		0.178	0.178	r
67-63-0	Isopropylalcohol	0.952	S	0.407	0.407	r
107-13-1	Acrylonitrile	0.461	U	0.461	0.461	r
75-09-2	Methylene Chloride	0.864	U	0.864	0.864	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
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	0.391		0.037	0.037	r
630-20-6	1,1,1,2-Tetrachloroethane	0.146	U	0.146	0.146	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)	0.078	U	0.078	0.078	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

IA-1

Client: WALDENE Lab: Phoenix Env. Labs

SDG No.: GCC90508 Lab Sample ID: CC90514

Canister: 21365 Lab File ID: 0409_23.D

Instrument: CHEM20 Column: RTX-1 60M Date Received: 04/08/19

Purge Volume 200 (cc) Date Analyzed: 04/09/19

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	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)	0.084		0.032	0.032	r
75-35-4	1,1-Dichloroethene(sim)	0.051	U	0.051	0.051	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)	0.051	U	0.051	0.051	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)	0.037	U	0.037	0.037	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
179601-23-1	m,p-Xylene(sim)	0.230	U	0.230	0.230	r
79-34-5	1,1,1,2-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

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2019\CHEM20\04APR\09\
 Data File : 0409_23.D
 Acq On : 09 Apr 2019 08:00 pm
 Operator : CORTEX\ms
 Client ID : IA-1
 Lab ID : CC90514
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 10 09:34:52 2019
 Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_0409.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Wed Apr 10 09:07:16 2019
 Response via : Initial Calibration

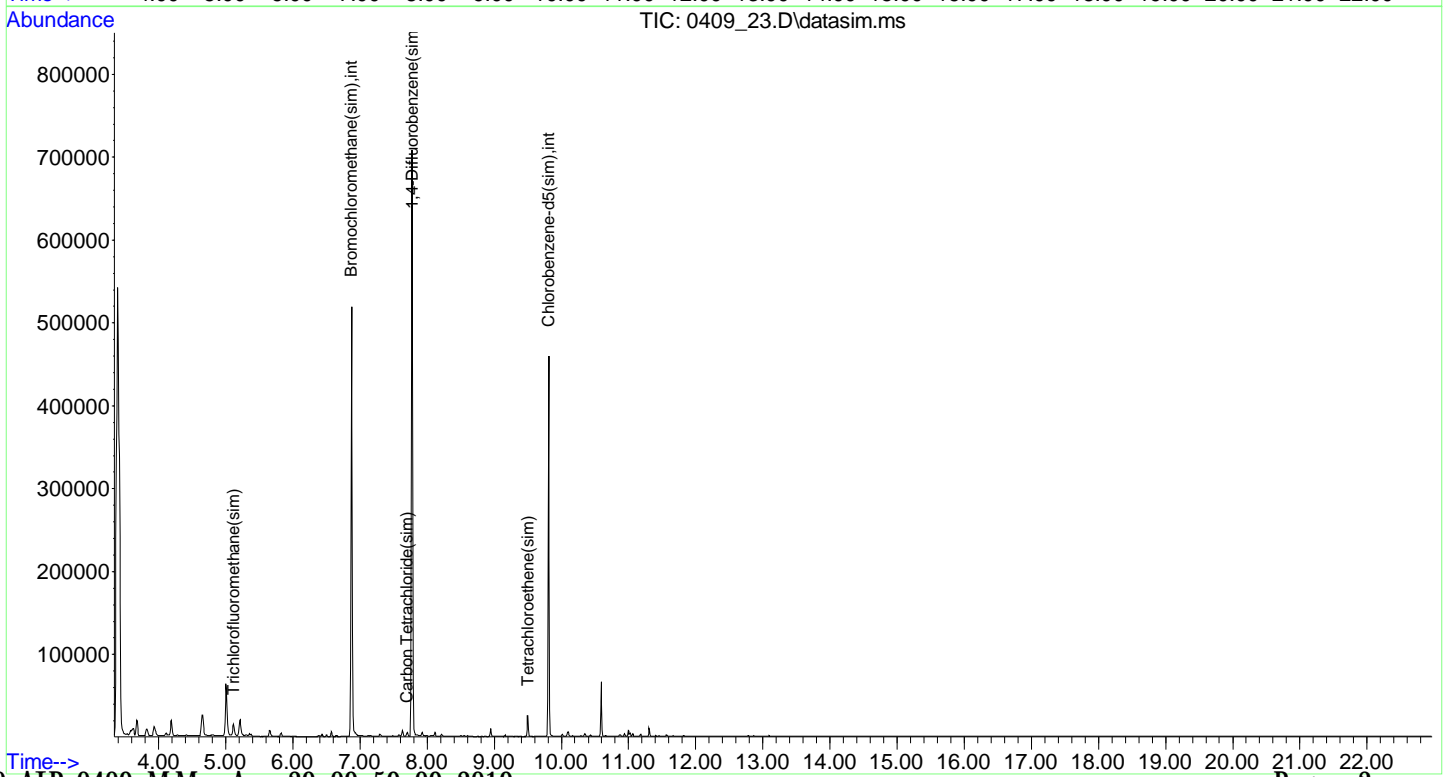
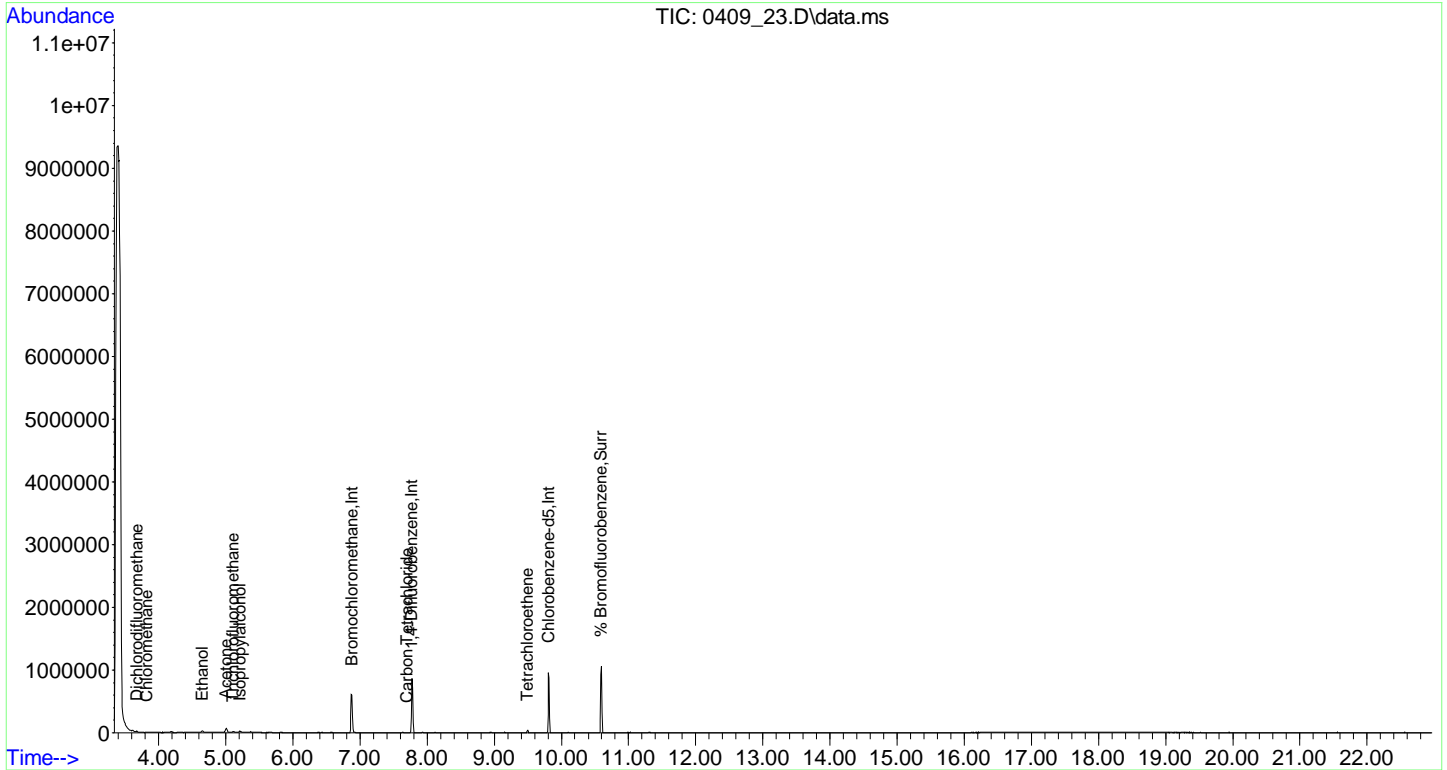
Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
Internal Standards						
1) Bromchloromethane	6.879	130	122750	10.000	ng	0.00
36) 1,4-Difluorobenzene	7.772	114	385641	10.000	ng	0.00
53) Chlorobenzene-d5	9.807	82	183209	10.000	ng	# 0.00
80) Bromchloromethane(sim)	6.874	130	166803	10.000	ng	# 0.00
94) 1,4-Difluorobenzene(sim)	7.775	114	441412	10.000	ng	0.00
104) Chlorobenzene-d5(sim)	9.810	82	184998	10.000	ng	# 0.00
System Monitoring Compounds						
62) % Bromfluorobenzene	10.596	95	241843	10.069	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	100.70%
Target Compounds						
3) Dichlorodifluoromethane	3.678	85	15182	0.482	ppbv#	96
4) Chloromethane	3.824	50	7984	0.607	ppbv	94
11) Ethanol	4.652	45	29394	5.565	ppbv	94
12) Acetone	5.009	43	64204	2.339	ppbv#	86
13) Trichlorofluoromethane	5.114	101	10994	0.267	ppbv#	99
14) Isopropylalcohol	5.212	45	27529	0.952	ppbv#	98
34) Carbon Tetrachloride	7.704	117	1821	0.078	ppbv	97
52) Tetrachloroethene	9.497	166	5992	0.391	ppbv#	89
84) Trichlorofluoromethane...	5.117	101	13283	0.239	ppbv	98
87) Carbon Tetrachloride(sim)	7.704	117	1821	0.084	ppbv	97
103) Tetrachloroethene(sim)	9.497	166	5992	0.346	ppbv	89

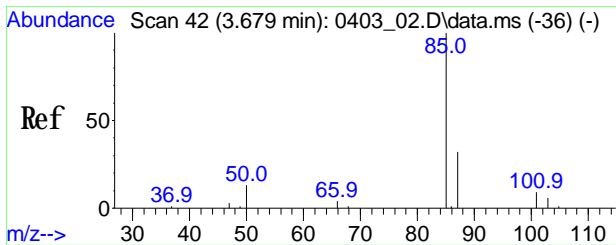
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2019\CHEM20\04APR\09\
Data File : 0409_23.D
Acq On : 09 Apr 2019 08:00 pm
Operator : CORTEX\nms
Client ID : IA-1
Lab ID : CC90514
ALS Vial : 1 Sample Multiplier: 1

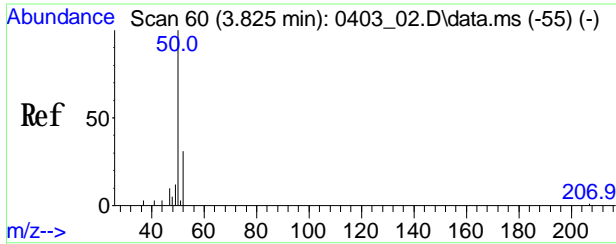
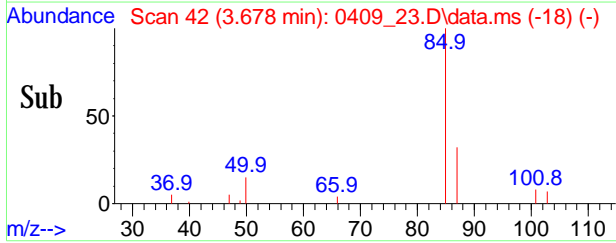
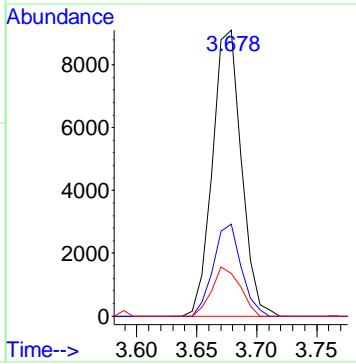
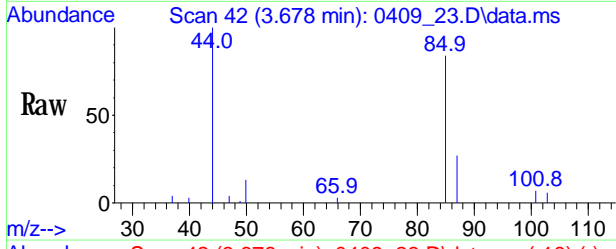
Quant Time: Apr 10 09:34:52 2019
Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_0409.M
Quant Title : VOA Standards for 5 point calibration
Last Update : Wed Apr 10 09:07:16 2019
Response via : Initial Calibration





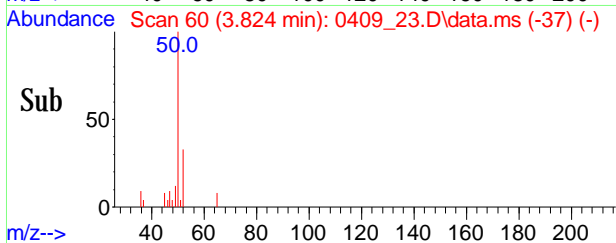
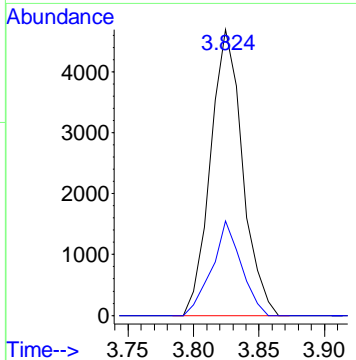
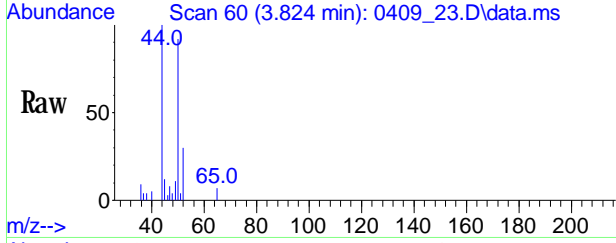
#3
Dichlorodifluoromethane
 Conc: 8S 0.482 ppby
 RT: 3.678 min Scan# 42
 Delta R.T. -0.008 min
 Lab File: 0409_23.D
 Acq: 09 Apr 2019 08:00 pm

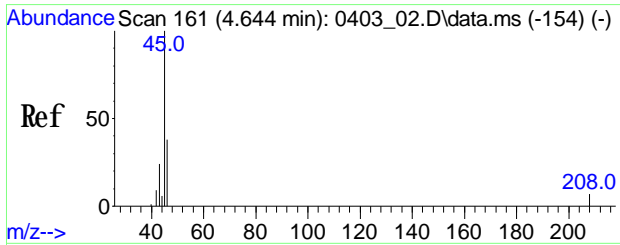
Tgt Ion	Ratio	Resp	Lower	Upper
85	100	15182		
87	31.3	25.6	38.4	
50	16.7	9.4	14.2#	



#4
Chloromethane
 Conc: 8S 0.607 ppby
 RT: 3.824 min Scan# 60
 Delta R.T. -0.016 min
 Lab File: 0409_23.D
 Acq: 09 Apr 2019 08:00 pm

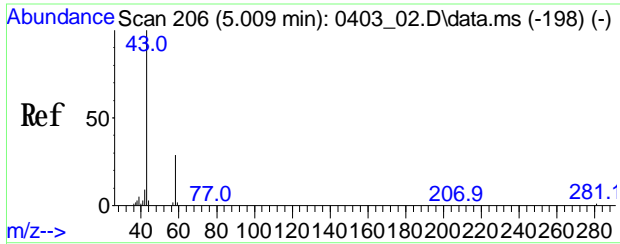
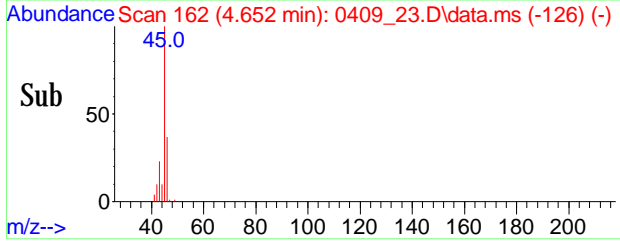
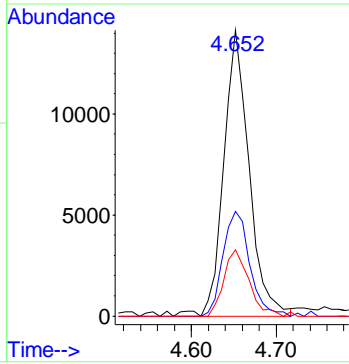
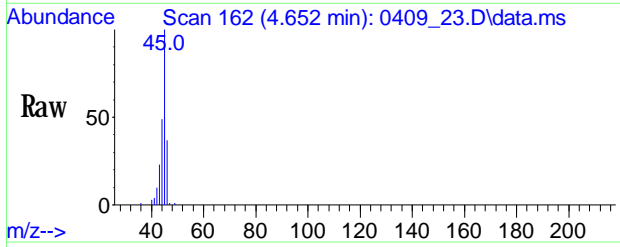
Tgt Ion	Ratio	Resp	Lower	Upper
50	100	7984		
52	30.2	13.6	53.6	





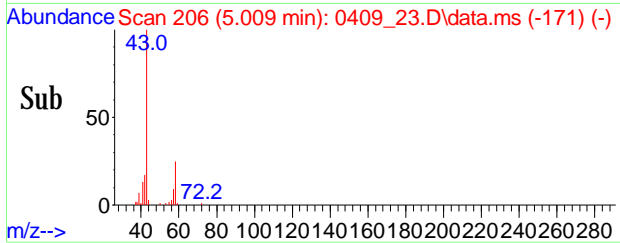
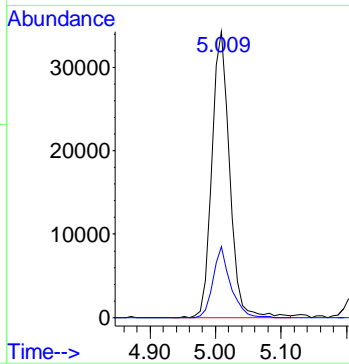
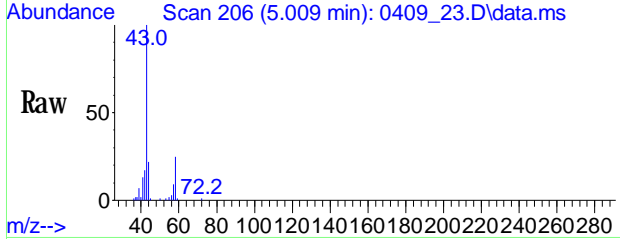
#11
 Ethanol
 Conc: 8S 5.565 ppbv
 RT: 4.652 min Scan# 162
 Delta R.T. -0.008 min
 Lab File: 0409_23.D
 Acq: 09 Apr 2019 08:00 pm

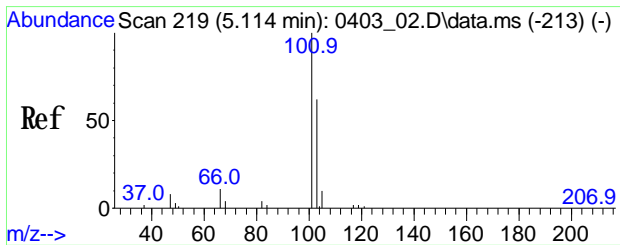
Tgt Ion	Ratio	Resp	Upper
45	100	29394	
46	38.5	29.9	44.9
43	22.9	22.7	34.1



#12
 Acetone
 Conc: 8S 2.339 ppbv
 RT: 5.009 min Scan# 206
 Delta R.T. -0.016 min
 Lab File: 0409_23.D
 Acq: 09 Apr 2019 08:00 pm

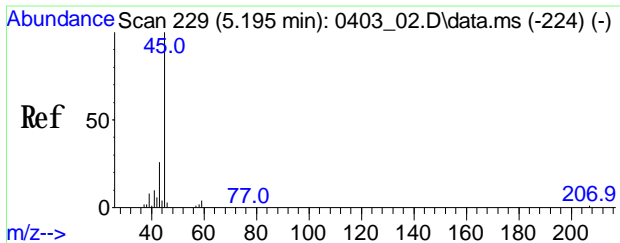
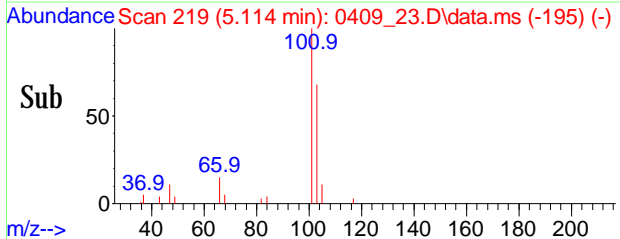
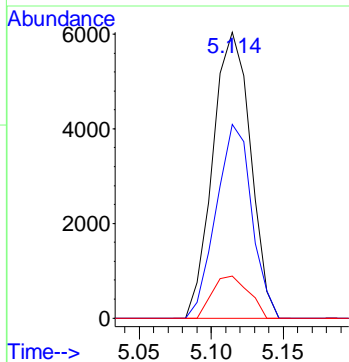
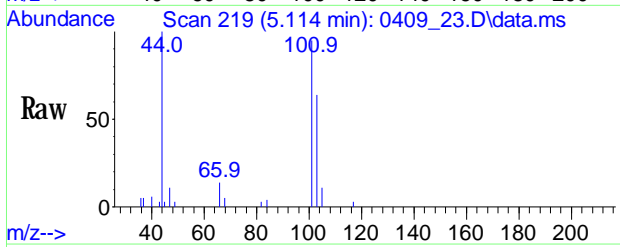
Tgt Ion	Ratio	Resp	Upper
43	100	64204	
58	24.4	25.9	38.9#





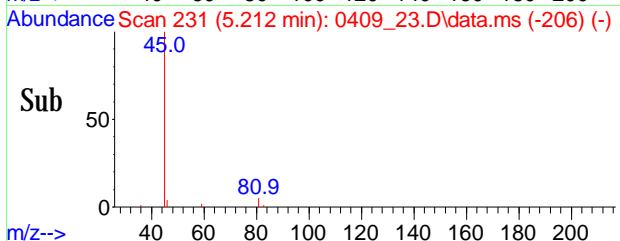
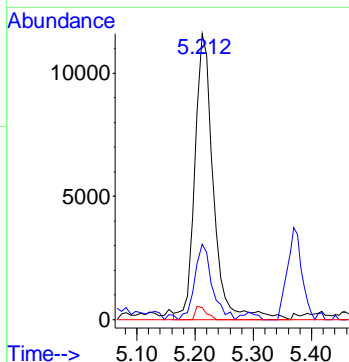
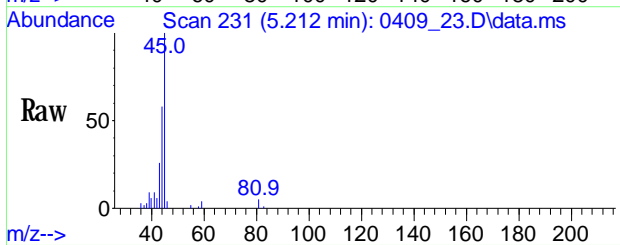
#13
 Trichlorofluoromethane
 Conc: 8S 0.267 ppbv
 RT: 5.114 min Scan# 219
 Delta R.T. -0.008 min
 Lab File: 0409_23.D
 Acq: 09 Apr 2019 08:00 pm

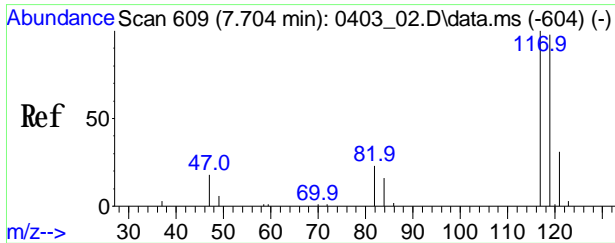
Tgt Ion	Ratio	Resp	Lower	Upper
101	100	10994		
103	64.1	51.6	77.4	
66	14.2	9.4	14.0#	



#14
 Isopropylalcohol
 Conc: 8S 0.952 ppbv
 RT: 5.212 min Scan# 231
 Delta R.T. -0.000 min
 Lab File: 0409_23.D
 Acq: 09 Apr 2019 08:00 pm

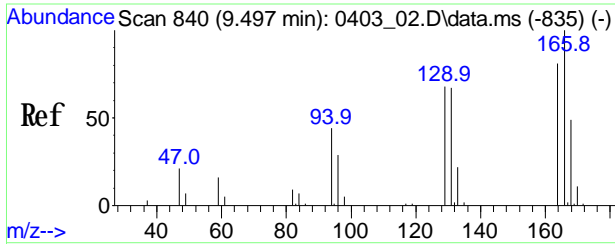
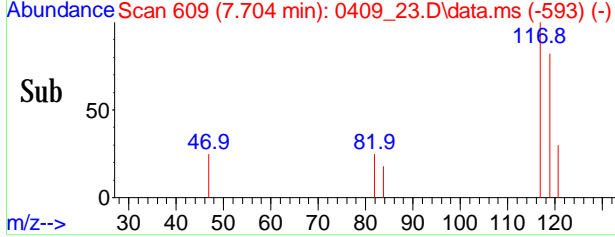
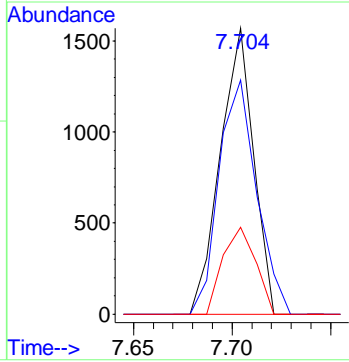
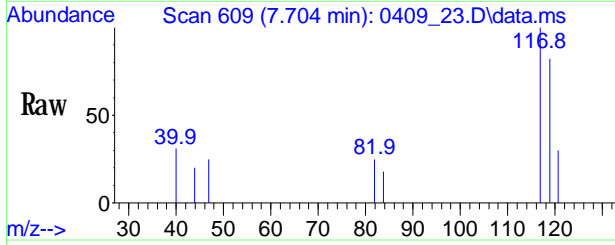
Tgt Ion	Ratio	Resp	Lower	Upper
45	100	27529		
43	22.8	18.6	27.8	
59	2.5	3.7	5.5#	





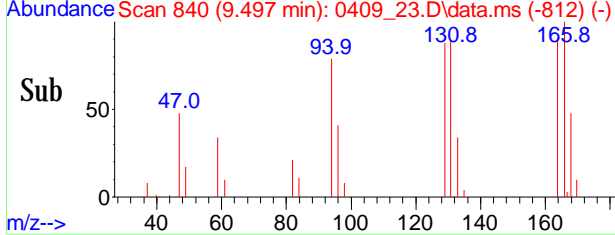
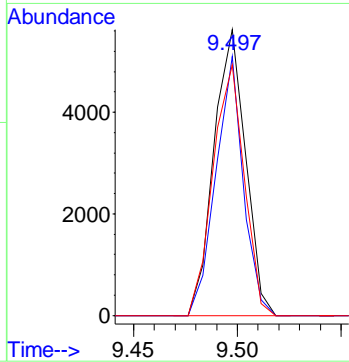
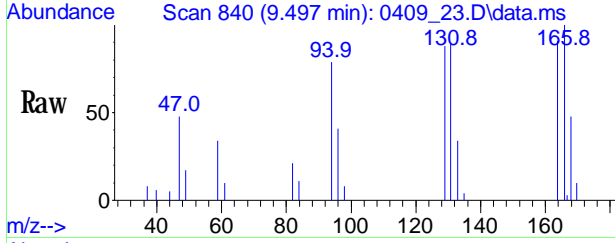
#34
Carbon Tetrachloride
 Conc: 8S Below Cal
 RT: 7.704 min Scan# 609
 Delta R.T. 0.000 min
 Lab File: 0409_23.D
 Acq: 09 Apr 2019 08:00 pm

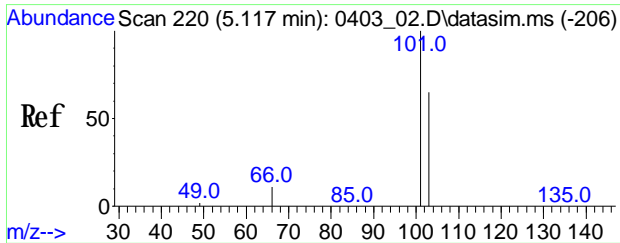
Tgt Ion	Ratio	Resp	Lower	Upper
117	100	1821		
119	92.9	75.8		115.8
121	30.1	10.7		50.7



#52
Tetrachloroethene
 Conc: 8S 0.391 ppby
 RT: 9.497 min Scan# 840
 Delta R.T. 0.000 min
 Lab File: 0409_23.D
 Acq: 09 Apr 2019 08:00 pm

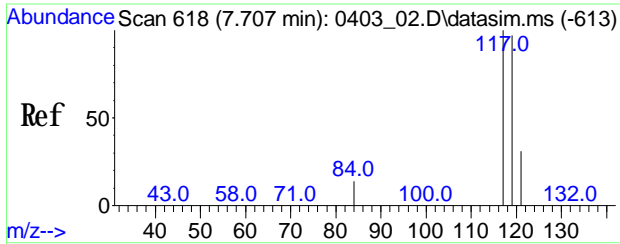
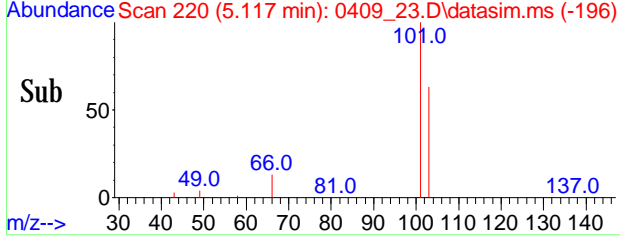
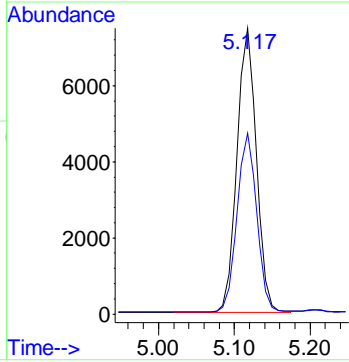
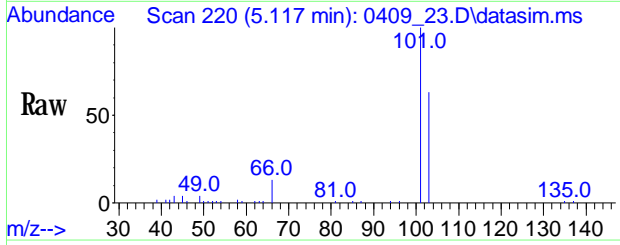
Tgt Ion	Ratio	Resp	Lower	Upper
166	100	5992		
164	78.7	62.2		93.2
129	86.5	54.9		82.3#





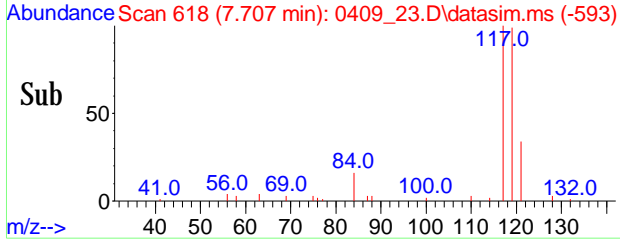
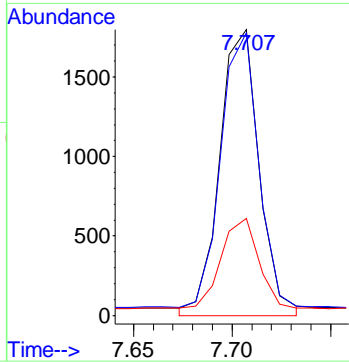
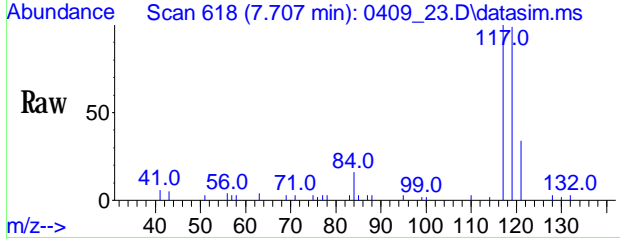
#84
 Trichlorofluoromethane(sim)
 Conc: 8S 0.239 ppbv
 RT: 5.117 min Scan# 220
 Delta R.T. -0.008 min
 Lab File: 0409_23.D
 Acq: 09 Apr 2019 08:00 pm

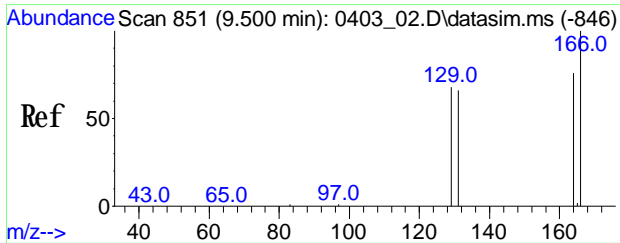
Tgt Ion	Ratio	Resp	Lower	Upper
101	100	13283		
103	63.6	51.9		77.9



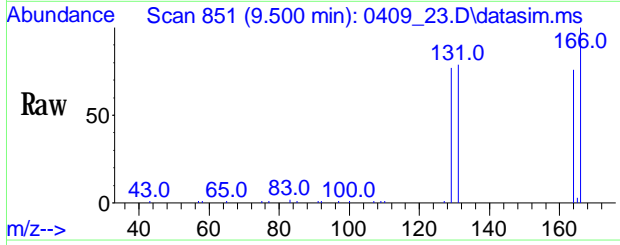
#87
 Carbon Tetrachloride(sim)
 Conc: 8S 0.084 ppbv
 RT: 7.704 min Scan# 618
 Delta R.T. 0.000 min
 Lab File: 0409_23.D
 Acq: 09 Apr 2019 08:00 pm

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	1821		
119	92.9	76.6		115.0
121	30.1	24.6		36.8



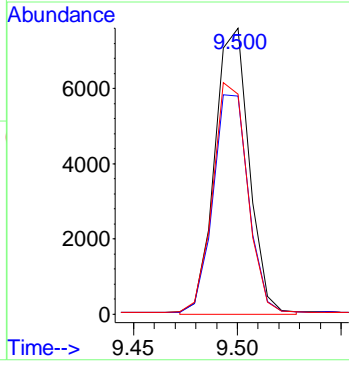
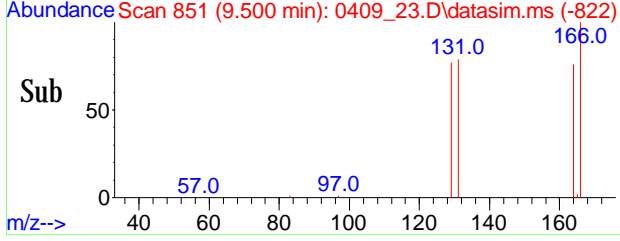


#103
 Tetrachloroethene (sim)
 Conc: 8S 0.346 ppbv
 RT: 9.497 min Scan# 851
 Delta R.T. 0.000 min
 Lab File: 0409_23.D
 Acq: 09 Apr 2019 08:00 pm



Tgt Ion: 166 Resp: 5992

Ion	Ratio	Lower	Upper
166	100		
164	78.7	57.7	97.7
129	86.5	48.6	88.6



1
AIR ANALYSIS DATA SHEET

CLIENT ID

IA-2

Client:	WALDENE	Lab:	Phoenix Env. Labs
SDG No.:	GCC90508	Lab Sample ID:	CC90515
Canister:	11292	Lab File ID:	0409_24.D
Instrument:	CHEM20	Column:	RTX-1 60M
Purge Volume	200	(cc)	Date Received: 04/08/19
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	0.474		0.202	0.202	r
74-87-3	Chloromethane	0.630		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	5.32	S	0.531	0.531	r
67-64-1	Acetone	3.53	S	0.421	0.421	r
75-69-4	Trichlorofluoromethane	0.257		0.178	0.178	r
67-63-0	Isopropylalcohol	1.15	S	0.407	0.407	r
107-13-1	Acrylonitrile	0.461	U	0.461	0.461	r
75-09-2	Methylene Chloride	0.864	U	0.864	0.864	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
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	0.344		0.266	0.266	r
591-78-6	2-Hexanone(MBK)	0.244	U	0.244	0.244	r
127-18-4	Tetrachloroethene	1.00		0.037	0.037	r
630-20-6	1,1,1,2-Tetrachloroethane	0.146	U	0.146	0.146	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	0.351		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)	0.078	U	0.078	0.078	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

IA-2

Client:	WALDENE	Lab:	Phoenix Env. Labs
SDG No.:	GCC90508	Lab Sample ID:	CC90515
Canister:	11292	Lab File ID:	0409_24.D
Instrument:	CHEM20	Column:	RTX-1 60M
Purge Volume	200	(cc)	Date Received:
			04/08/19
Matrix:	AIR	Dilution Factor:	1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	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)	0.084		0.032	0.032	r
75-35-4	1,1-Dichloroethene(sim)	0.051	U	0.051	0.051	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)	0.051	U	0.051	0.051	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)	0.037	U	0.037	0.037	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
179601-23-1	m,p-Xylene(sim)	0.230	U	0.230	0.230	r
79-34-5	1,1,1,2-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

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2019\CHEM20\04APR\09\
 Data File : 0409_24.D
 Acq On : 09 Apr 2019 08:41 pm
 Operator : CORTEX\ms
 Client ID : IA-2
 Lab ID : CC90515
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 10 09:35:18 2019
 Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_0409.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Wed Apr 10 09:07:16 2019
 Response via : Initial Calibration

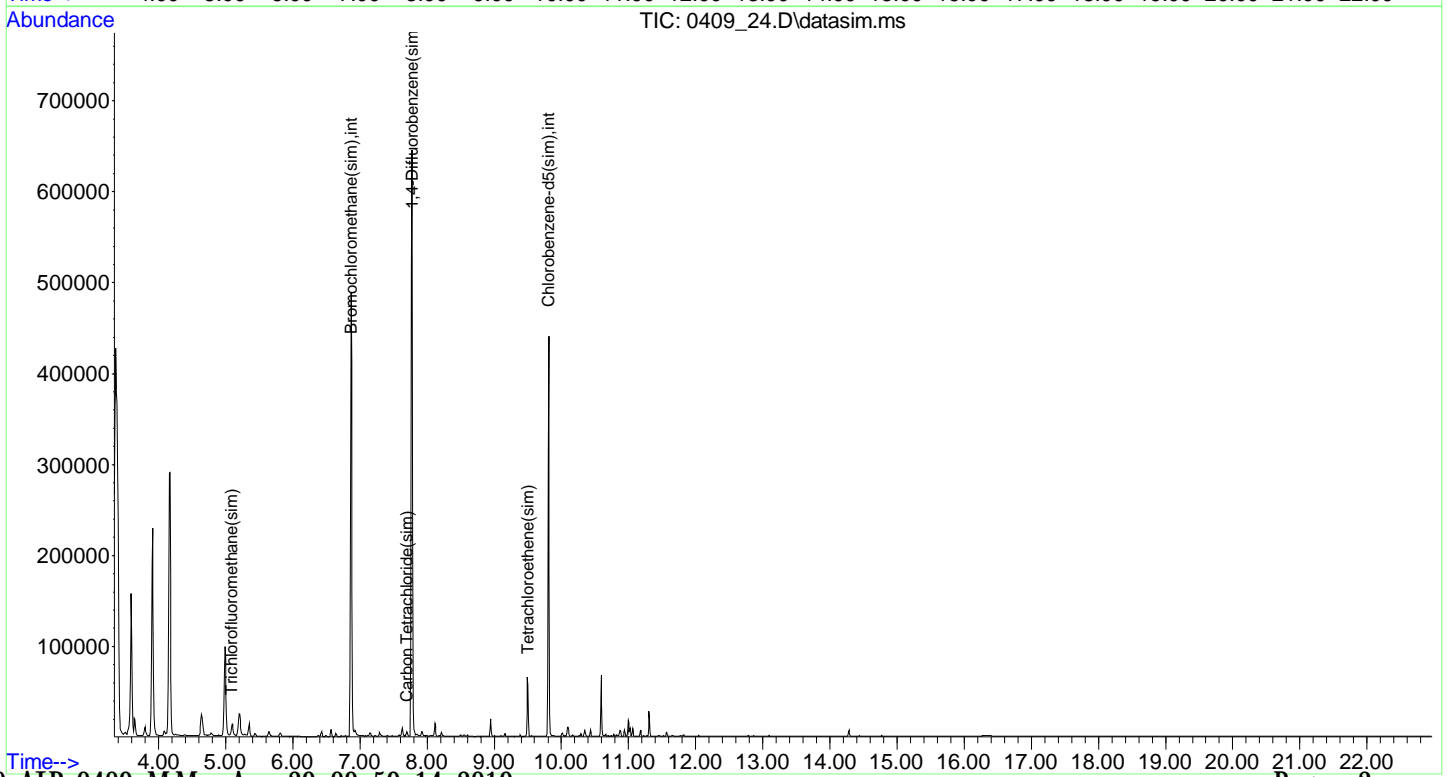
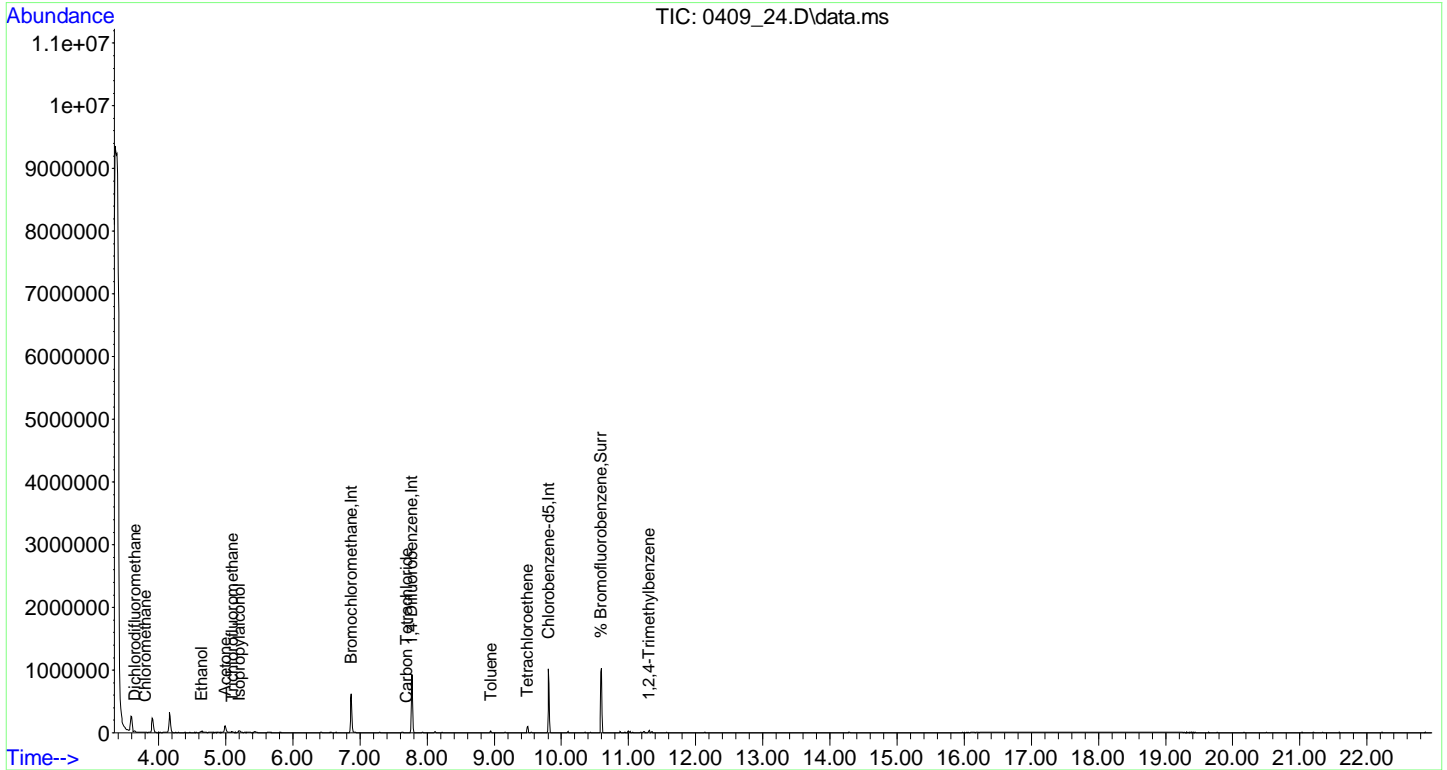
Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
Internal Standards						
1) Bromchloromethane	6.871	130	118253	10.000	ng	0.00
36) 1,4-Difluorobenzene	7.772	114	382590	10.000	ng	0.00
53) Chlorobenzene-d5	9.807	82	184430	10.000	ng	# 0.00
80) Bromchloromethane(sim)	6.874	130	162299	10.000	ng	# 0.00
94) 1,4-Difluorobenzene(sim)	7.775	114	431989	10.000	ng	0.00
104) Chlorobenzene-d5(sim)	9.810	82	182680	10.000	ng	# 0.00
System Monitoring Compounds						
62) % Bromfluorobenzene	10.596	95	241691	9.996	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	100.00%
Target Compounds						
3) Dichlorodifluoromethane	3.646	85	14365	0.474	ppbv#	95
4) Chloromethane	3.800	50	7982	0.630	ppbv	100
11) Ethanol	4.644	45	27078	5.322	ppbv	97
12) Acetone	4.993	43	93348	3.531	ppbv#	78
13) Trichlorofluoromethane	5.098	101	10171	0.256	ppbv	98
14) Isopropylalcohol	5.204	45	32129	1.153	ppbv#	92
34) Carbon Tetrachloride	7.696	117	1768	0.079	ppbv	94
48) Toluene	8.949	91	10793	0.344	ppbv	91
52) Tetrachloroethene	9.498	166	15240	1.003	ppbv#	88
68) 1,2,4-Trimethylbenzene	11.309	105	13647	0.350	ppbv#	81
84) Trichlorofluoromethane...	5.093	101	12685	0.234	ppbv	99
87) Carbon Tetrachloride(sim)	7.696	117	1768	0.084	ppbv	94
103) Tetrachloroethene(sim)	9.498	166	15240	0.898	ppbv	88

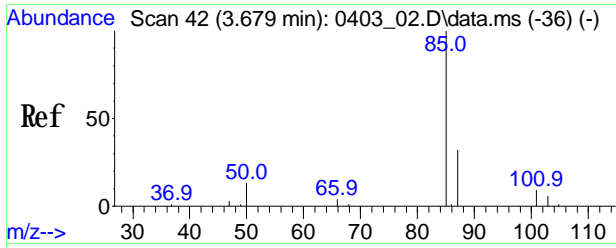
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2019\CHEM20\04APR\09\
Data File : 0409_24.D
Acq On : 09 Apr 2019 08:41 pm
Operator : CORTEX\nms
Client ID : IA-2
Lab ID : CC90515
ALS Vial : 1 Sample Multiplier: 1

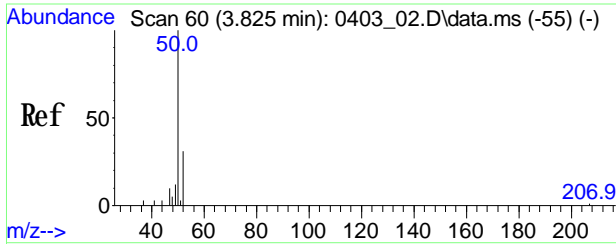
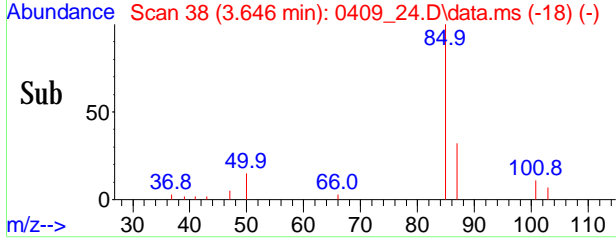
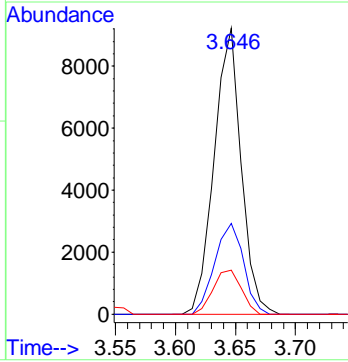
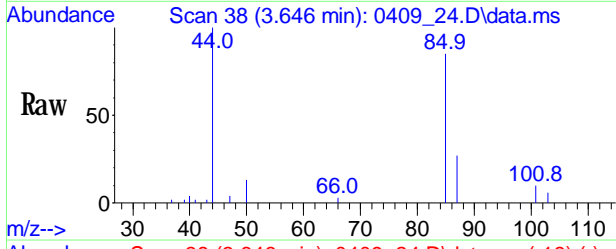
Quant Time: Apr 10 09:35:18 2019
Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_0409.M
Quant Title : VOA Standards for 5 point calibration
Last Update : Wed Apr 10 09:07:16 2019
Response via : Initial Calibration





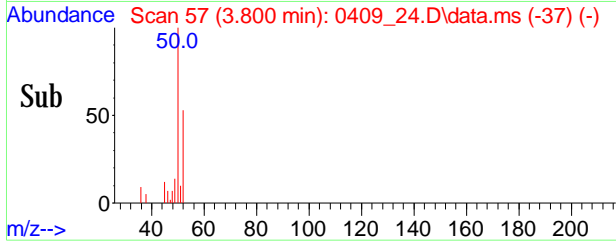
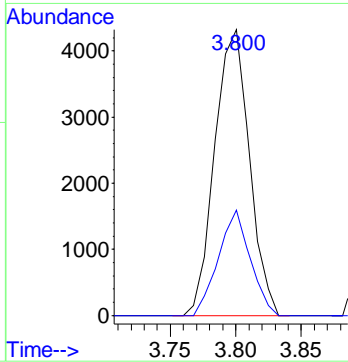
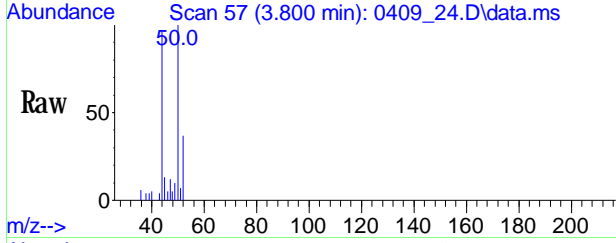
#3
Dichlorodifluoromethane
 Conc: 8S 0.474 ppby
 RT: 3.646 min Scan# 38
 Delta R.T. -0.040 min
 Lab File: 0409_24.D
 Acq: 09 Apr 2019 08:41 pm

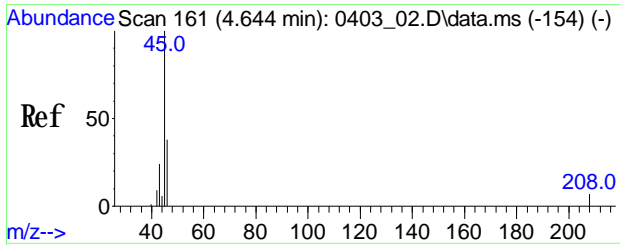
Tgt Ion	Ratio	Resp	Lower	Upper
85	100	14365		
87	33.8	25.6	38.4	
50	16.0	9.4	14.2#	



#4
Chloromethane
 Conc: 8S 0.630 ppby
 RT: 3.800 min Scan# 57
 Delta R.T. -0.040 min
 Lab File: 0409_24.D
 Acq: 09 Apr 2019 08:41 pm

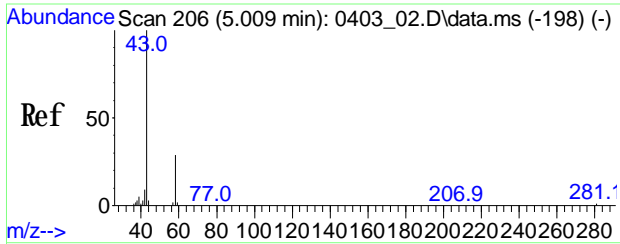
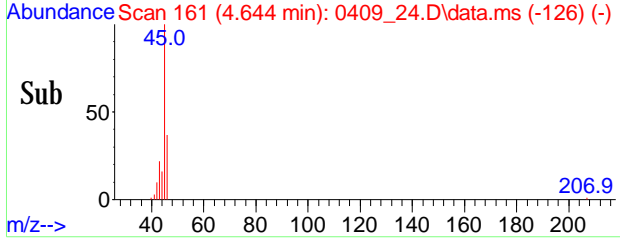
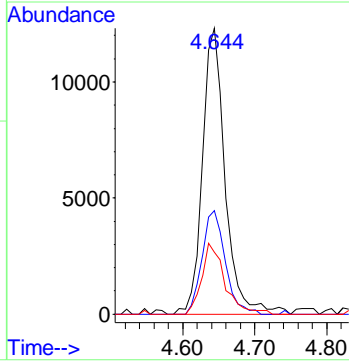
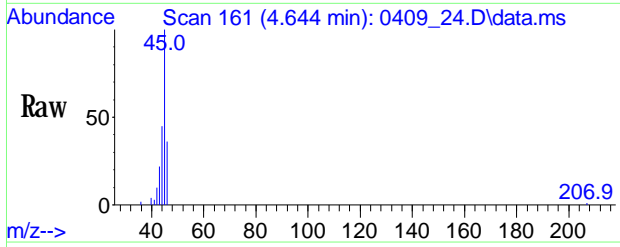
Tgt Ion	Ratio	Resp	Lower	Upper
50	100	7982		
52	33.8	13.6	53.6	





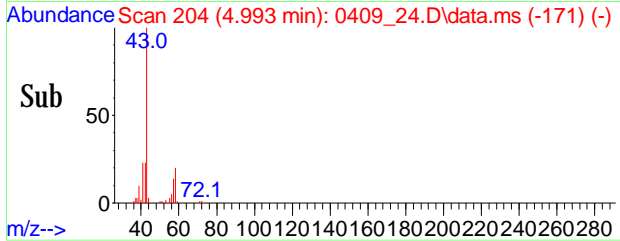
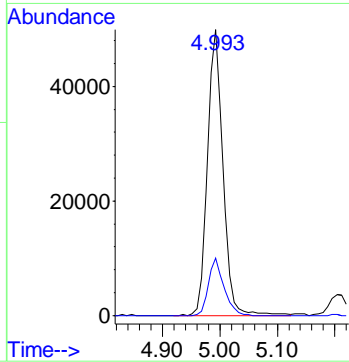
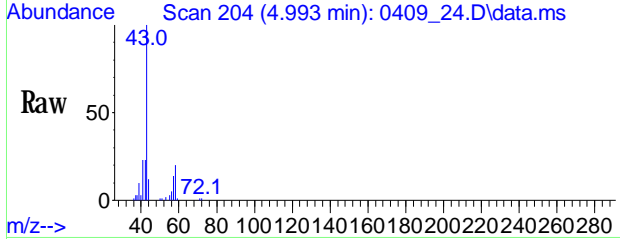
#11
 Ethanol
 Conc: 8S 5.322 ppbv
 RT: 4.644 min Scan# 161
 Delta R.T. -0.016 min
 Lab File: 0409_24.D
 Acq: 09 Apr 2019 08:41 pm

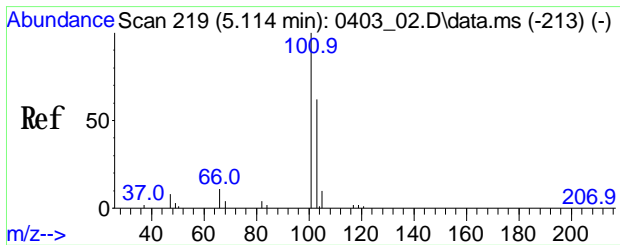
Tgt Ion	Ratio	Resp	Lower	Upper
45	100	27078		
46	37.0	29.9	44.9	
43	25.3	22.7	34.1	



#12
 Acetone
 Conc: 8S 3.531 ppbv
 RT: 4.993 min Scan# 204
 Delta R.T. -0.032 min
 Lab File: 0409_24.D
 Acq: 09 Apr 2019 08:41 pm

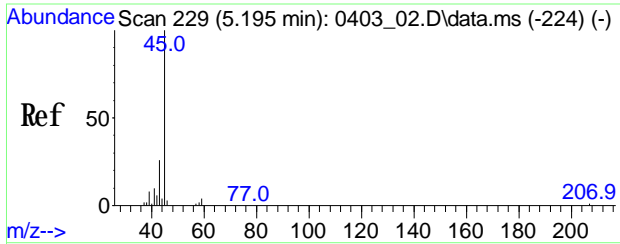
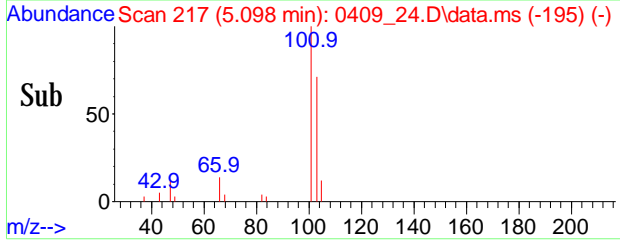
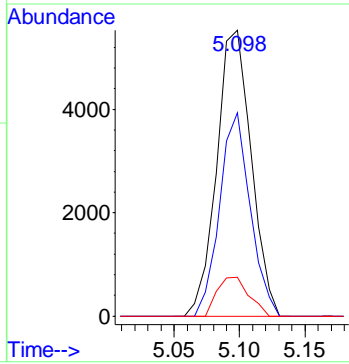
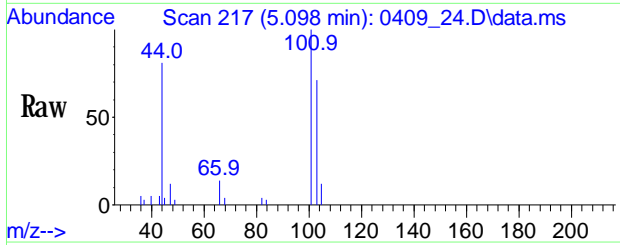
Tgt Ion	Ratio	Resp	Lower	Upper
43	100	93348		
58	20.0	25.9	38.9#	





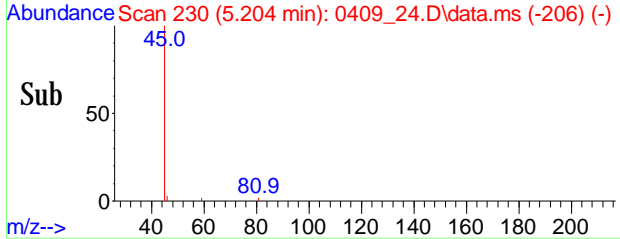
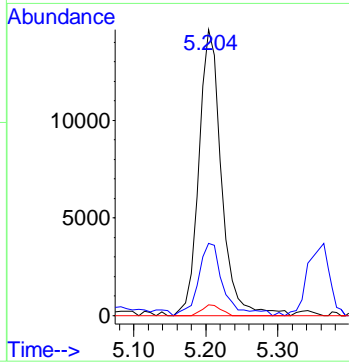
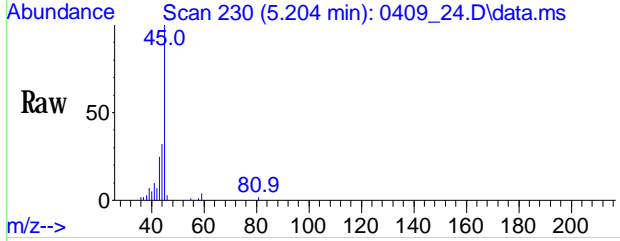
#13
 Trichlorofluoromethane
 Conc: 8S 0.256 ppbv
 RT: 5.098 min Scan# 217
 Delta R.T. -0.024 min
 Lab File: 0409_24.D
 Acq: 09 Apr 2019 08:41 pm

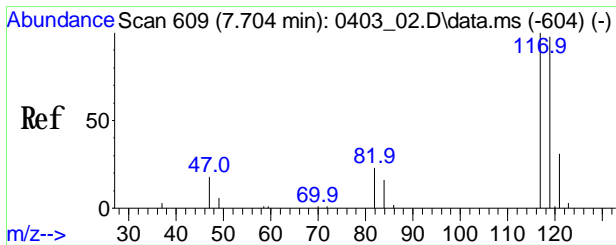
Tgt Ion	Ratio	Resp	Lower	Upper
101	100	10171		
103	63.1	51.6	77.4	
66	12.5	9.4	14.0	



#14
 Isopropylalcohol
 Conc: 8S 1.153 ppbv
 RT: 5.204 min Scan# 230
 Delta R.T. -0.008 min
 Lab File: 0409_24.D
 Acq: 09 Apr 2019 08:41 pm

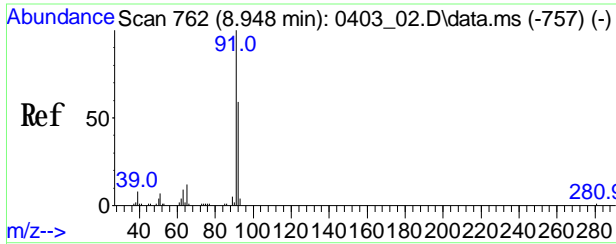
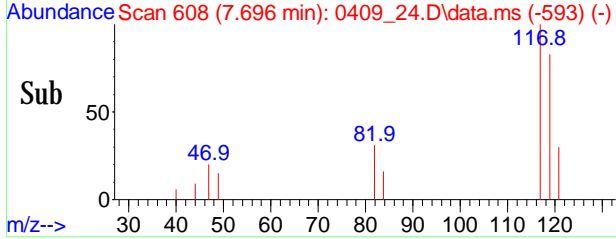
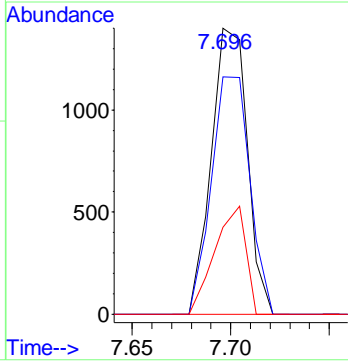
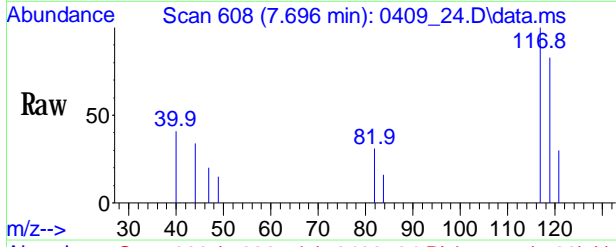
Tgt Ion	Ratio	Resp	Lower	Upper
45	100	32129		
43	27.4	18.6	27.8	
59	3.1	3.7	5.5#	





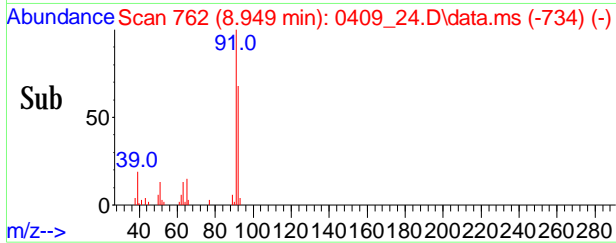
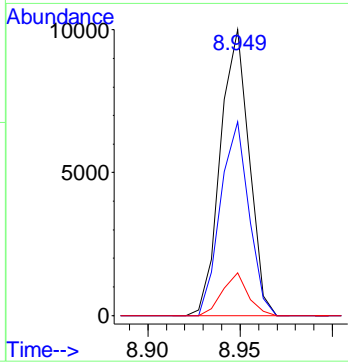
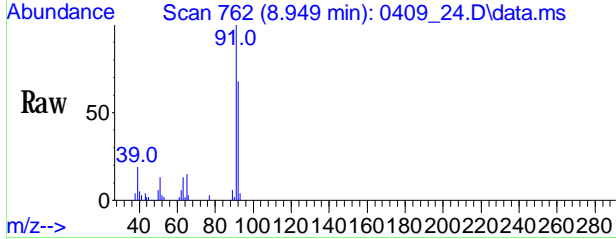
#34
Carbon Tetrachloride
 Conc: 8S Below Cal
 RT: 7.696 min Scan# 608
 Delta R.T. -0.008 min
 Lab File: 0409_24.D
 Acq: 09 Apr 2019 08:41 pm

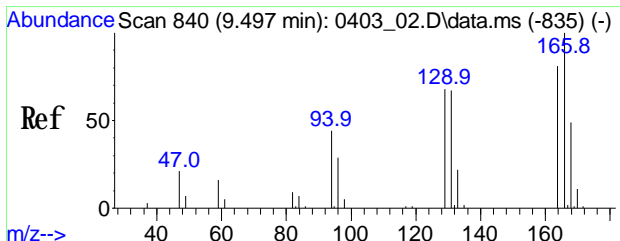
Tgt Ion	Ratio	Resp	Lower	Upper
117	100	1768		
119	88.9	75.8	115.8	
121	32.6	10.7	50.7	



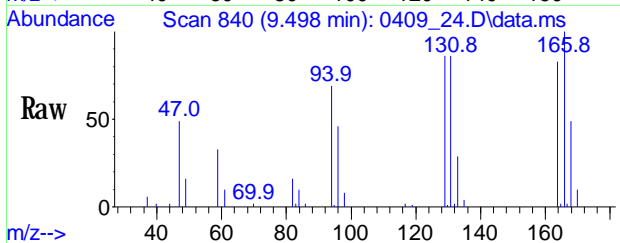
#48
Toluene
 Conc: 8S 0.344 ppby
 RT: 8.949 min Scan# 762
 Delta R.T. 0.000 min
 Lab File: 0409_24.D
 Acq: 09 Apr 2019 08:41 pm

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	10793		
92	67.2	47.7	71.5	
65	13.3	9.3	13.9	

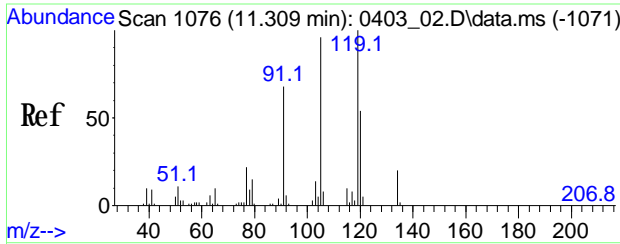
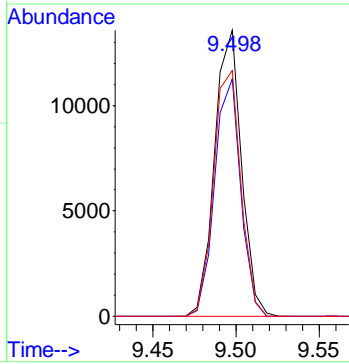
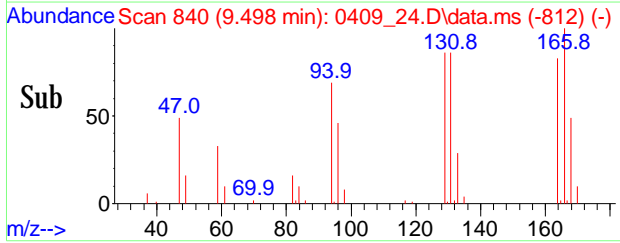




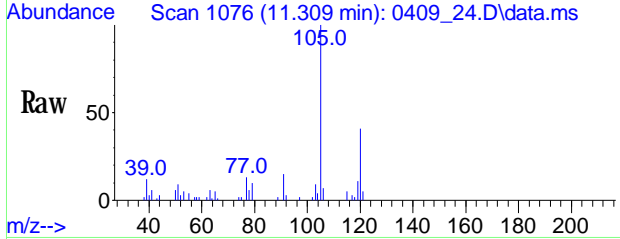
#52
 Tetrachloroethene
 Conc: 8S 1.003 ppby
 RT: 9.498 min Scan# 840
 Delta R.T. 0.000 min
 Lab File: 0409_24.D
 Acq: 09 Apr 2019 08:41 pm



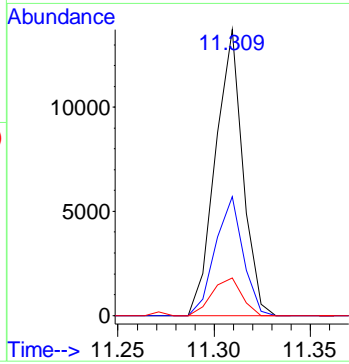
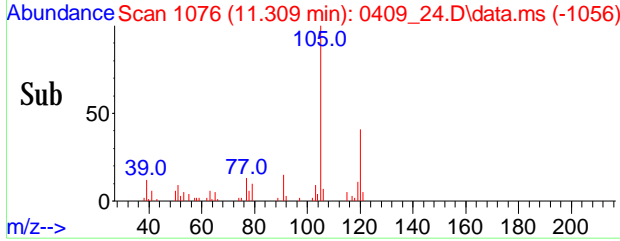
Tgt Ion: 166 Resp: 15240
 Ion Ratio Lower Upper
 166 100
 164 80.2 62.2 93.2
 129 86.9 54.9 82.3#

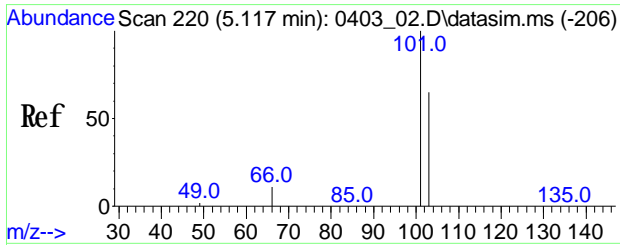


#68
 1,2,4-Trimethylbenzene
 Conc: 8S 0.350 ppby
 RT: 11.309 min Scan# 1076
 Delta R.T. 0.000 min
 Lab File: 0409_24.D
 Acq: 09 Apr 2019 08:41 pm



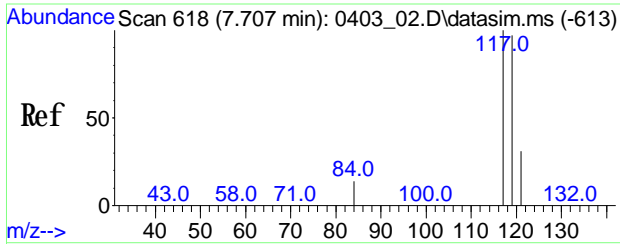
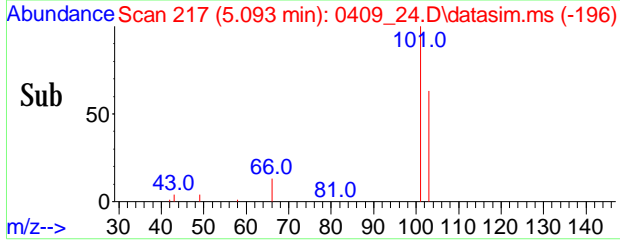
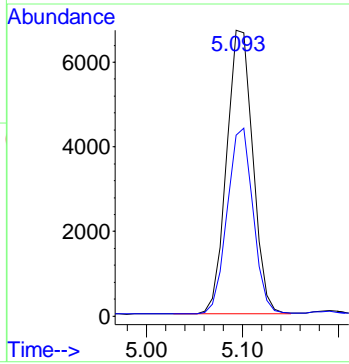
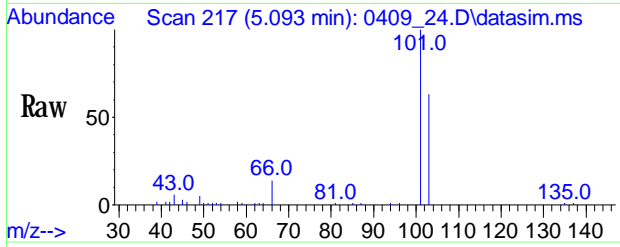
Tgt Ion: 105 Resp: 13647
 Ion Ratio Lower Upper
 105 100
 120 42.2 44.5 66.7#
 77 14.8 19.7 29.5#





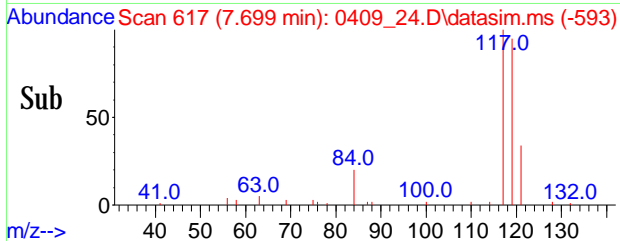
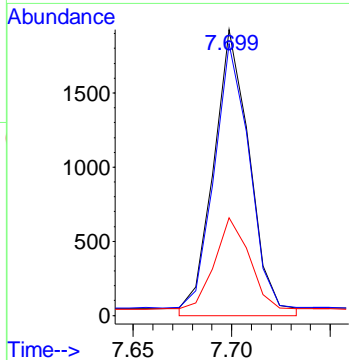
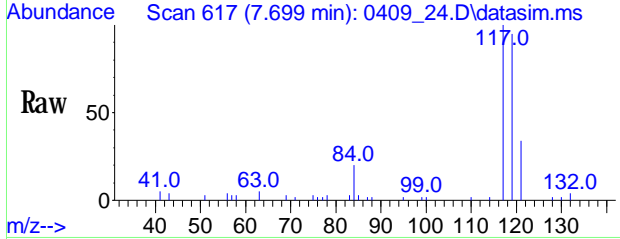
#84
 Trichlorofluoromethane(sim)
 Conc: 8S 0.234 ppbv
 RT: 5.093 min Scan# 217
 Delta R.T. -0.032 min
 Lab File: 0409_24.D
 Acq: 09 Apr 2019 08:41 pm

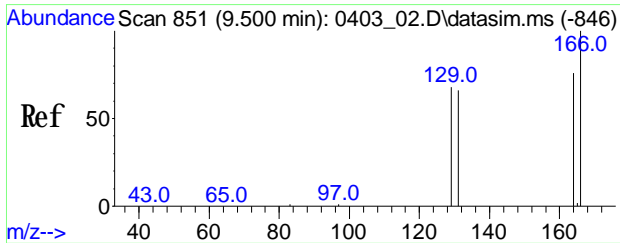
Tgt Ion	Ratio	Resp	Lower	Upper
101	100	12685		
103	64.5	51.9		77.9



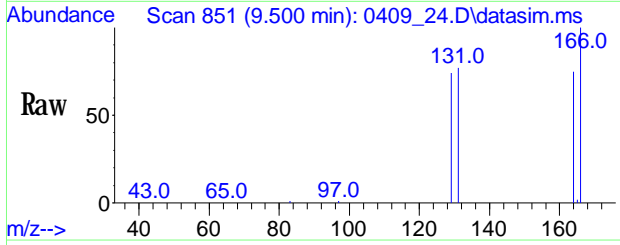
#87
 Carbon Tetrachloride(sim)
 Conc: 8S 0.084 ppbv
 RT: 7.696 min Scan# 617
 Delta R.T. -0.008 min
 Lab File: 0409_24.D
 Acq: 09 Apr 2019 08:41 pm

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	1768		
119	88.9	76.6		115.0
121	32.6	24.6		36.8



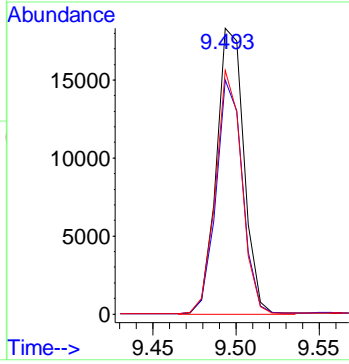
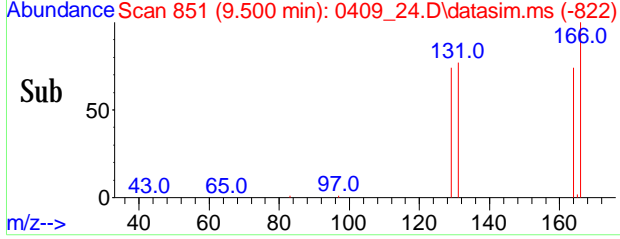


#103
 Tetrachloroethene (sim)
 Conc: 8S 0.898 ppbv
 RT: 9.498 min Scan# 851
 Delta R.T. 0.000 min
 Lab File: 0409_24.D
 Acq: 09 Apr 2019 08:41 pm



Tgt Ion: 166 Resp: 15240

Ion	Ratio	Lower	Upper
166	100		
164	80.2	57.7	97.7
129	86.9	48.6	88.6



1
AIR ANALYSIS DATA SHEET

CLIENT ID

IA-3

Client:	WALDENE	Lab:	Phoenix Env. Labs
SDG No.:	GCC90508	Lab Sample ID:	CC90516
Canister:	23352	Lab File ID:	0409_25.D
Instrument:	CHEM20	Column:	RTX-1 60M
Purge Volume	200 (cc)	Date Received:	04/08/19
Matrix:	AIR	Date Analyzed:	04/09/19
		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	0.464		0.202	0.202	r
74-87-3	Chloromethane	0.625		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	8.80	S	0.531	0.531	r
67-64-1	Acetone	5.98	S	0.421	0.421	r
75-69-4	Trichlorofluoromethane	0.263		0.178	0.178	r
67-63-0	Isopropylalcohol	1.02	S	0.407	0.407	r
107-13-1	Acrylonitrile	0.461	U	0.461	0.461	r
75-09-2	Methylene Chloride	0.864	U	0.864	0.864	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	0.687		0.339	0.339	r
110-54-3	Hexane	0.666	S	0.284	0.284	r
141-78-6	Ethyl acetate	0.278	U	0.278	0.278	r
109-99-9	Tetrahydrofuran	1.24		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	0.335		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	0.862		0.266	0.266	r
591-78-6	2-Hexanone(MBK)	0.244	U	0.244	0.244	r
127-18-4	Tetrachloroethene	1.14		0.037	0.037	r
630-20-6	1,1,1,2-Tetrachloroethane	0.146	U	0.146	0.146	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
179601-23-1	m,p-Xylene	0.870		0.230	0.230	r
100-42-5	Styrene	0.249		0.235	0.235	r
95-47-6	o-Xylene	0.387		0.230	0.230	r
98-82-8	Isopropylbenzene	0.204	U	0.204	0.204	r
622-96-8	4-Ethyltoluene	0.713		0.204	0.204	r
108-67-8	1,3,5-Trimethylbenzene	0.752		0.204	0.204	r
95-63-6	1,2,4-Trimethylbenzene	2.61		0.204	0.204	r
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.143	U	0.143	0.143	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

IA-3

Client: WALDENE Lab: Phoenix Env. Labs

SDG No.: GCC90508 Lab Sample ID: CC90516

Canister: 23352 Lab File ID: 0409_25.D

Instrument: CHEM20 Column: RTX-1 60M Date Received: 04/08/19

Purge Volume 200 (cc) Date Analyzed: 04/09/19

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
75-01-4	Vinyl Chloride(sim)	0.078	U	0.078	0.078	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)	0.077		0.032	0.032	r
75-35-4	1,1-Dichloroethene(sim)	0.051	U	0.051	0.051	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)	0.051	U	0.051	0.051	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)	0.041		0.037	0.037	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
79-34-5	1,1,1,2-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:\AIR2019\CHEM20\04APR\09\
 Data File : 0409_25.D
 Acq On : 09 Apr 2019 09:22 pm
 Operator : CORTEX\ms
 Client ID : IA-3
 Lab ID : CC90516
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 10 09:35:56 2019
 Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_0409.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Wed Apr 10 09:07:16 2019
 Response via : Initial Calibration

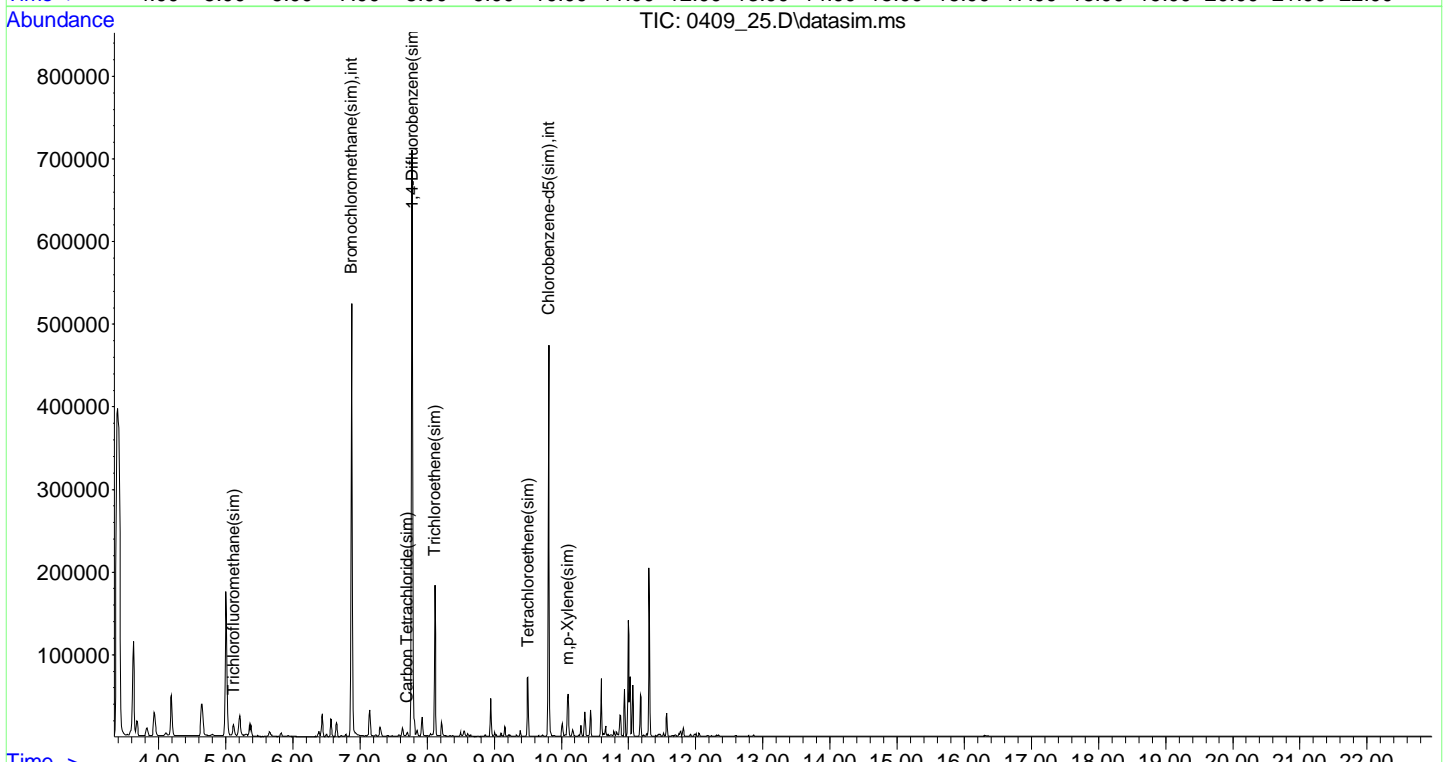
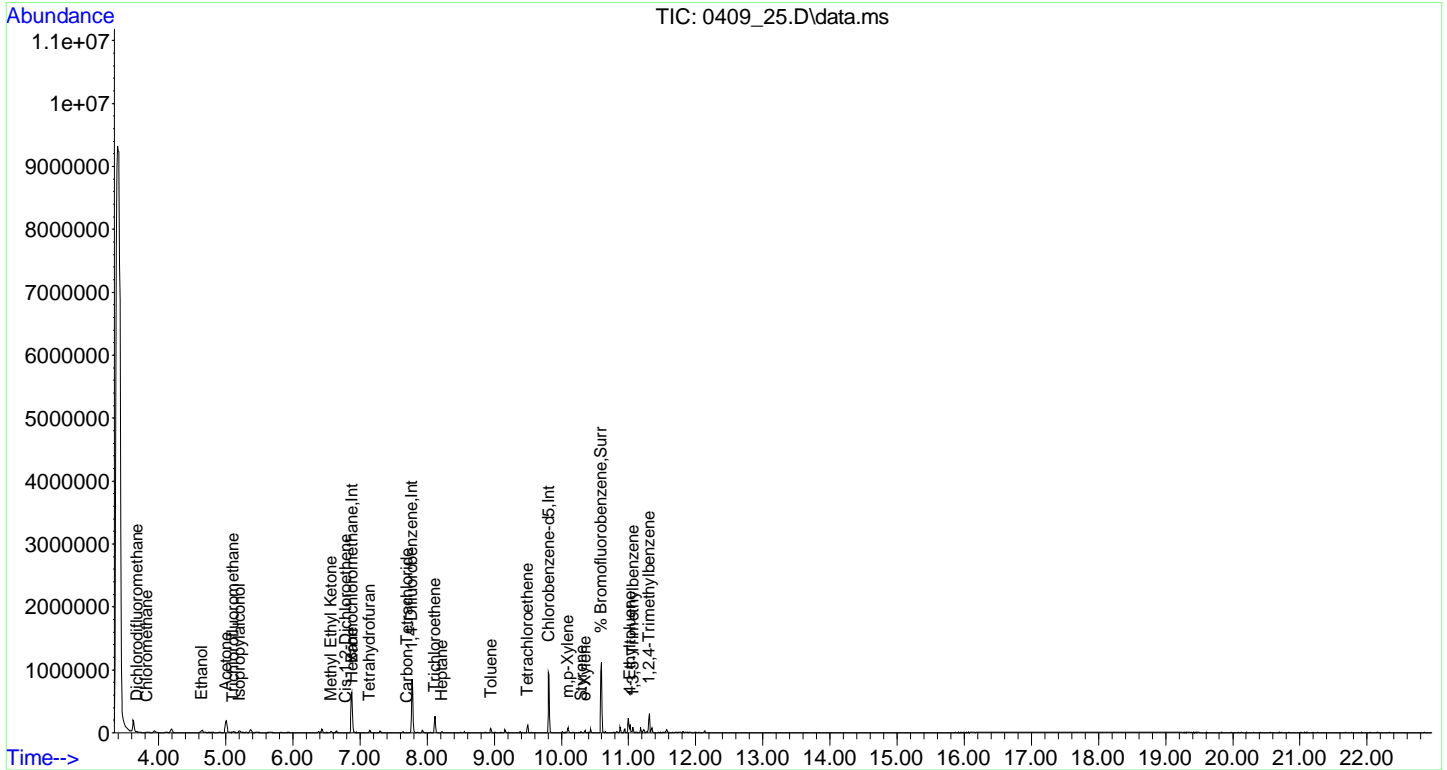
Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
Internal Standards						
1) Bromchloromethane	6.879	130	119780	10.000	ng	0.00
36) 1,4-Difluorobenzene	7.772	114	382989	10.000	ng	0.00
53) Chlorobenzene-d5	9.807	82	186262	10.000	ng	# 0.00
80) Bromchloromethane(sim)	6.874	130	163336	10.000	ng	# 0.00
94) 1,4-Difluorobenzene(sim)	7.775	114	438358	10.000	ng	0.00
104) Chlorobenzene-d5(sim)	9.810	82	188778	10.000	ng	# 0.00
System Monitoring Compounds						
62) % Bromfluorobenzene	10.596	95	252591	10.344	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	103.40%
Target Compounds						
						Qvalue
3) Dichlorodifluoromethane	3.678	85	14241	0.464	ppbv#	95
4) Chloromethane	3.824	50	8016	0.625	ppbv	93
11) Ethanol	4.644	45	45367	8.802	ppbv	96
12) Acetone	5.009	43	160129	5.979	ppbv#	79
13) Trichlorofluoromethane	5.114	101	10552	0.263	ppbv	94
14) Isopropylalcohol	5.203	45	28681	1.016	ppbv#	92
25) Methyl Ethyl Ketone	6.568	43	23151	0.687	ppbv#	76
26) Cis-1,2-Dichloroethene	6.786	61	1065	0.054	ppbv#	69
27) Hexane	6.887	57	12899	0.666	ppbv#	74
30) Tetrahydrofuran	7.142	42	17590	1.241	ppbv#	58
34) Carbon Tetrachloride	7.704	117	1629	0.072	ppbv	98
39) Trichloroethene	8.111	130	645	0.045	ppbv#	88
43) Heptane	8.221	43	6479	0.335	ppbv#	63
48) Toluene	8.948	91	27075	0.862	ppbv#	99
52) Tetrachloroethene	9.497	166	17403	1.144	ppbv#	91
57) m p-Xylene	10.095	91	29281	0.869	ppbv	92
59) Styrene	10.292	104	6080	0.249	ppbv#	81
61) o-Xylene	10.353	91	13638	0.387	ppbv	96
66) 4-Ethyltoluene	11.020	105	33268m	0.713	ppbv	95
67) 1,3,5-Trimethylbenzene	11.066	105	30209	0.752	ppbv#	93
68) 1,2,4-Trimethylbenzene	11.309	105	102462	2.605	ppbv#	82
84) Trichlorofluoromethane...	5.117	101	12562	0.230	ppbv	99
87) Carbon Tetrachloride(sim)	7.704	117	1629	0.077	ppbv	98
92) Cis-1,2-Dichloroethene...	6.789	61	1214	0.049	ppbv#	76
97) Trichloroethene(sim)	8.111	130	645	0.041	ppbv	97
103) Tetrachloroethene(sim)	9.497	166	17403	1.011	ppbv	91
106) m p-Xylene(sim)	10.098	91	30900	0.873	ppbv#	92

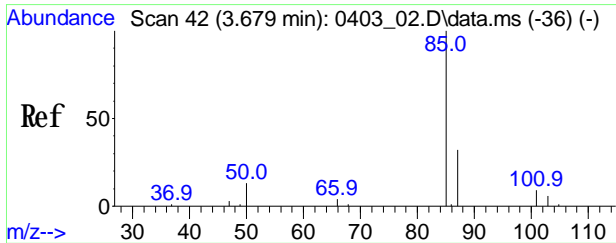
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2019\CHEM20\04APR\09\
Data File : 0409_25.D
Acq On : 09 Apr 2019 09:22 pm
Operator : CORTEX\nms
Client ID : IA-3
Lab ID : CC90516
ALS Vial : 1 Sample Multiplier: 1

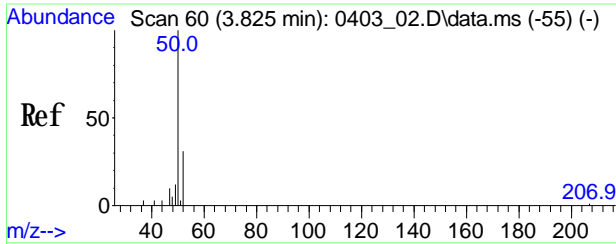
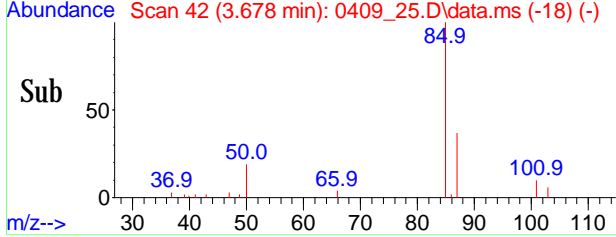
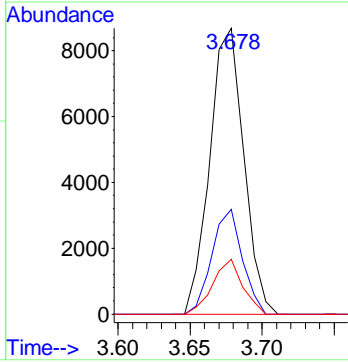
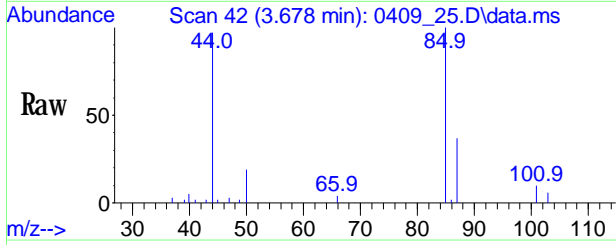
Quant Time: Apr 10 09:35:56 2019
Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_0409.M
Quant Title : VOA Standards for 5 point calibration
Last Update : Wed Apr 10 09:07:16 2019
Response via : Initial Calibration





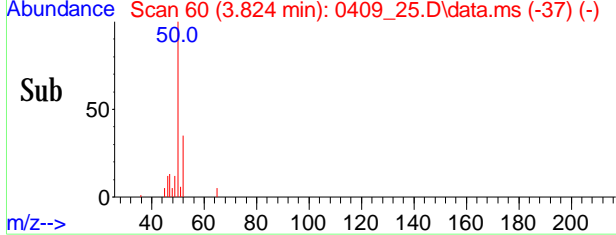
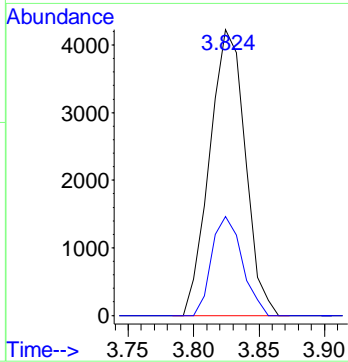
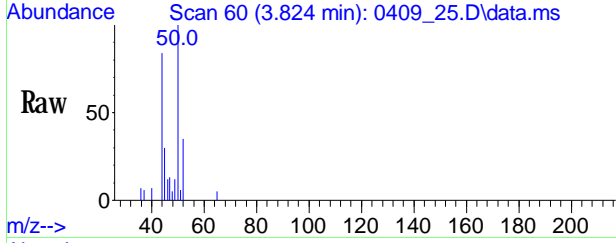
#3
Dichlorodifluoromethane
 Conc: 8S 0.464 ppby
 RT: 3.678 min Scan# 42
 Delta R.T. -0.008 min
 Lab File: 0409_25.D
 Acq: 09 Apr 2019 09:22 pm

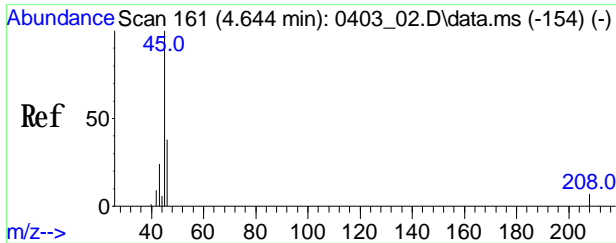
Tgt Ion	Ratio	Resp	Upper
85	100	14241	
87	32.8	25.6	38.4
50	16.9	9.4	14.2#



#4
Chloromethane
 Conc: 8S 0.625 ppby
 RT: 3.824 min Scan# 60
 Delta R.T. -0.016 min
 Lab File: 0409_25.D
 Acq: 09 Apr 2019 09:22 pm

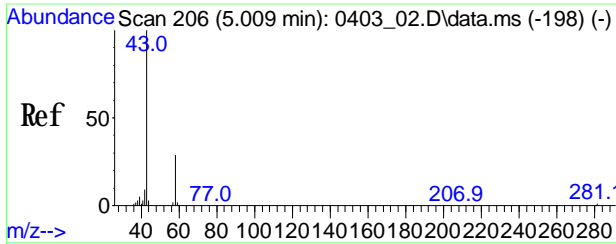
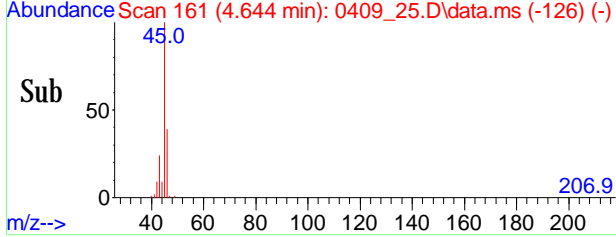
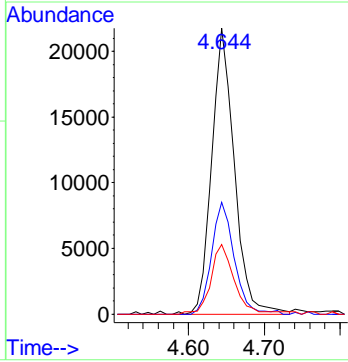
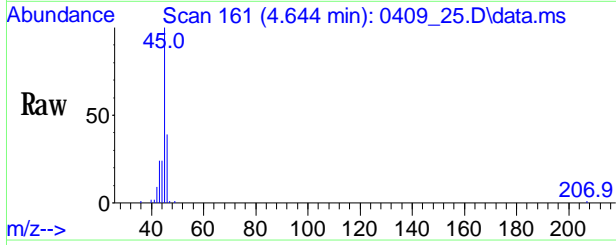
Tgt Ion	Ratio	Resp	Upper
50	100	8016	
52	29.7	13.6	53.6





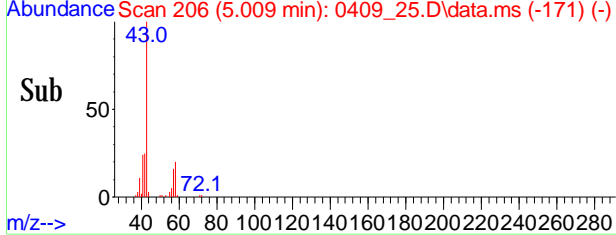
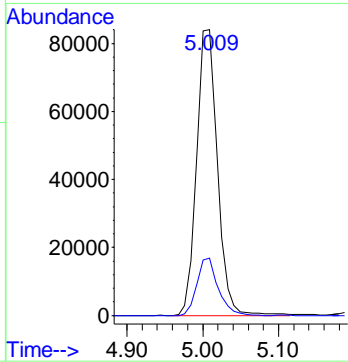
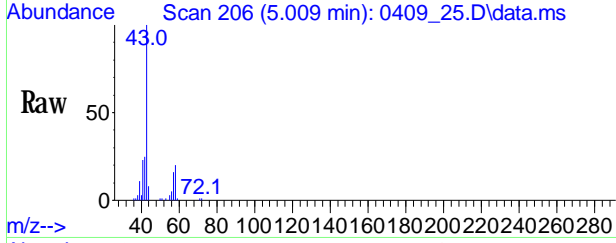
#11
 Ethanol
 Conc: 8S 8.802 ppbv
 RT: 4.644 min Scan# 161
 Delta R.T. -0.016 min
 Lab File: 0409_25.D
 Acq: 09 Apr 2019 09:22 pm

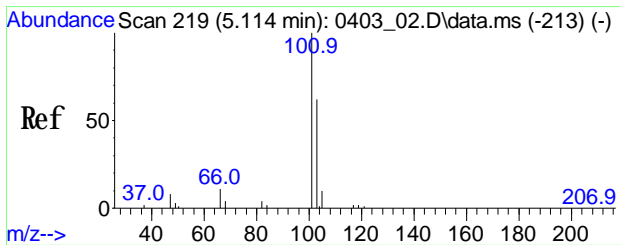
Tgt Ion	Ratio	Resp	Lower	Upper
45	100	45367		
46	38.8	29.9		44.9
43	24.7	22.7		34.1



#12
 Acetone
 Conc: 8S 5.979 ppbv
 RT: 5.009 min Scan# 206
 Delta R.T. -0.016 min
 Lab File: 0409_25.D
 Acq: 09 Apr 2019 09:22 pm

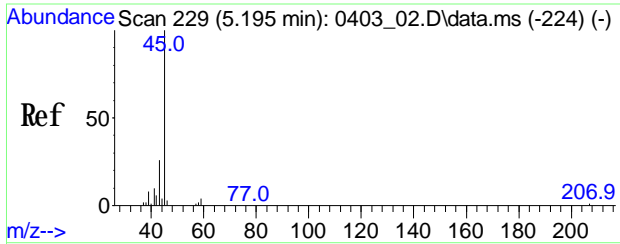
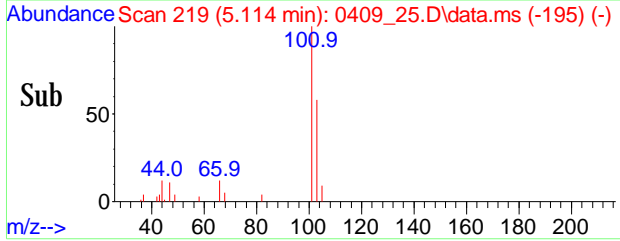
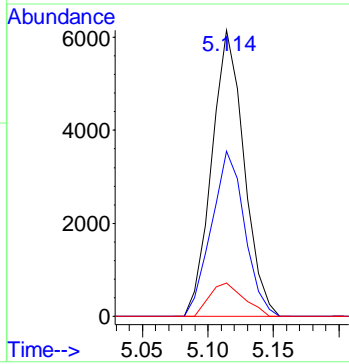
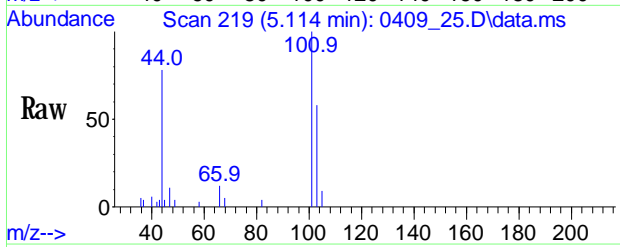
Tgt Ion	Ratio	Resp	Lower	Upper
43	100	160129		
58	20.4	25.9		38.9#





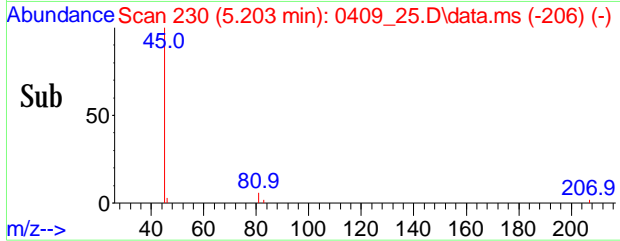
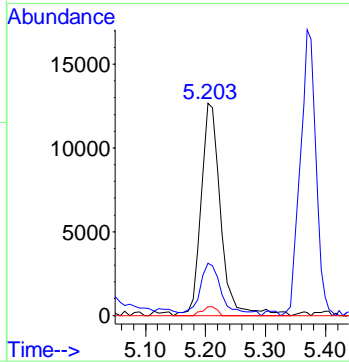
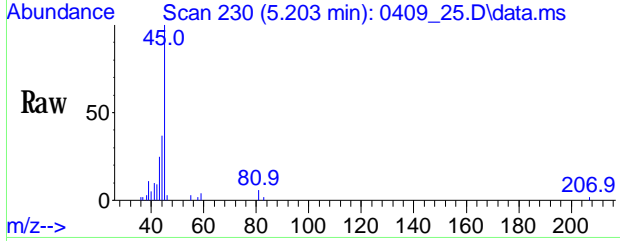
#13
 Trichlorofluoromethane
 Conc: 8S 0.263 ppbv
 RT: 5.114 min Scan# 219
 Delta R.T. -0.008 min
 Lab File: 0409_25.D
 Acq: 09 Apr 2019 09:22 pm

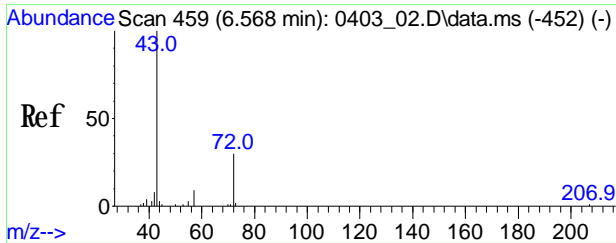
Tgt Ion	Ratio	Resp	Lower	Upper
101	100	10552		
103	59.4	51.6	77.4	
66	12.3	9.4	14.0	



#14
 Isopropylalcohol
 Conc: 8S 1.016 ppbv
 RT: 5.203 min Scan# 230
 Delta R.T. -0.009 min
 Lab File: 0409_25.D
 Acq: 09 Apr 2019 09:22 pm

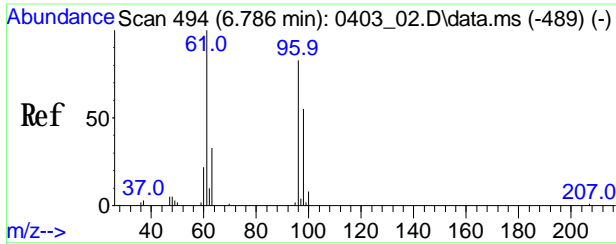
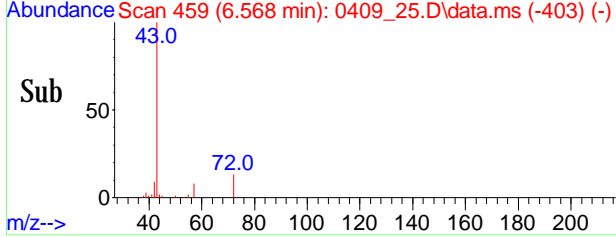
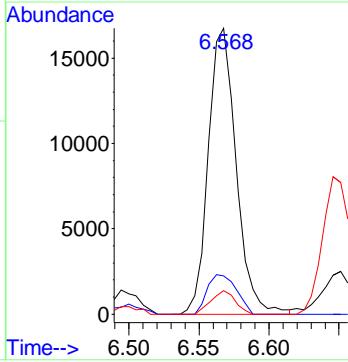
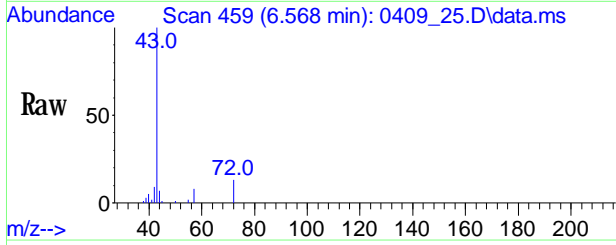
Tgt Ion	Ratio	Resp	Lower	Upper
45	100	28681		
43	27.5	18.6	27.8	
59	3.1	3.7	5.5#	





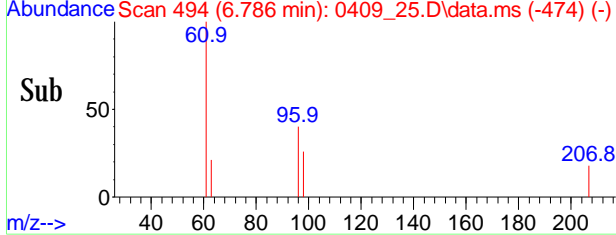
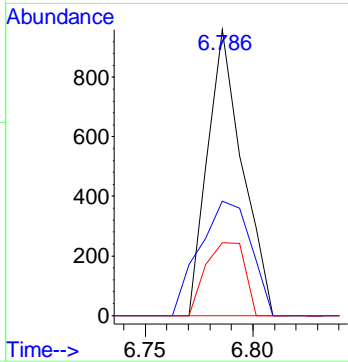
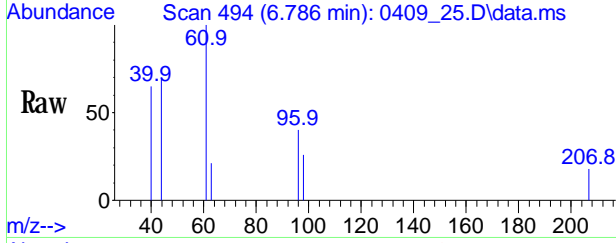
#25
 Methyl Ethyl Ketone
 Conc: 8S 0.687 ppbv
 RT: 6.568 min Scan# 459
 Delta R.T. -0.005 min
 Lab File: 0409_25.D
 Acq: 09 Apr 2019 09:22 pm

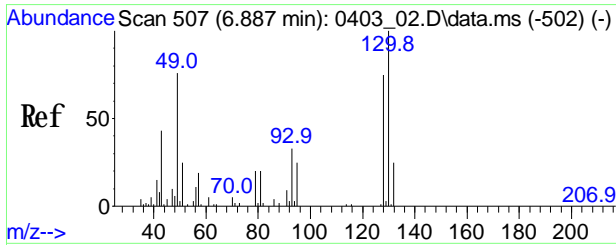
Tgt Ion	Ratio	Resp	Lower	Upper
43	100	23151		
72	14.4	24.6		37.0#
57	7.1	7.4		11.2#



#26
 Cis-1,2-Dichloroethene
 Conc: 8S Below Cal
 RT: 6.786 min Scan# 494
 Delta R.T. -0.008 min
 Lab File: 0409_25.D
 Acq: 09 Apr 2019 09:22 pm

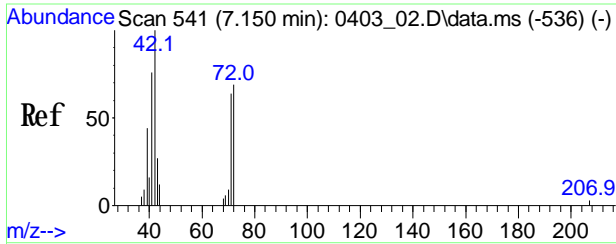
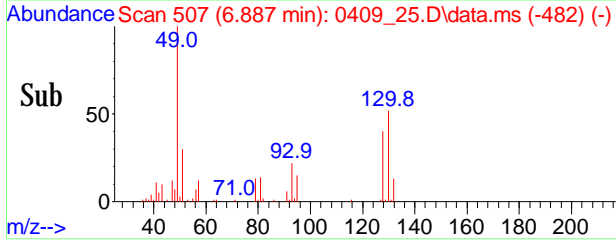
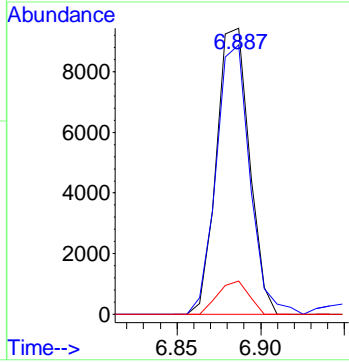
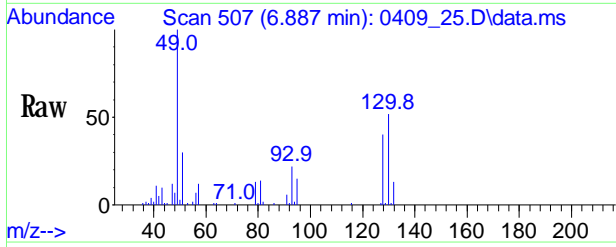
Tgt Ion	Ratio	Resp	Lower	Upper
61	100	1065		
96	59.2	67.8		101.8#
98	28.8	43.8		65.6#





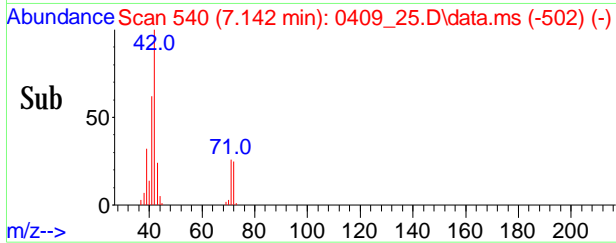
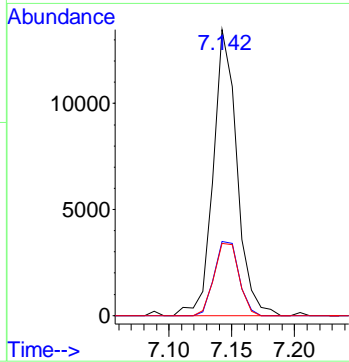
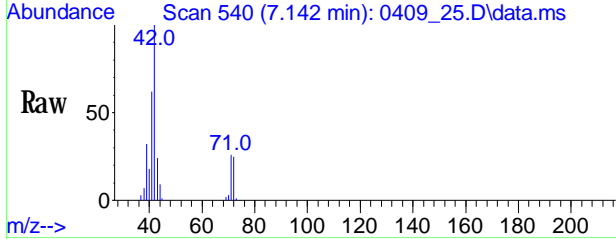
#27
 Hexane
 Conc: 8S 0.666 ppbv
 RT: 6.887 min Scan# 507
 Delta R.T. -0.000 min
 Lab File: 0409_25.D
 Acq: 09 Apr 2019 09:22 pm

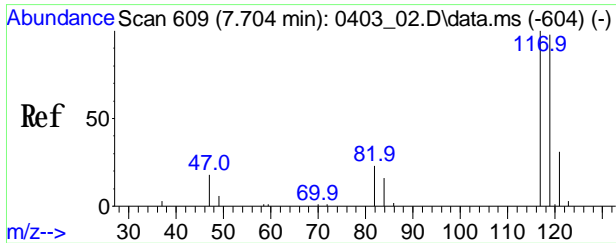
Tgt Ion	Ratio	Resp	Lower	Upper
57	100	12899		
41	96.2	58.9		88.3#
86	10.8	16.4		24.6#



#30
 Tetrahydrofuran
 Conc: 8S 1.241 ppbv
 RT: 7.142 min Scan# 540
 Delta R.T. -0.008 min
 Lab File: 0409_25.D
 Acq: 09 Apr 2019 09:22 pm

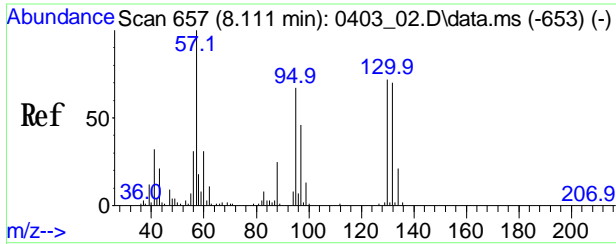
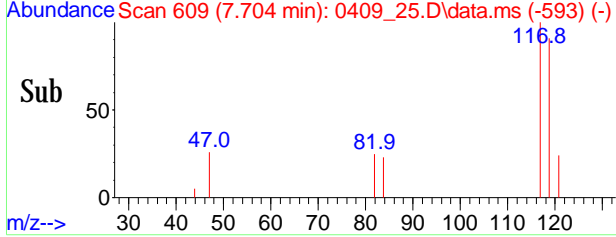
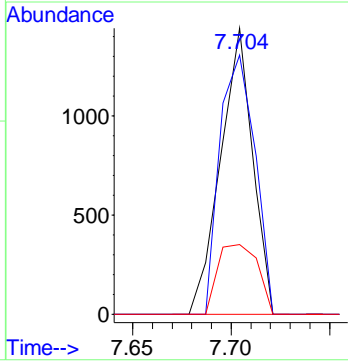
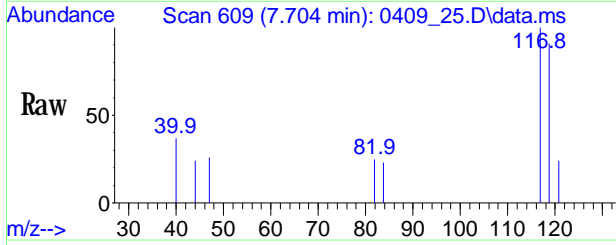
Tgt Ion	Ratio	Resp	Lower	Upper
42	100	17590		
71	26.8	45.8		68.6#
72	26.5	46.5		69.7#





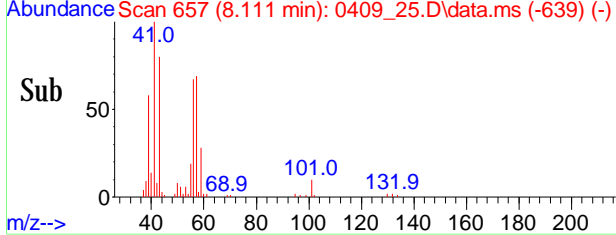
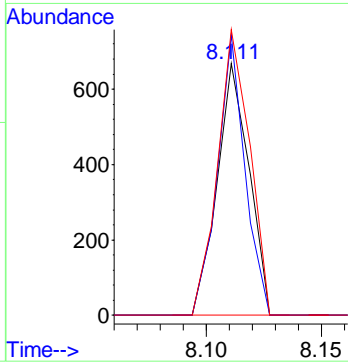
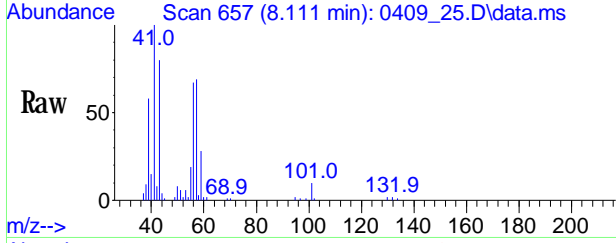
#34
 Carbon Tetrachloride
 Conc: 8S Below Cal
 RT: 7.704 min Scan# 609
 Delta R.T. 0.000 min
 Lab File: 0409_25.D
 Acq: 09 Apr 2019 09:22 pm

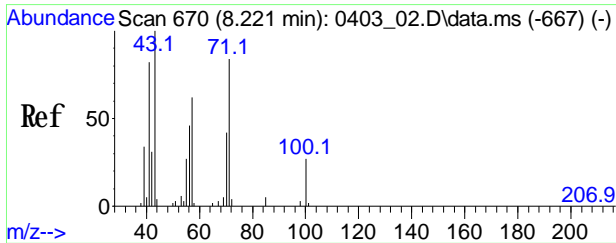
Tgt Ion	Ratio	Resp	Lower	Upper
117	100	1629		
119	98.8	75.8	115.8	
121	30.3	10.7	50.7	



#39
 Trichloroethene
 Conc: 8S Below Cal
 RT: 8.111 min Scan# 657
 Delta R.T. -0.000 min
 Lab File: 0409_25.D
 Acq: 09 Apr 2019 09:22 pm

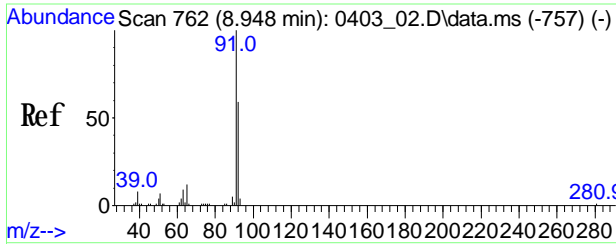
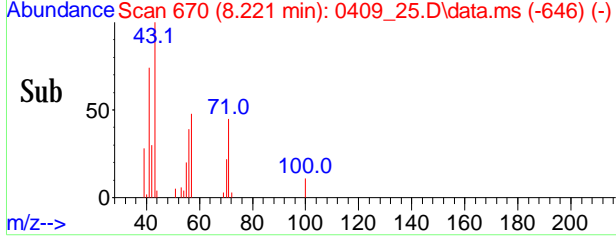
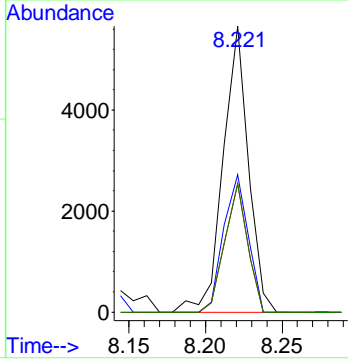
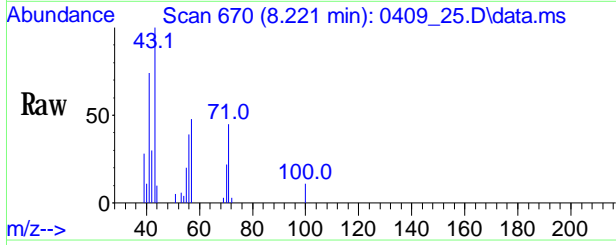
Tgt Ion	Ratio	Resp	Lower	Upper
130	100	645		
132	95.8	78.0	117.0	
95	113.6	73.0	109.4#	





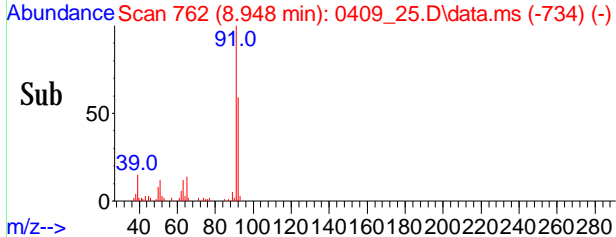
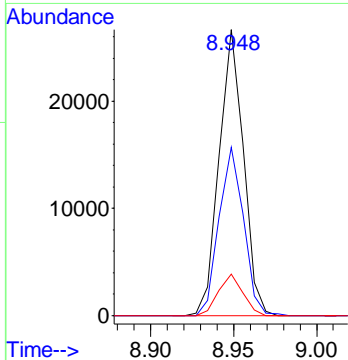
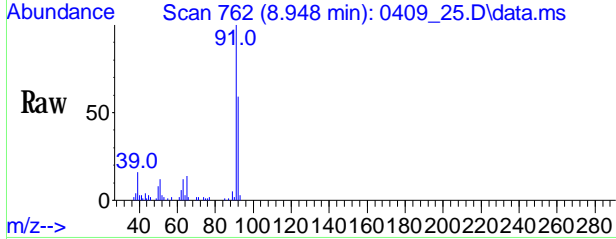
#43
 Heptane
 Conc: 8S 0.335 ppby
 RT: 8.221 min Scan# 670
 Delta R.T. 0.000 min
 Lab File: 0409_25.D
 Acq: 09 Apr 2019 09:22 pm

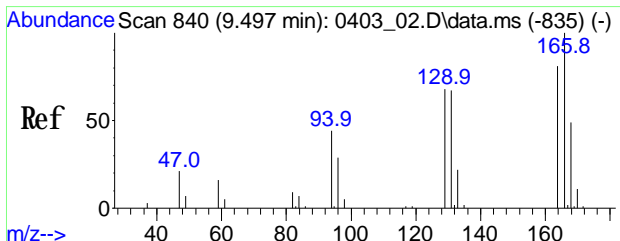
Tgt Ion	Ratio	Resp	Lower	Upper
43	100	6479		
57	46.3	49.7	74.5#	
71	40.3	62.2	93.2#	
71	40.3	62.2	93.2#	



#48
 Toluene
 Conc: 8S 0.862 ppby
 RT: 8.948 min Scan# 762
 Delta R.T. -0.000 min
 Lab File: 0409_25.D
 Acq: 09 Apr 2019 09:22 pm

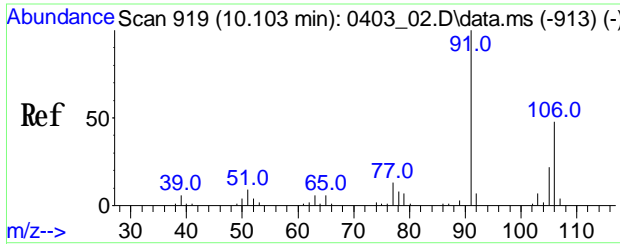
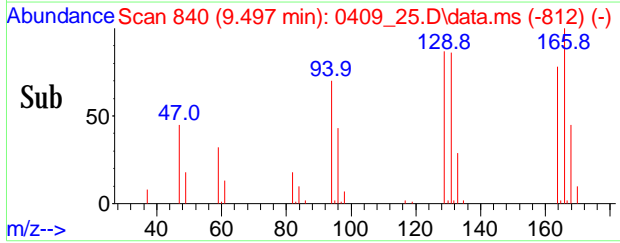
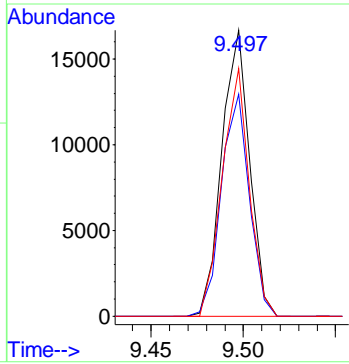
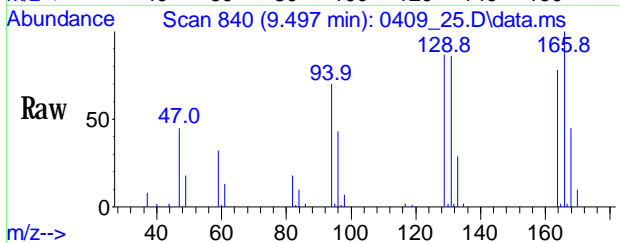
Tgt Ion	Ratio	Resp	Lower	Upper
91	100	27075		
92	59.5	47.7	71.5	
65	14.4	9.3	13.9#	





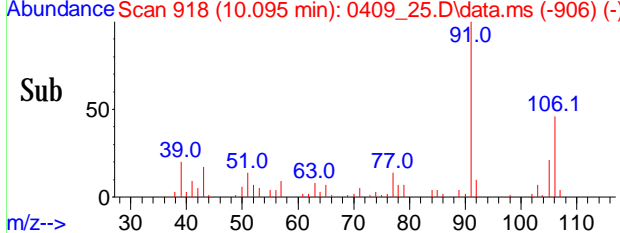
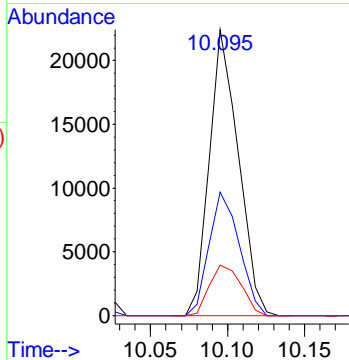
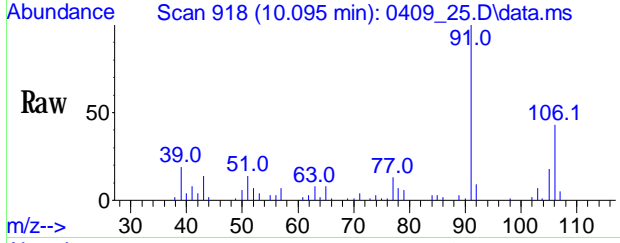
#52
 Tetrachloroethene
 Conc: 8S 1.144 ppbv
 RT: 9.497 min Scan# 840
 Delta R.T. -0.000 min
 Lab File: 0409_25.D
 Acq: 09 Apr 2019 09:22 pm

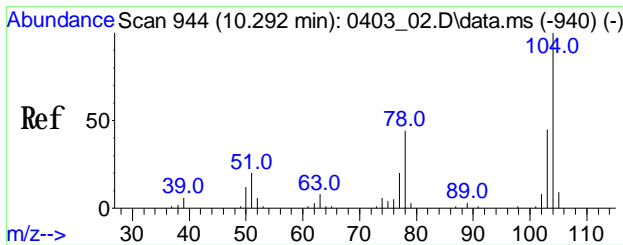
Tgt Ion	Ratio	Resp	Lower	Upper
166	100	17403		
164	78.2	62.2	93.2	
129	84.2	54.9	82.3#	



#57
 m p-Xylene
 Conc: 8S 0.869 ppbv
 RT: 10.095 min Scan# 918
 Delta R.T. -0.008 min
 Lab File: 0409_25.D
 Acq: 09 Apr 2019 09:22 pm

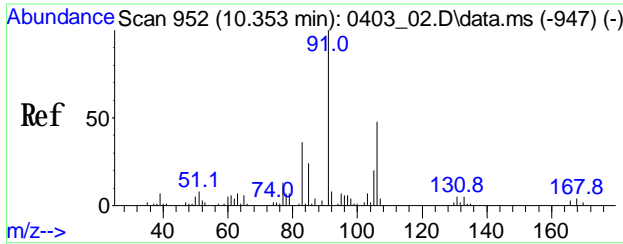
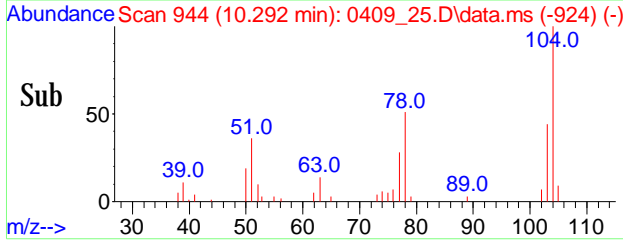
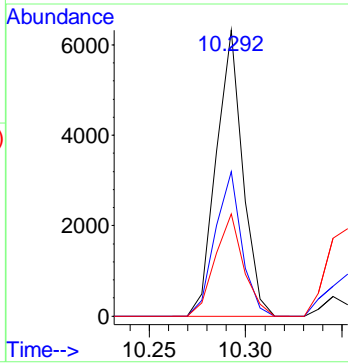
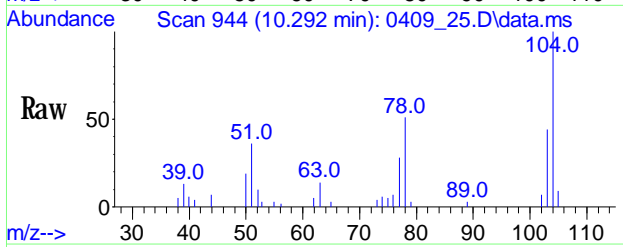
Tgt Ion	Ratio	Resp	Lower	Upper
91	100	29281		
106	45.0	40.9	61.3	
105	19.2	17.8	26.8	





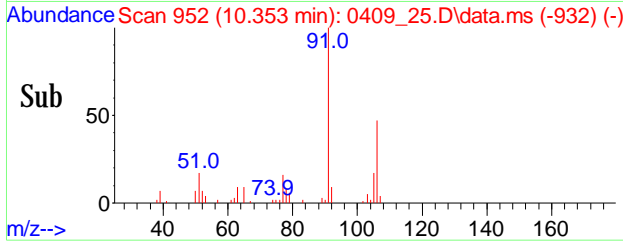
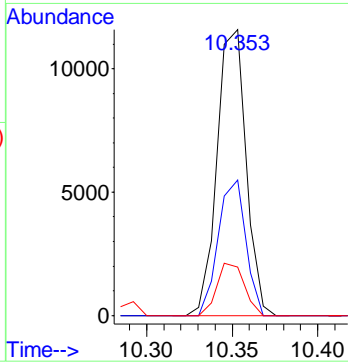
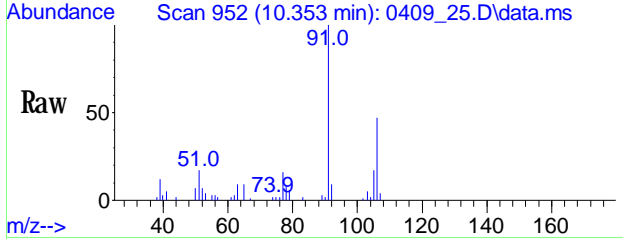
#59
 Styrene
 Conc: 8S 0.249 ppbv
 RT: 10.292 min Scan# 944
 Delta R.T. 0.000 min
 Lab File: 0409_25.D
 Acq: 09 Apr 2019 09:22 pm

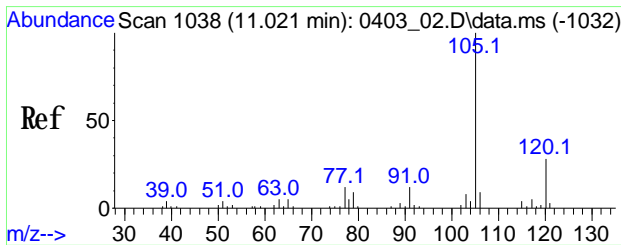
Tgt Ion	Ratio	Resp	Lower	Upper
104	100	6080		
78	50.9	35.9	53.9	
51	38.5	15.8	23.8#	



#61
 o-Xylene
 Conc: 8S 0.387 ppbv
 RT: 10.353 min Scan# 952
 Delta R.T. -0.000 min
 Lab File: 0409_25.D
 Acq: 09 Apr 2019 09:22 pm

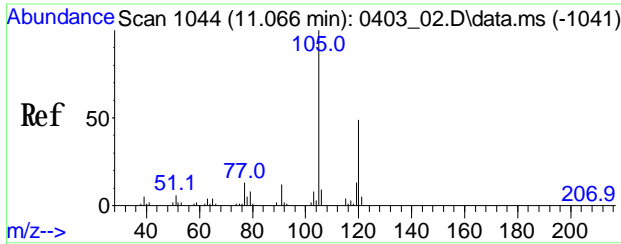
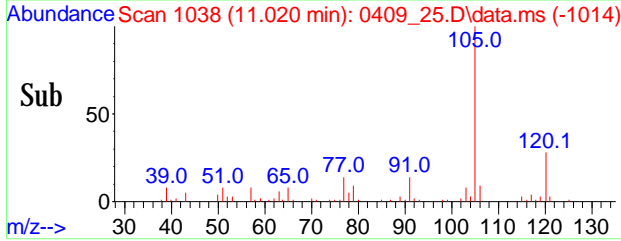
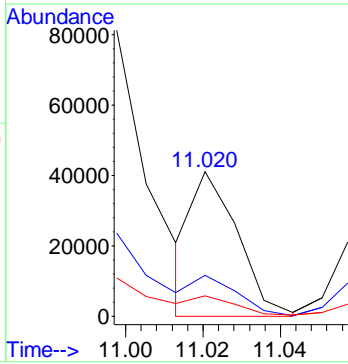
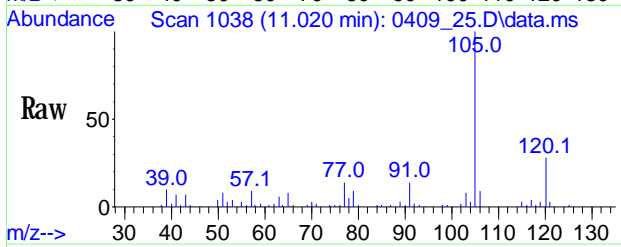
Tgt Ion	Ratio	Resp	Lower	Upper
91	100	13638		
106	44.8	38.3	57.5	
105	17.3	15.2	22.8	





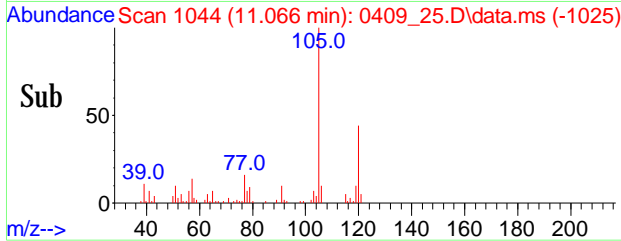
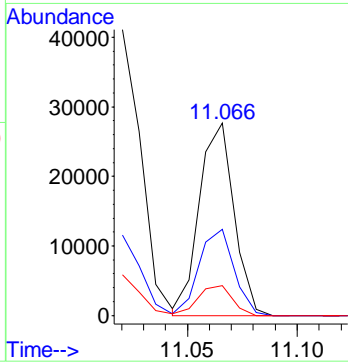
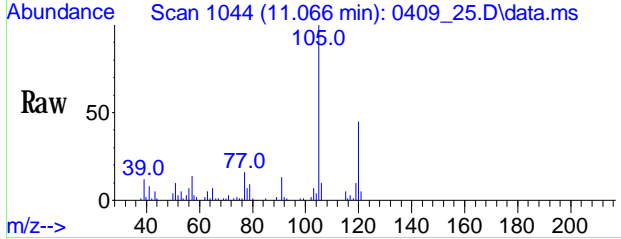
#66
 4-Ethyltoluene
 Conc: 8S 0.713 ppbv
 RT: 11.020 min Scan# 1038
 Delta R.T. -0.000 min
 Lab File: 0409_25.D
 Acq: 09 Apr 2019 09:22 pm

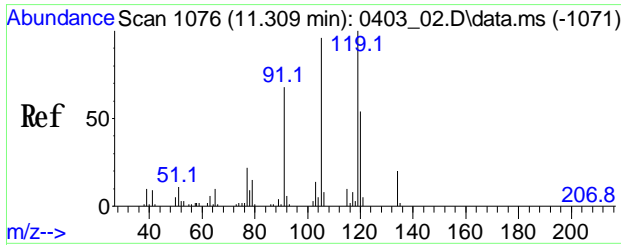
Tgt Ion	Ratio	Resp	Upper
105	100	33268	Lower
120	106.2	25.0	37.4#
77	51.7	9.4	14.0#



#67
 1,3,5-Trimethylbenzene
 Conc: 8S 0.752 ppbv
 RT: 11.066 min Scan# 1044
 Delta R.T. -0.000 min
 Lab File: 0409_25.D
 Acq: 09 Apr 2019 09:22 pm

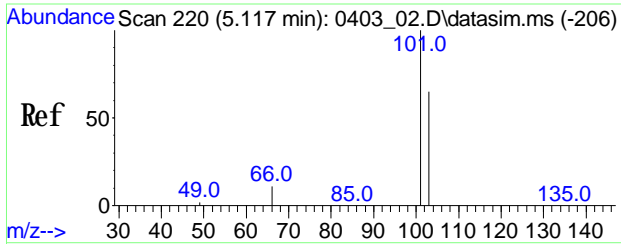
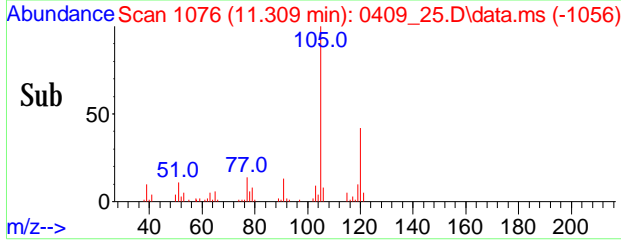
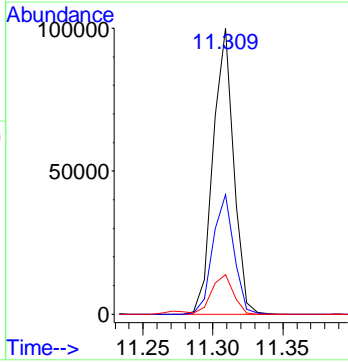
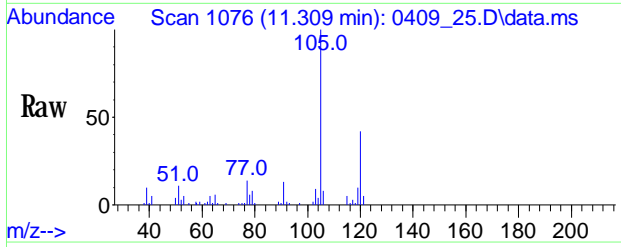
Tgt Ion	Ratio	Resp	Upper
105	100	30209	Lower
120	45.1	39.7	59.5
77	15.4	10.2	15.4#





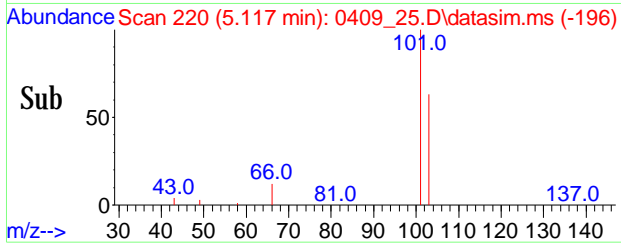
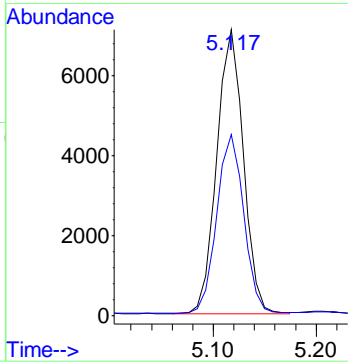
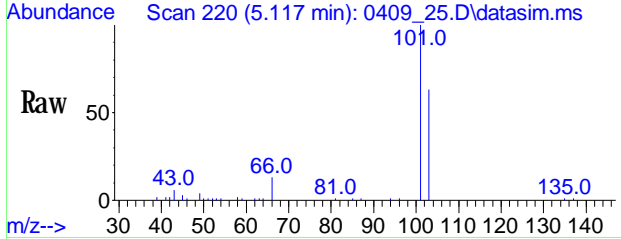
#68
 1,2,4-Trimethylbenzene
 Conc: 8S 2.605 ppby
 RT: 11.309 min Scan# 1076
 Delta R.T. -0.000 min
 Lab File: 0409_25.D
 Acq: 09 Apr 2019 09:22 pm

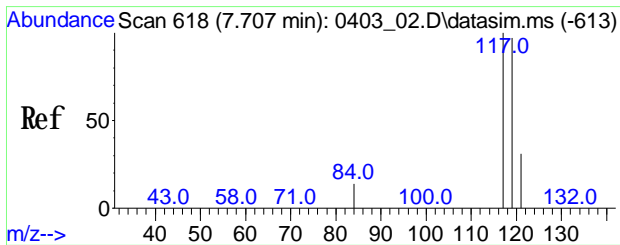
Tgt Ion	Ratio	Resp	Upper
105	100	102462	Upper
120	42.7	44.5	66.7#
77	15.6	19.7	29.5#



#84
 Trichlorofluoromethane (sim)
 Conc: 8S 0.230 ppby
 RT: 5.117 min Scan# 220
 Delta R.T. -0.008 min
 Lab File: 0409_25.D
 Acq: 09 Apr 2019 09:22 pm

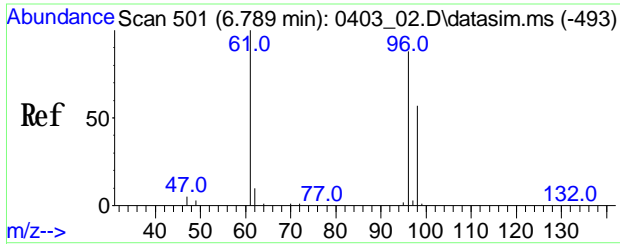
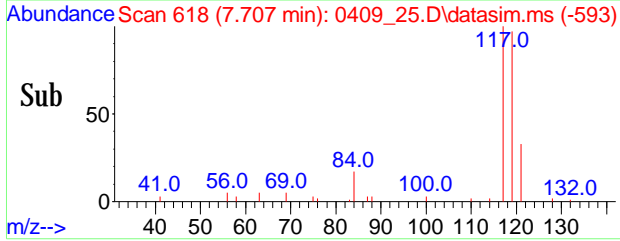
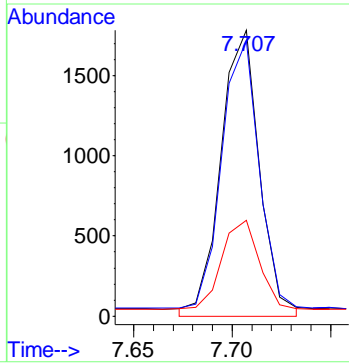
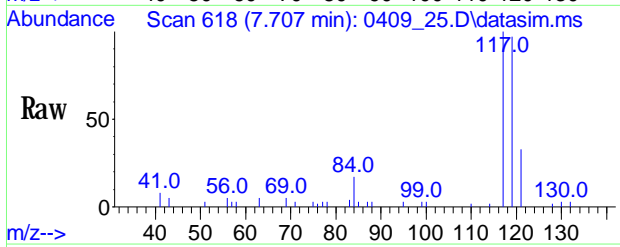
Tgt Ion	Ratio	Resp	Upper
101	100	12562	Upper
103	63.7	51.9	77.9





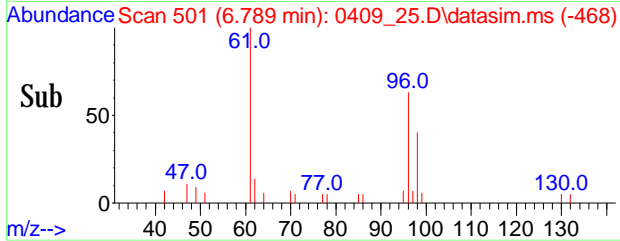
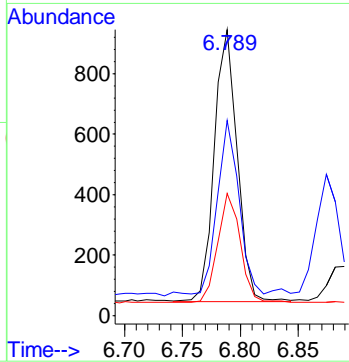
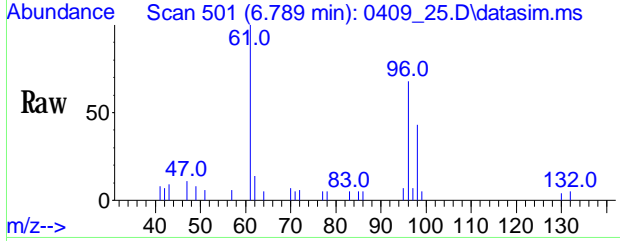
#87
 Carbon Tetrachloride(sim)
 Conc: 8S 0.077 ppbv
 RT: 7.704 min Scan# 618
 Delta R.T. -0.000 min
 Lab File: 0409_25.D
 Acq: 09 Apr 2019 09:22 pm

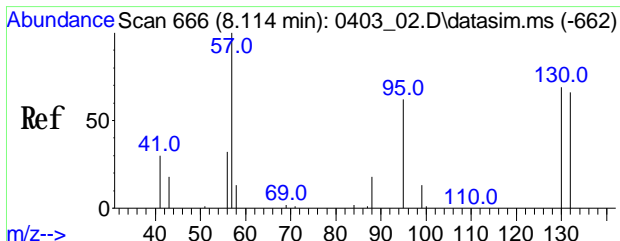
Tgt Ion	Ratio	Resp	Lower	Upper
117	100	1629		
119	98.8	76.6	115.0	
121	30.3	24.6	36.8	



#92
 Cis-1,2-Dichloroethene(sim)
 Conc: 8S 0.049 ppbv
 RT: 6.789 min Scan# 501
 Delta R.T. -0.000 min
 Lab File: 0409_25.D
 Acq: 09 Apr 2019 09:22 pm

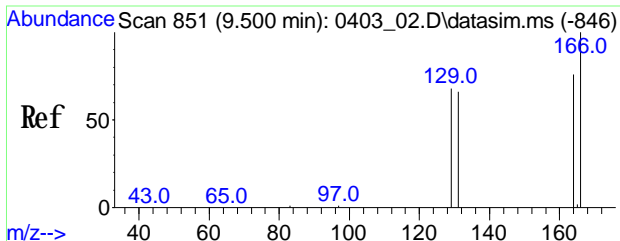
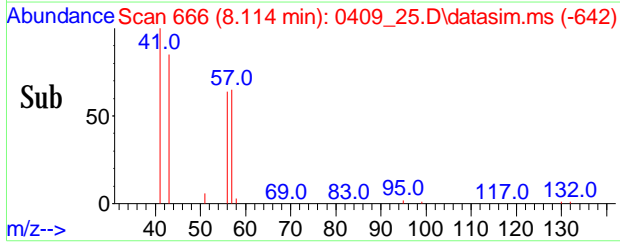
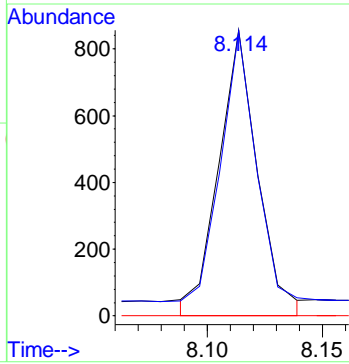
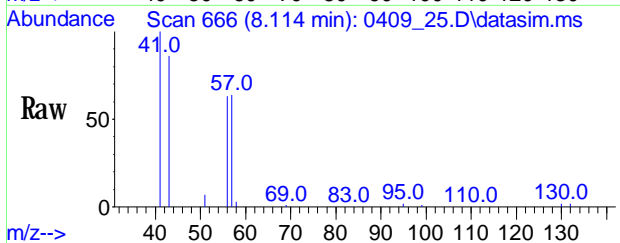
Tgt Ion	Ratio	Resp	Lower	Upper
61	100	1214		
96	64.0	69.7	104.5#	
98	39.6	45.3	67.9#	





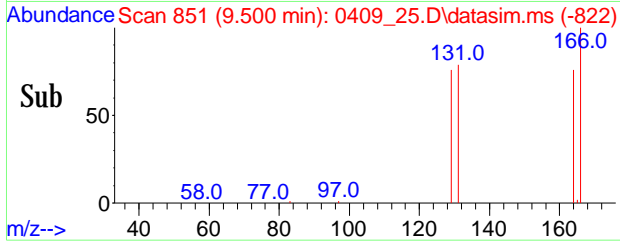
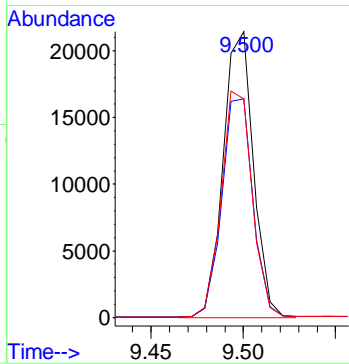
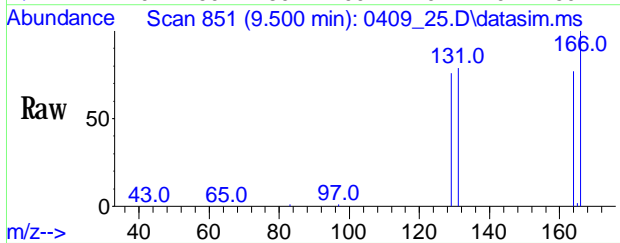
#97
 Trichloroethene(sim)
 Conc: 8S 0.041 ppbv
 RT: 8.111 min Scan# 666
 Delta R.T. 0.000 min
 Lab File: 0409_25.D
 Acq: 09 Apr 2019 09:22 pm

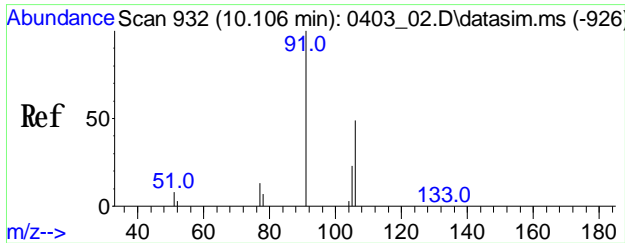
Tgt Ion	Ratio	Resp	Lower	Upper
130	100	645		
132	95.8	78.0		117.0
97	63.1	47.2		70.8



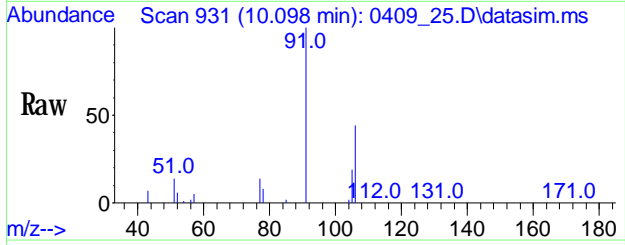
#103
 Tetrachloroethene(sim)
 Conc: 8S 1.011 ppbv
 RT: 9.497 min Scan# 851
 Delta R.T. -0.000 min
 Lab File: 0409_25.D
 Acq: 09 Apr 2019 09:22 pm

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	17403		
164	78.2	57.7		97.7
129	84.2	48.6		88.6



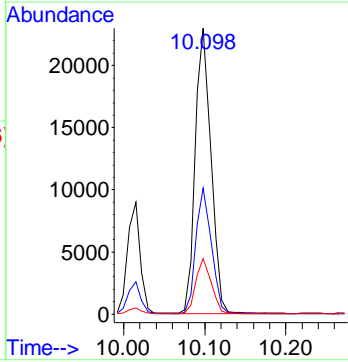
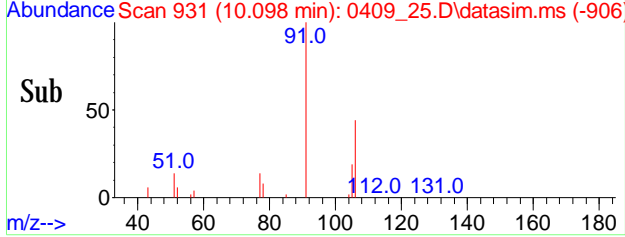


#106
 m p-Xylene (sim)
 Conc: 85 0.873 ppbv
 RT: 10.098 min Scan# 931
 Delta R.T. -0.008 min
 Lab File: 0409_25.D
 Acq: 09 Apr 2019 09:22 pm



Tgt Ion: 91 Resp: 30900

Ion	Ratio	Lower	Upper
91	100		
106	43.3	44.3	54.1#
105	18.7	17.7	26.5



1
AIR ANALYSIS DATA SHEET

CLIENT ID

SS-2 5X

Client:	<u>WALDENE</u>	Lab:	<u>Phoenix Env. Labs</u>
SDG No.:	<u>GCC90508</u>	Lab Sample ID:	<u>CC90517 5X</u>
Canister:	<u>219</u>	Lab File ID:	<u>0409_35.D</u>
Instrument:	<u>CHEM20</u>	Column:	<u>RTX-1 60M</u>
Purge Volume	<u>200</u> (cc)	Date Received:	<u>04/08/19</u>
Matrix:	<u>AIR</u>	Date Analyzed:	<u>04/10/19</u>
		Dilution Factor:	<u>5</u>

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	2.91	U	2.91	2.91	r
75-71-8	Dichlorodifluoromethane	1.01	U	1.01	1.01	r
74-87-3	Chloromethane	2.42	U	2.42	2.42	r
106-99-0	1,3-Butadiene	2.26	U	2.26	2.26	r
75-00-3	Chloroethane	1.90	U	1.90	1.90	r
64-17-5	Ethanol	2.89	S	2.66	2.66	r
67-64-1	Acetone	2.22	S	2.11	2.11	r
67-63-0	Isopropylalcohol	2.04	U	2.04	2.04	r
107-13-1	Acrylonitrile	2.31	U	2.31	2.31	r
75-09-2	Methylene Chloride	4.32	U	4.32	4.32	r
75-15-0	Carbon Disulfide	1.61	U	1.61	1.61	r
156-60-5	Trans-1,2-Dichloroethene	4.43		1.26	1.26	r
1634-04-4	Methyl tert-butyl ether(MTBE)	1.39	U	1.39	1.39	r
78-93-3	Methyl Ethyl Ketone	1.70	U	1.70	1.70	r
156-59-2	Cis-1,2-Dichloroethene	76.4		0.252	0.252	r
110-54-3	Hexane	1.42	U	1.42	1.42	r
67-66-3	Chloroform	17.2		1.02	1.02	r
141-78-6	Ethyl acetate	1.39	U	1.39	1.39	r
109-99-9	Tetrahydrofuran	1.70	U	1.70	1.70	r
71-43-2	Benzene	1.57	U	1.57	1.57	r
110-82-7	Cyclohexane	1.45	U	1.45	1.45	r
79-01-6	Trichloroethene	68.9		0.186	0.186	r
142-82-5	Heptane	1.22	U	1.22	1.22	r
108-10-1	4-Methyl-2-pentanone(MIBK)	1.22	U	1.22	1.22	r
10061-02-6	trans-1,3-Dichloropropene	1.10	U	1.10	1.10	r
108-88-3	Toluene	1.33	U	1.33	1.33	r
591-78-6	2-Hexanone(MBK)	1.22	U	1.22	1.22	r
127-18-4	Tetrachloroethene	3410	E	0.184	0.184	
630-20-6	1,1,1,2-Tetrachloroethane	0.729	U	0.729	0.729	r
108-90-7	Chlorobenzene	1.09	U	1.09	1.09	r
100-41-4	Ethylbenzene	1.15	U	1.15	1.15	r
100-42-5	Styrene	1.17	U	1.17	1.17	r
95-47-6	o-Xylene	1.15	U	1.15	1.15	r
98-82-8	Isopropylbenzene	1.02	U	1.02	1.02	r
622-96-8	4-Ethyltoluene	1.02	U	1.02	1.02	r
108-67-8	1,3,5-Trimethylbenzene	1.02	U	1.02	1.02	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

SS-2 5X

Client: WALDENE Lab: Phoenix Env. Labs

SDG No.: GCC90508 Lab Sample ID: CC90517 5X

Canister: 219 Lab File ID: 0409_35.D

Instrument: CHEM20 Column: RTX-1 60M Date Received: 04/08/19

Purge Volume 200 (cc) Date Analyzed: 04/10/19

Matrix: AIR Dilution Factor: 5

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
95-63-6	1,2,4-Trimethylbenzene	1.02	U	1.02	1.02	r
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.716	U	0.716	0.716	r
75-01-4	Vinyl Chloride(sim)	0.391	U	0.391	0.391	r
74-83-9	Bromomethane(sim)	1.29	U	1.29	1.29	r
75-69-4	Trichlorofluoromethane(sim)	0.891	U	0.891	0.891	r
107-06-2	1,2-Dichloroethane(sim)	1.24	U	1.24	1.24	r
71-55-6	1,1,1-Trichloroethane(sim)	0.917	U	0.917	0.917	r
56-23-5	Carbon Tetrachloride(sim)	0.159	U	0.159	0.159	r
75-35-4	1,1-Dichloroethene(sim)	0.252	U	0.252	0.252	r
76-13-1	Trichlorotrifluoroethane(sim)	0.653	U	0.653	0.653	r
75-34-3	1,1-Dichloroethane(sim)	1.24	U	1.24	1.24	r
78-87-5	1,2-dichloropropane(sim)	1.08	U	1.08	1.08	r
75-27-4	Bromodichloromethane(sim)	0.747	U	0.747	0.747	r
123-91-1	1,4-Dioxane(sim)	1.39	U	1.39	1.39	r
10061-01-5	cis-1,3-Dichloropropene(sim)	1.10	U	1.10	1.10	r
79-00-5	1,1,2-Trichloroethane(sim)	0.917	U	0.917	0.917	r
124-48-1	Dibromochloromethane(sim)	0.587	U	0.587	0.587	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.651	U	0.651	0.651	r
75-25-2	Bromoform(sim)	0.484	U	0.484	0.484	r
179601-23-1	m,p-Xylene(sim)	1.15	U	1.15	1.15	r
79-34-5	1,1,1,2-Tetrachloroethane(sim)	0.729	U	0.729	0.729	r
100-44-7	Benzyl chloride(sim)	0.966	U	0.966	0.966	r
541-73-1	1,3-Dichlorobenzene(sim)	0.832	U	0.832	0.832	r
106-46-7	1,4-Dichlorobenzene(sim)	0.832	U	0.832	0.832	r
135-98-8	sec-Butylbenzene(sim)	0.911	U	0.911	0.911	r
99-87-6	4-Isopropyltoluene(sim)	0.911	U	0.911	0.911	r
95-50-1	1,2-Dichlorobenzene(sim)	0.832	U	0.832	0.832	r
104-51-8	n-Butylbenzene(sim)	0.911	U	0.911	0.911	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.674	U	0.674	0.674	r
87-68-3	Hexachlorobutadiene(sim)	0.469	U	0.469	0.469	r

FORM I AIR

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

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2019\CHEM20\04APR\09\
 Data File : 0409_35.D
 Acq On : 10 Apr 2019 03:56 am
 Operator : CORTEX\ms
 Client ID : SS-2 5X
 Lab ID : CC90517 5X
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 10 10:29:12 2019
 Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_0409.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Wed Apr 10 09:07:16 2019
 Response via : Initial Calibration

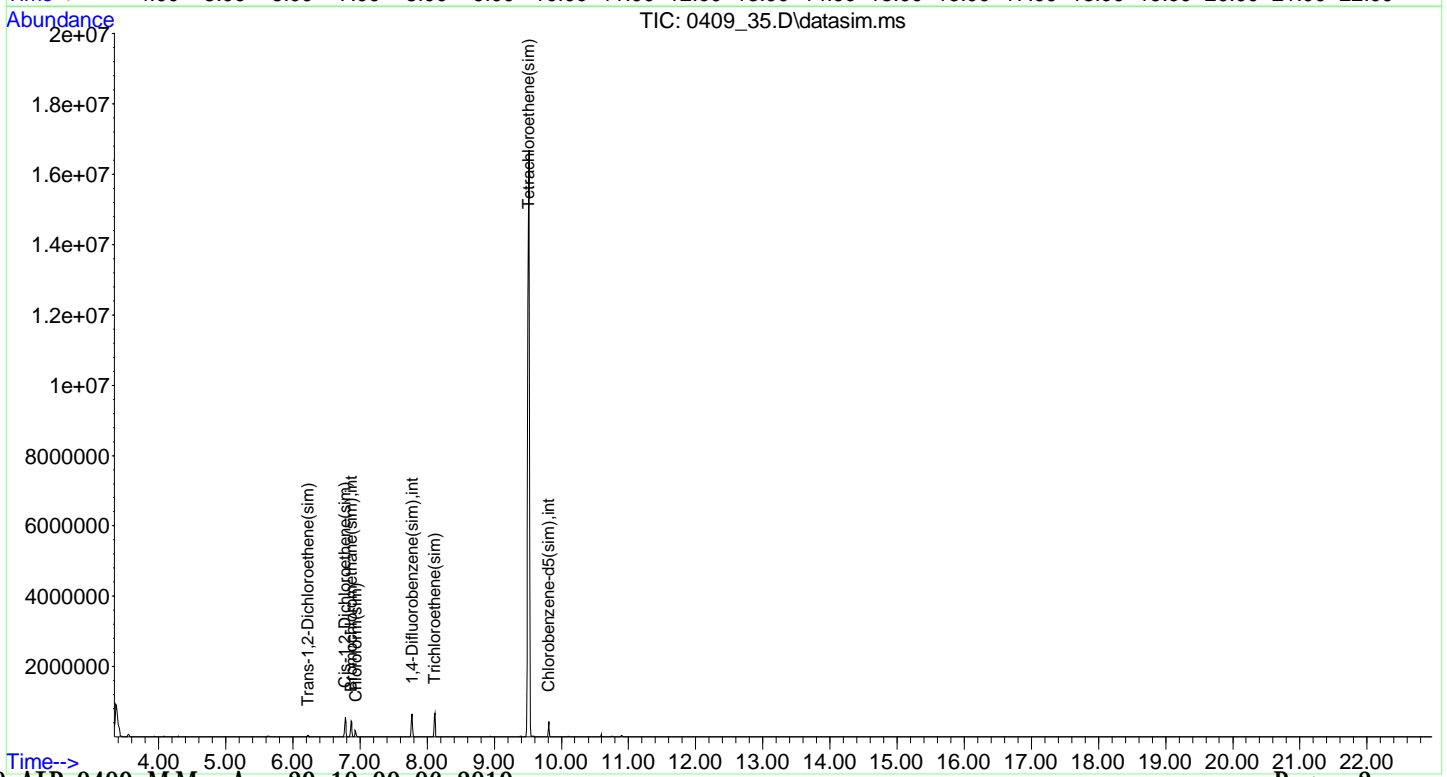
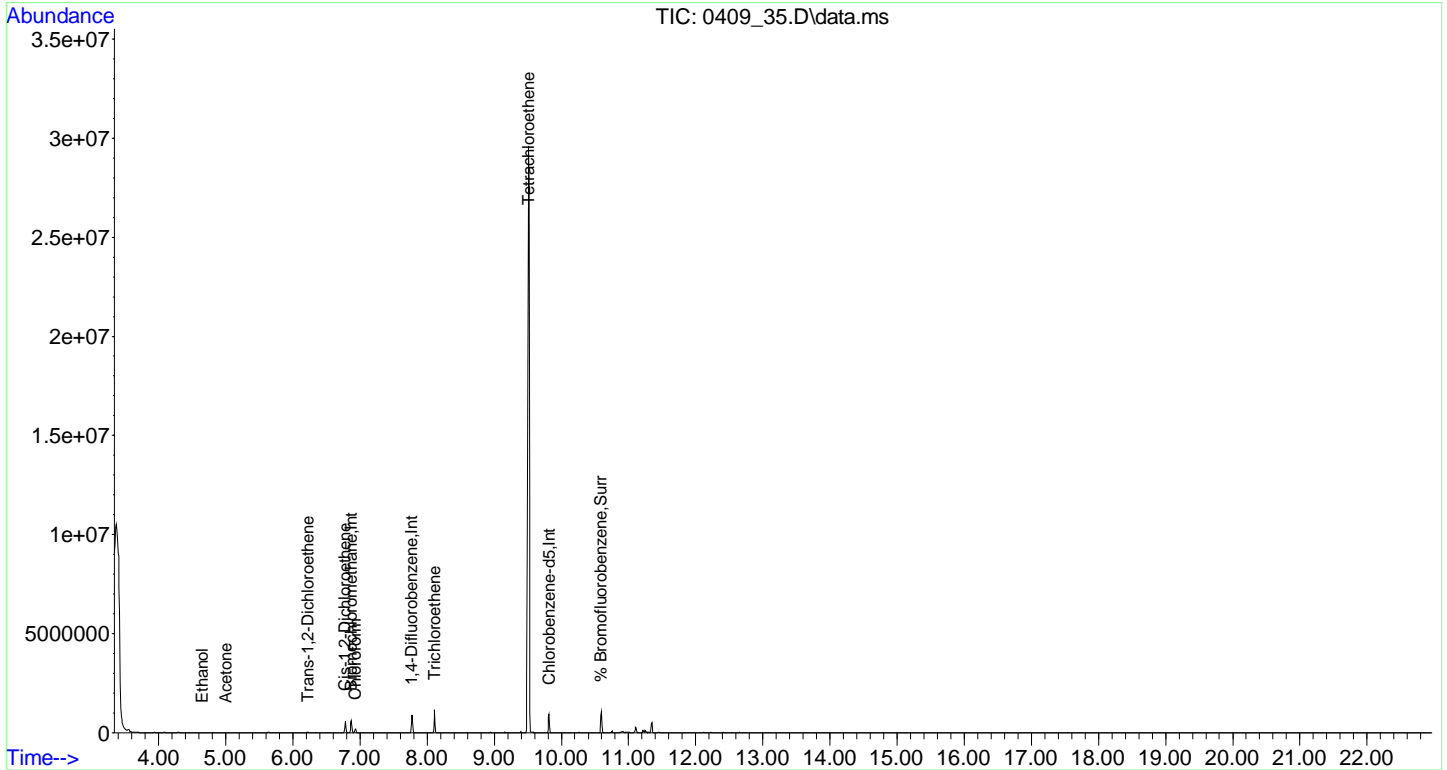
Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
Internal Standards						
1) Bromchloromethane	6.871	130	111130	10.000	ng	0.00
36) 1,4-Difluorobenzene	7.772	114	366695	10.000	ng	0.00
53) Chlorobenzene-d5	9.815	82	171906	10.000	ng	# 0.00
80) Bromchloromethane(sim)	6.874	130	152242	10.000	ng	# 0.00
94) 1,4-Difluorobenzene(sim)	7.775	114	415688	10.000	ng	0.00
104) Chlorobenzene-d5(sim)	9.810	82	173129	10.000	ng	# 0.00
System Monitoring Compounds						
62) % Bromfluorobenzene	10.596	95	235926	10.469	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	104.70%
Target Compounds						
11) Ethanol	4.652	45	2766	0.578	ppbv#	78
12) Acetone	5.009	43	10996	0.443	ppbv	89
22) Trans-1,2-Dichloroethene	6.223	61	16829	0.886	ppbv#	79
26) Cis-1,2-Dichloroethene	6.778	61	278768	15.276	ppbv#	70
28) Chloroform	6.933	83	88936	3.442	ppbv	88
39) Trichloroethene	8.111	130	189774	13.784	ppbv#	87
48) Toluene	8.948	91	7879	0.262	ppbv#	97
52) Tetrachloroethene	9.511	166	9916271	681.004	ppbv	97
90) Trans-1,2-Dichloroethe...	6.221	61	19903	0.816	ppbv#	78
92) Cis-1,2-Dichloroethene...	6.781	61	324354	14.110	ppbv#	72
93) Chloroform(sim)	6.933	83	88936	3.083	ppbv#	88
97) Trichloroethene(sim)	8.111	130	189774	12.672	ppbv	91
103) Tetrachloroethene(sim)	9.511	166	9905202	606.646	ppbv	97

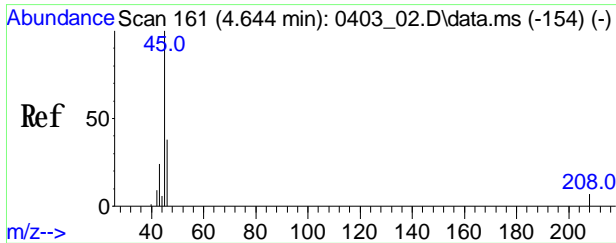
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2019\CHEM20\04APR\09\
Data File : 0409_35.D
Acq On : 10 Apr 2019 03:56 am
Operator : CORTEX\nms
Client ID : SS-2 5X
Lab ID : CC90517 5X
ALS Vial : 1 Sample Multiplier: 1

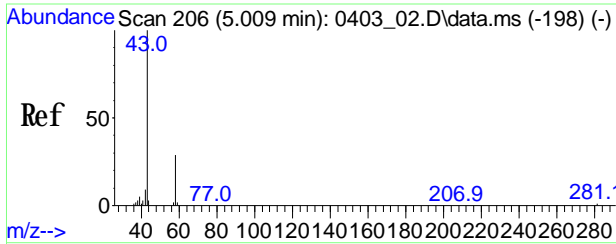
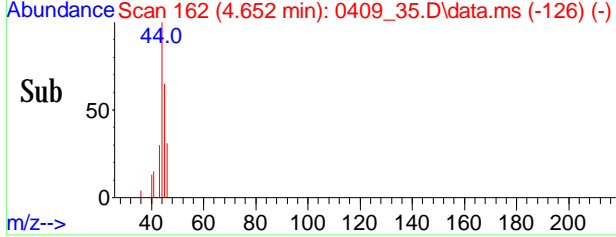
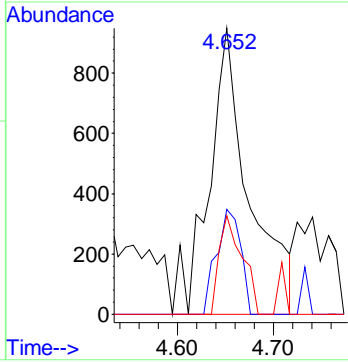
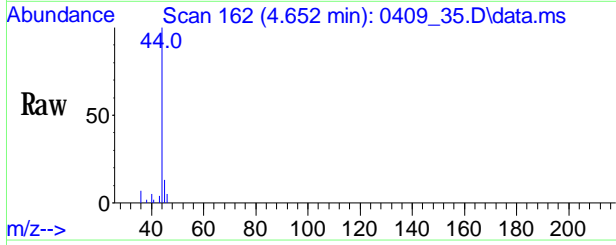
Quant Time: Apr 10 10:29:12 2019
Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_0409.M
Quant Title : VOA Standards for 5 point calibration
Last Update : Wed Apr 10 09:07:16 2019
Response via : Initial Calibration





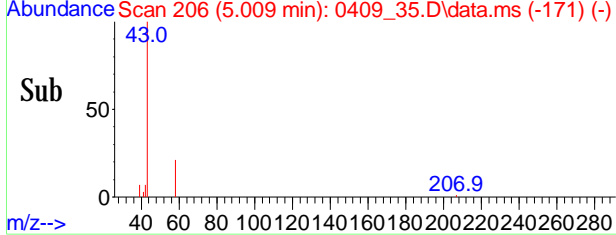
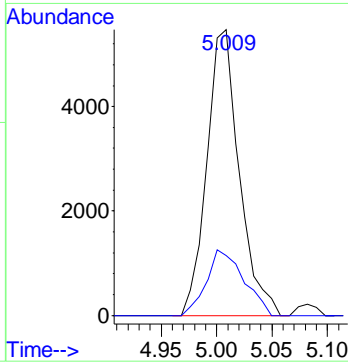
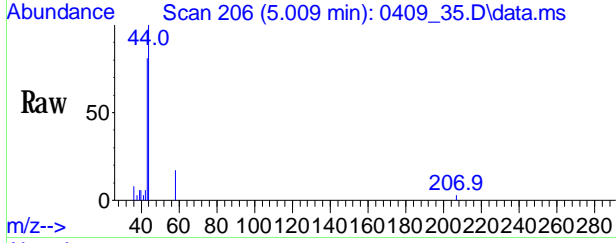
#11
 Ethanol
 Conc: 8S 0.578 ppby
 RT: 4.652 min Scan# 162
 Delta R.T. -0.008 min
 Lab File: 0409_35.D
 Acq: 10 Apr 2019 03:56 am

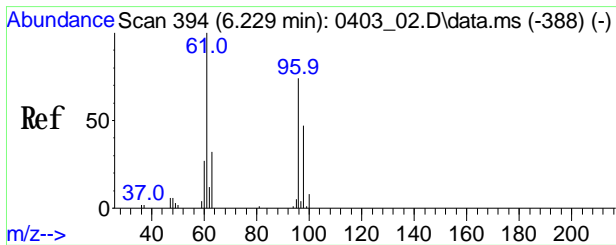
Tgt Ion	Ratio	Resp	Lower	Upper
45	100			
46	21.8	29.9		44.9#
43	19.7	22.7		34.1#



#12
 Acetone
 Conc: 8S 0.443 ppby
 RT: 5.009 min Scan# 206
 Delta R.T. -0.016 min
 Lab File: 0409_35.D
 Acq: 10 Apr 2019 03:56 am

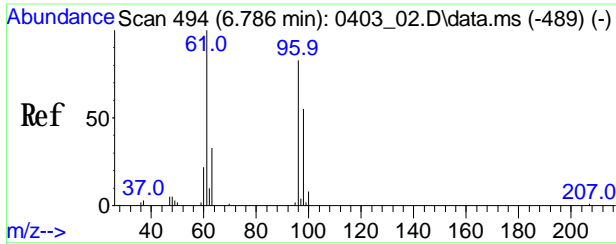
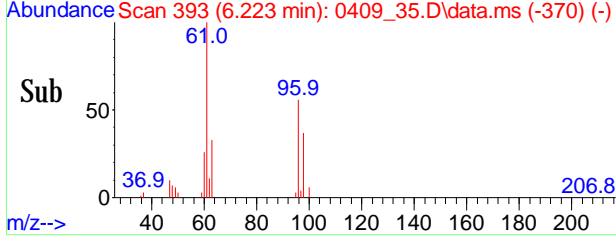
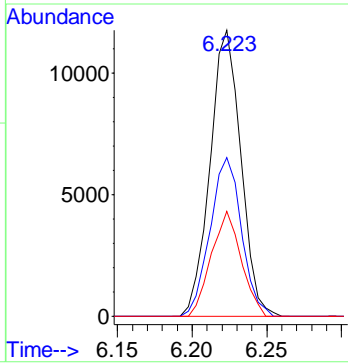
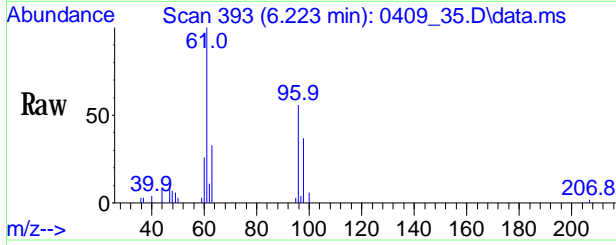
Tgt Ion	Ratio	Resp	Lower	Upper
43	100			
58	26.5	25.9		38.9





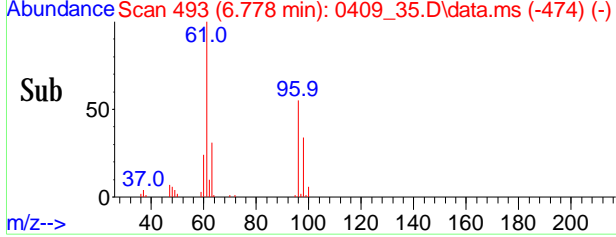
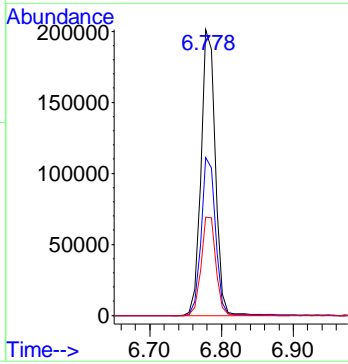
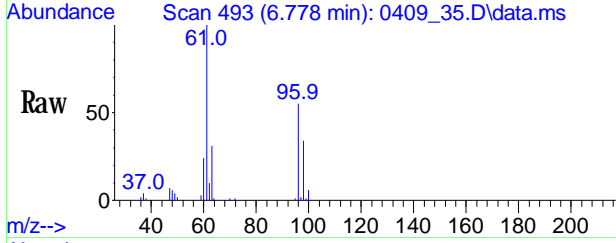
#22
 Trans-1, 2-Dichloroethene
 Conc: 8S 0.886 ppbv
 RT: 6.223 min Scan# 393
 Delta R.T. -0.016 min
 Lab File: 0409_35.D
 Acq: 10 Apr 2019 03:56 am

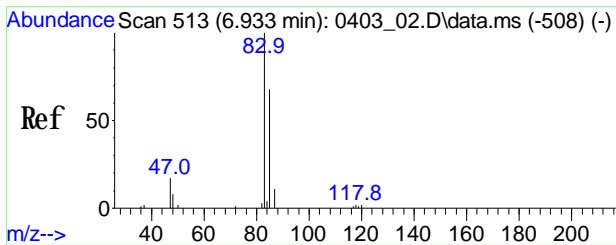
Tgt Ion	Ratio	Resp	Lower	Upper
61	100			
96	56.6	60.6		90.8#
98	35.6	38.9		58.3#



#26
 Cis-1, 2-Dichloroethene
 Conc: 8S 15.276 ppbv
 RT: 6.778 min Scan# 493
 Delta R.T. -0.016 min
 Lab File: 0409_35.D
 Acq: 10 Apr 2019 03:56 am

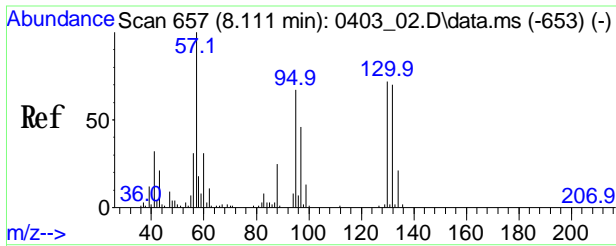
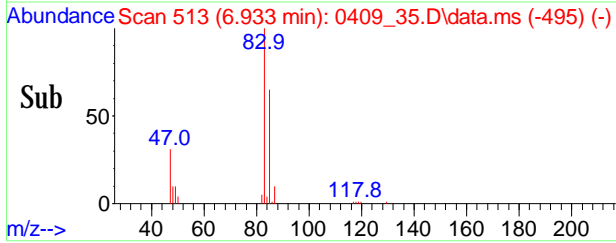
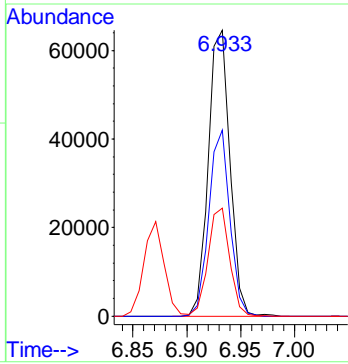
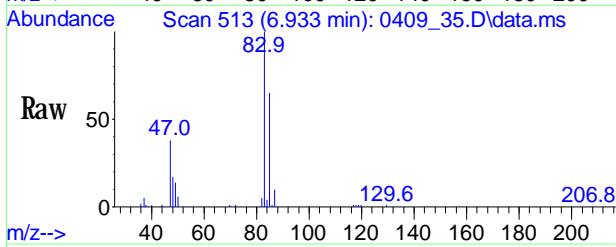
Tgt Ion	Ratio	Resp	Lower	Upper
61	100			
96	55.3	67.8		101.8#
98	35.3	43.8		65.6#





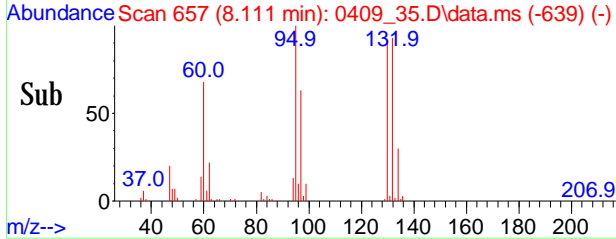
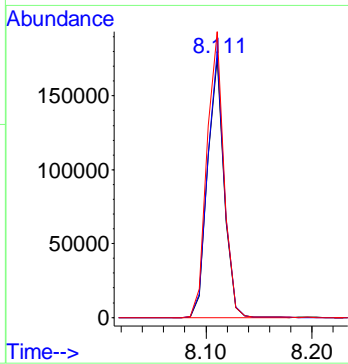
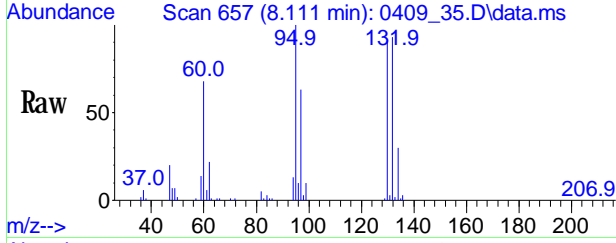
#28
 Chloroform
 Conc: 8S 3.442 ppbv
 RT: 6.933 min Scan# 513
 Delta R.T. -0.008 min
 Lab File: 0409_35.D
 Acq: 10 Apr 2019 03:56 am

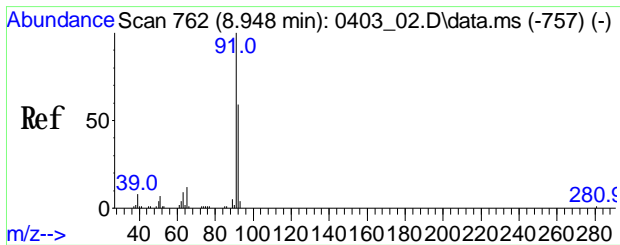
Tgt Ion	Ratio	Resp	Upper
83	100	88936	
85	62.9	45.9	85.9
47	37.7	0.8	40.8



#39
 Trichloroethene
 Conc: 8S 13.784 ppbv
 RT: 8.111 min Scan# 657
 Delta R.T. -0.000 min
 Lab File: 0409_35.D
 Acq: 10 Apr 2019 03:56 am

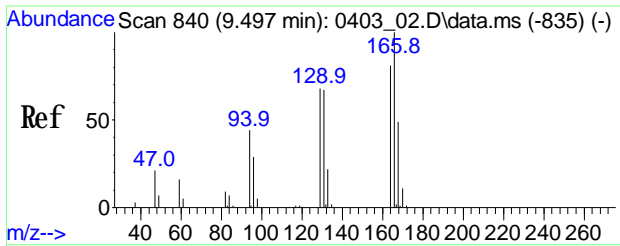
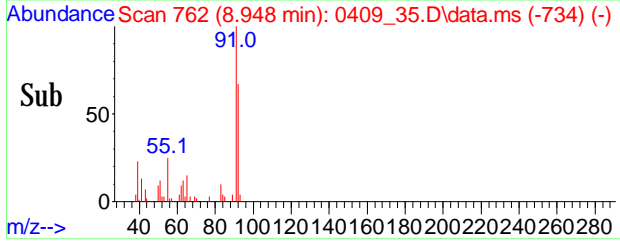
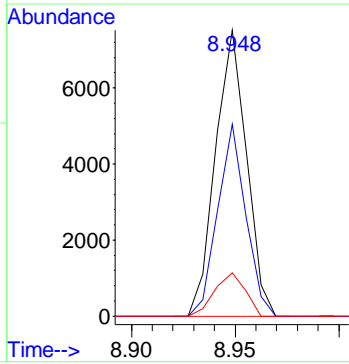
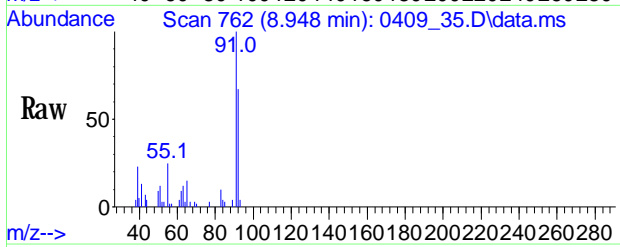
Tgt Ion	Ratio	Resp	Upper
130	100	189774	
132	102.4	78.0	117.0
95	112.6	73.0	109.4#





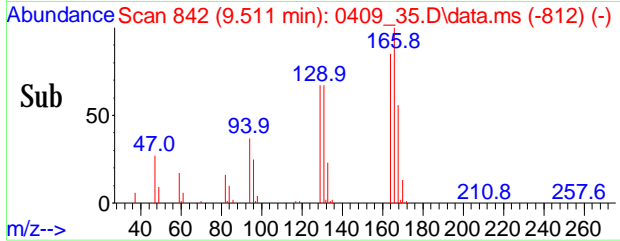
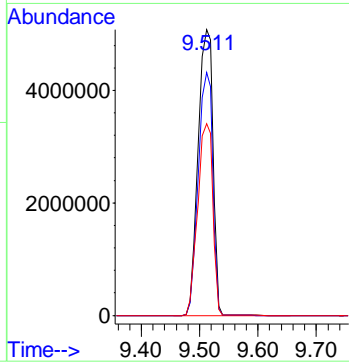
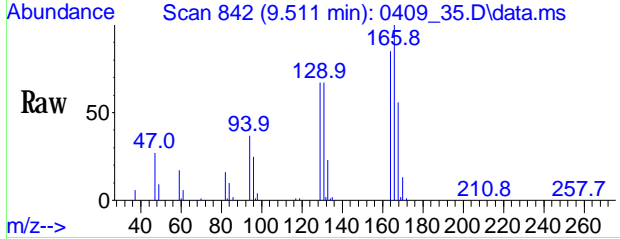
#48
 Toluene
 Conc: 8S 0.262 ppbv
 RT: 8.948 min Scan# 762
 Delta R.T. 0.000 min
 Lab File: 0409_35.D
 Acq: 10 Apr 2019 03:56 am

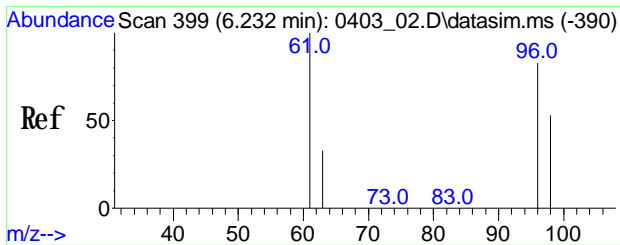
Tgt Ion	Ratio	Resp	Lower	Upper
91	100	7879		
92	60.8	47.7	71.5	
65	14.8	9.3	13.9	



#52
 Tetrachloroethene
 Conc: 8S 681.004 ppbv
 RT: 9.511 min Scan# 842
 Delta R.T. 0.014 min
 Lab File: 0409_35.D
 Acq: 10 Apr 2019 03:56 am

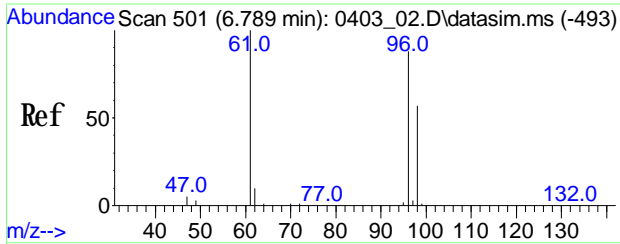
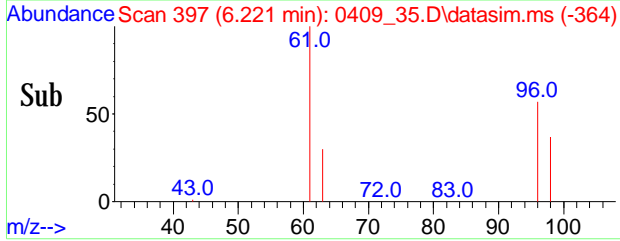
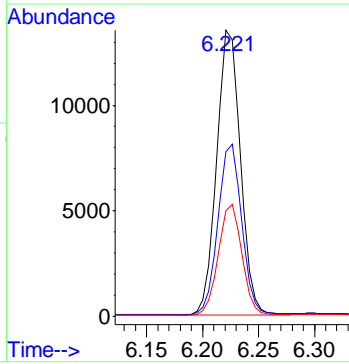
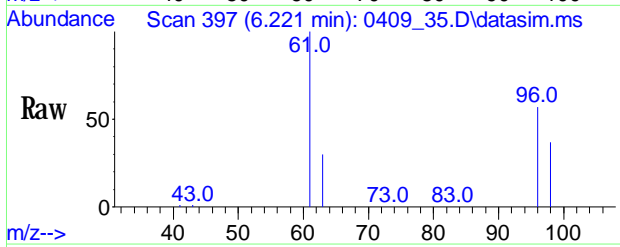
Tgt Ion	Ratio	Resp	Lower	Upper
166	100	9916271		
164	82.9	62.2	93.2	
129	68.3	54.9	82.3	





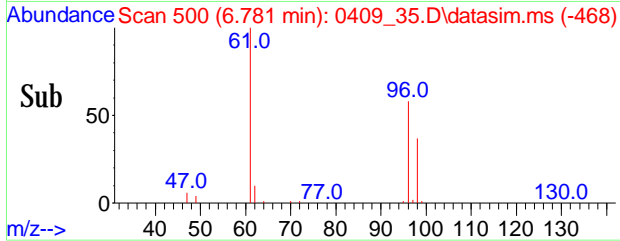
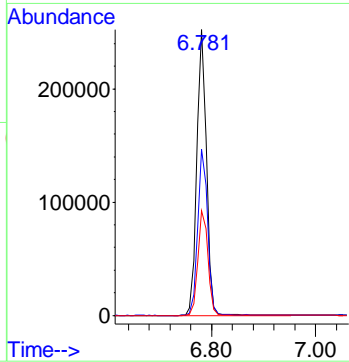
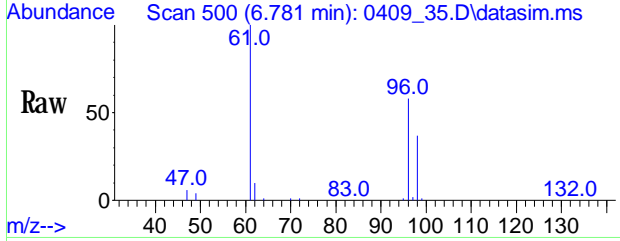
#90
 Trans-1,2-Dichloroethene (sim)
 Conc: 8S 0.816 ppbv
 RT: 6.221 min Scan# 397
 Delta R.T. -0.016 min
 Lab File: 0409_35.D
 Acq: 10 Apr 2019 03:56 am

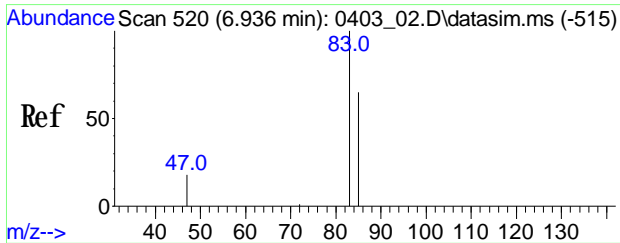
Tgt Ion	Ratio	Resp	Lower	Upper
61	100	19903		
96	59.5	64.6		97.0#
98	38.4	41.7		62.5#



#92
 Cis-1,2-Dichloroethene (sim)
 Conc: 8S 14.110 ppbv
 RT: 6.781 min Scan# 500
 Delta R.T. -0.008 min
 Lab File: 0409_35.D
 Acq: 10 Apr 2019 03:56 am

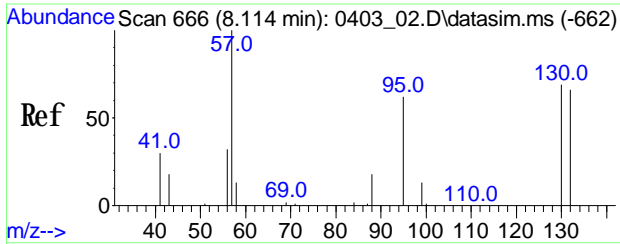
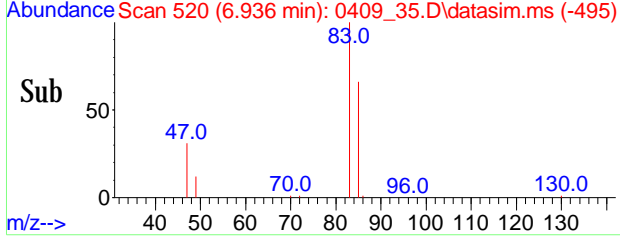
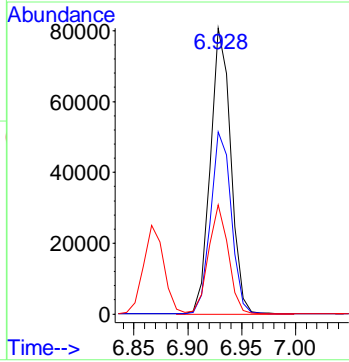
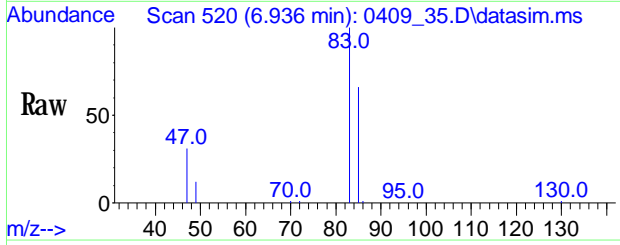
Tgt Ion	Ratio	Resp	Lower	Upper
61	100	324354		
96	59.3	69.7		104.5#
98	38.2	45.3		67.9#





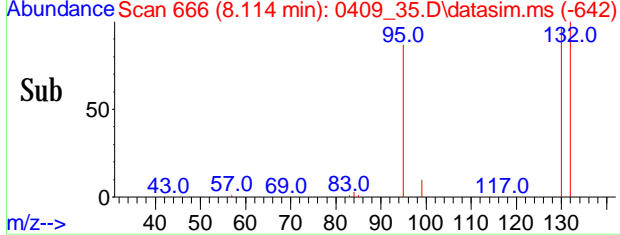
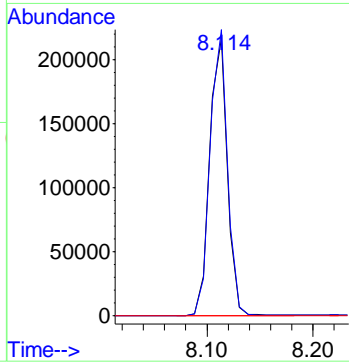
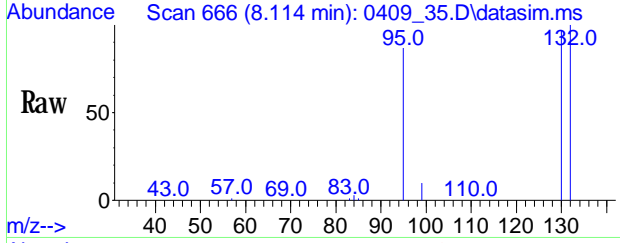
#93
 Chloroform(sim)
 Conc: 8S 3.083 ppby
 RT: 6.933 min Scan# 520
 Delta R.T. -0.008 min
 Lab File: 0409_35.D
 Acq: 10 Apr 2019 03:56 am

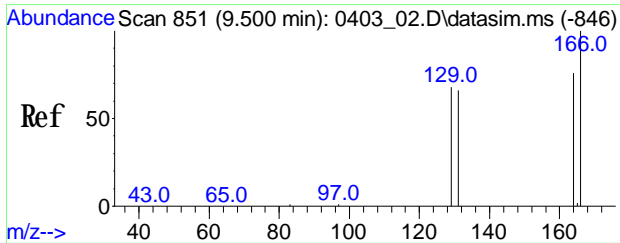
Tgt Ion	Ratio	Resp	Upper
83	100	88936	Lower
85	62.9	52.7	79.1
47	37.7	16.6	25.0#



#97
 Trichloroethene(sim)
 Conc: 8S 12.672 ppby
 RT: 8.111 min Scan# 666
 Delta R.T. 0.000 min
 Lab File: 0409_35.D
 Acq: 10 Apr 2019 03:56 am

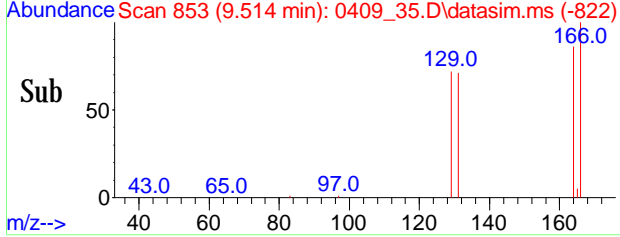
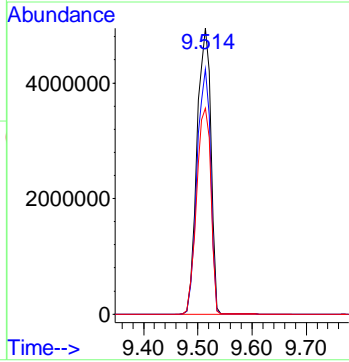
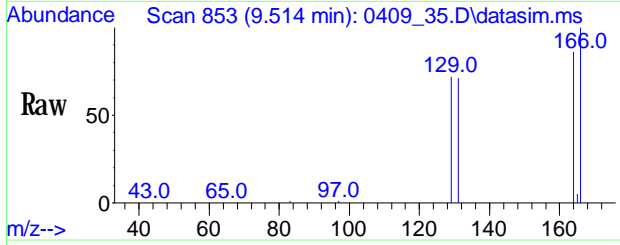
Tgt Ion	Ratio	Resp	Upper
130	100	189774	Lower
132	102.4	78.0	117.0
97	70.3	47.2	70.8





#103
 Tetrachloroethene (sim)
 Conc: 85 606.646 ppbv
 RT: 9.511 min Scan# 853
 Delta R.T. 0.014 min
 Lab File: 0409_35.D
 Acq: 10 Apr 2019 03:56 am

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	9905202		
164	83.0		57.7	97.7
129	68.3		48.6	88.6



1
AIR ANALYSIS DATA SHEET

CLIENT ID

SS-2 300X

Client:	<u>WALDENE</u>	Lab:	<u>Phoenix Env. Labs</u>
SDG No.:	<u>GCC90508</u>	Lab Sample ID:	<u>CC90517 300X</u>
Canister:	<u>219</u>	Lab File ID:	<u>0409_55.D</u>
Instrument:	<u>CHEM20</u>	Column:	<u>RTX-1 60M</u>
		Date Received:	<u>04/08/19</u>
Purge Volume	<u>200</u> (cc)	Date Analyzed:	<u>04/10/19</u>
Matrix:	<u>AIR</u>	Dilution Factor:	<u>300</u>

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
64-17-5	Ethanol	159	U	159	159	
67-64-1	Acetone	126	U	126	126	
127-18-4	Tetrachloroethene	6410	D	11.1	11.1	r
156-60-5	Trans-1,2-Dichloroethene(sim)	75.7	U	75.7	75.7	
156-59-2	Cis-1,2-Dichloroethene(sim)	55.5	X	15.1	15.1	
67-66-3	Chloroform(sim)	61.5	U	61.5	61.5	
79-01-6	Trichloroethene(sim)	51.6	X	11.2	11.2	

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.

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2019\CHEM20\04APR\09\
 Data File : 0409_55.D
 Acq On : 10 Apr 2019 05:09 pm
 Operator : CORTEX\ms
 Client ID : SS-2 300X
 Lab ID : CC90517 300X
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 11 09:05:20 2019
 Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_0409.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Wed Apr 10 09:42:38 2019
 Response via : Initial Calibration

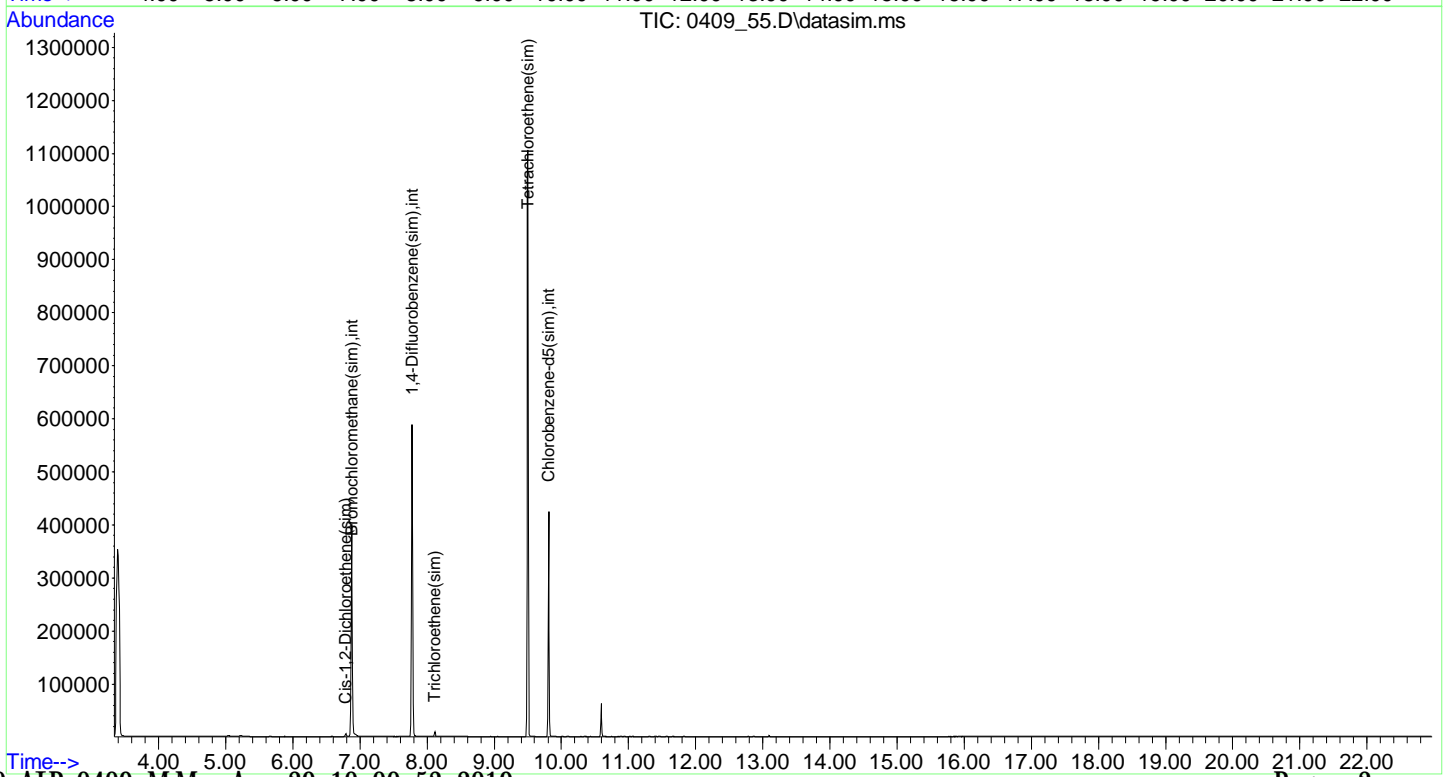
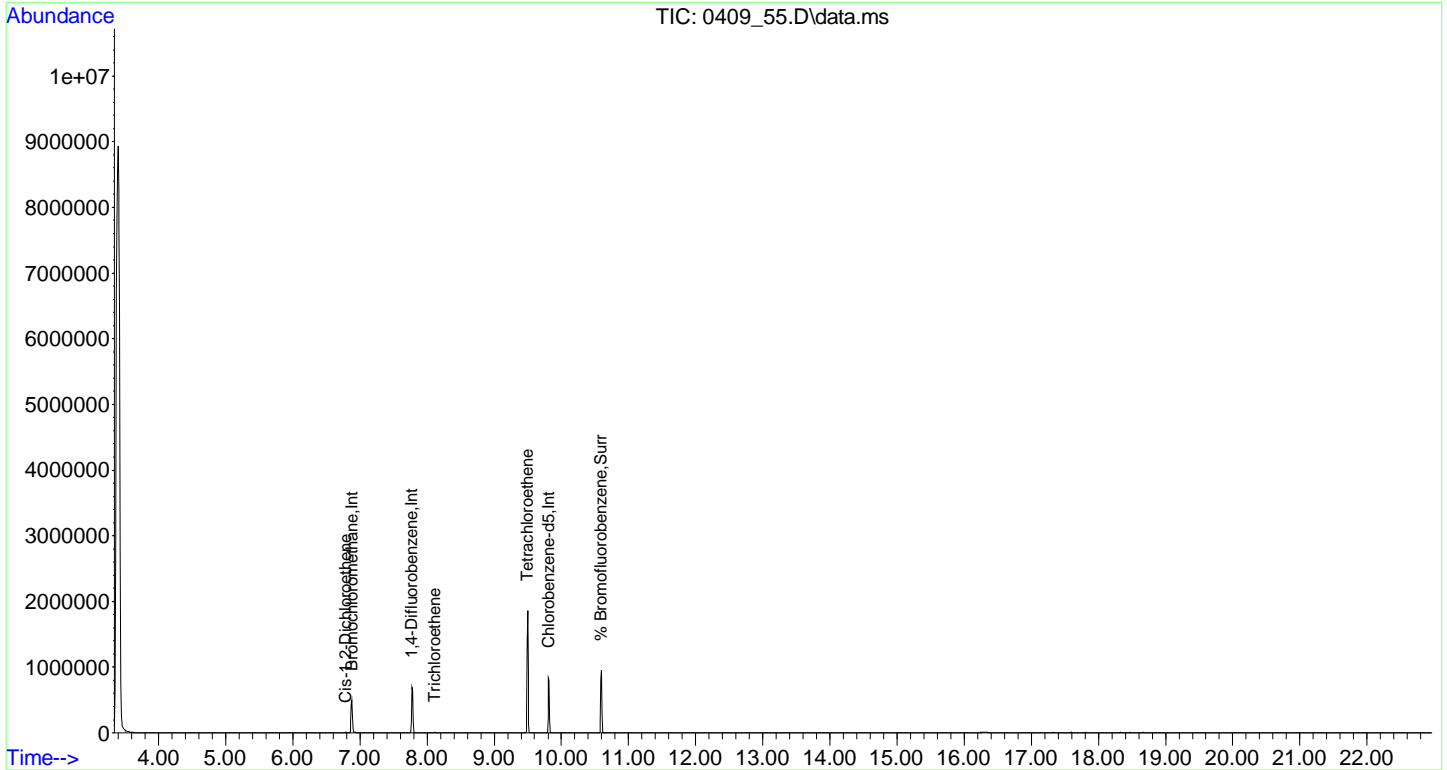
Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
Internal Standards						
1) Bromchloromethane	6.879	130	88581	10.000	ng	0.00
36) 1,4-Difluorobenzene	7.772	114	298725	10.000	ng	0.00
53) Chlorobenzene-d5	9.807	82	153421	10.000	ng	# 0.00
80) Bromchloromethane(sim)	6.882	130	123179	10.000	ng	# 0.00
94) 1,4-Difluorobenzene(sim)	7.775	114	351724	10.000	ng	0.00
104) Chlorobenzene-d5(sim)	9.810	82	156678	10.000	ng	# 0.00
System Monitoring Compounds						
62) % Bromfluorobenzene	10.596	95	204235	10.154	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	101.50%
Target Compounds						
26) Cis-1,2-Dichloroethene	6.786	61	2636	0.181	ppbv#	77
39) Trichloroethene	8.111	130	2180	0.194	ppbv#	88
52) Tetrachloroethene	9.498	166	253508	21.371	ppbv#	87
92) Cis-1,2-Dichloroethene...	6.789	61	3443	0.185	ppbv#	72
97) Trichloroethene(sim)	8.111	130	2180	0.172	ppbv#	91
103) Tetrachloroethene(sim)	9.498	166	253508	18.350	ppbv#	87

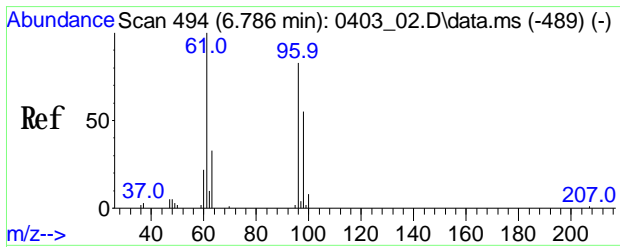
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2019\CHEM20\04APR\09\
Data File : 0409_55.D
Acq On : 10 Apr 2019 05:09 pm
Operator : CORTEX\ns
Client ID : SS-2 300X
Lab ID : CC90517 300X
ALS Vial : 1 Sample Multiplier: 1

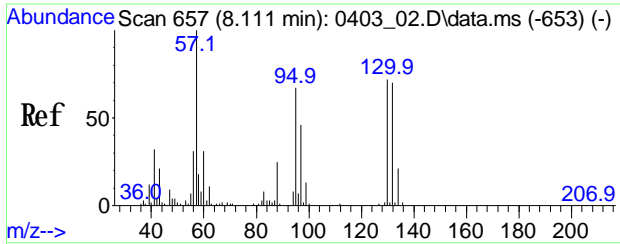
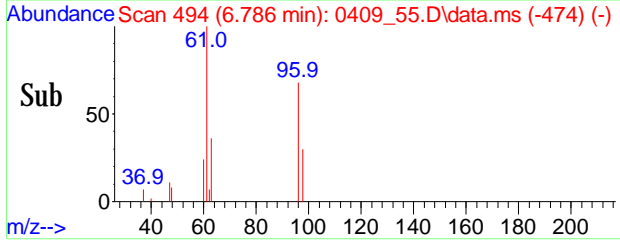
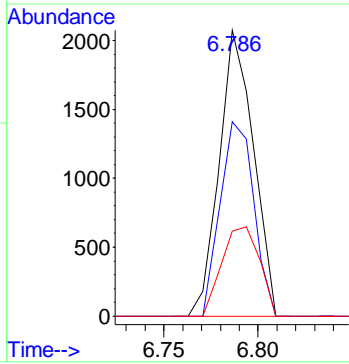
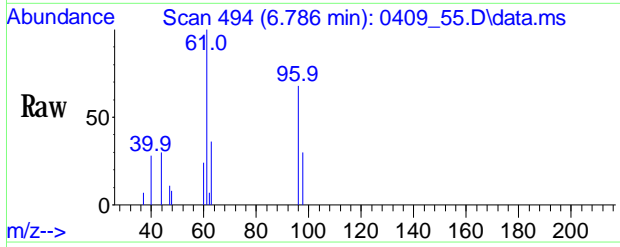
Quant Time: Apr 11 09:05:20 2019
Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_0409.M
Quant Title : VOA Standards for 5 point calibration
Last Update : Wed Apr 10 09:42:38 2019
Response via : Initial Calibration





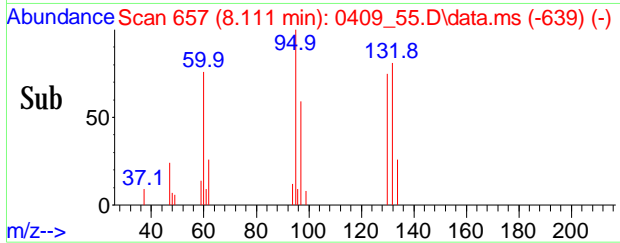
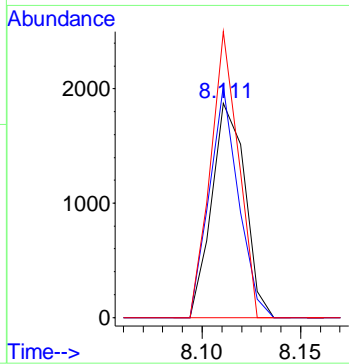
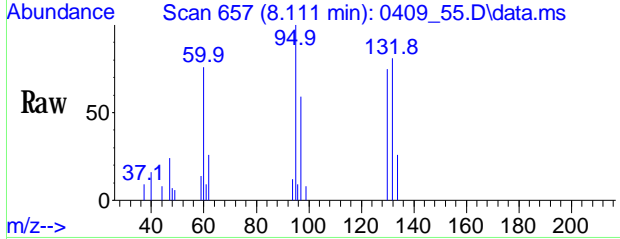
#26
 Cis-1,2-Dichloroethene
 Conc: 8S 0.181 ppby
 RT: 6.786 min Scan# 494
 Delta R.T. -0.008 min
 Lab File: 0409_55.D
 Acq: 10 Apr 2019 05:09 pm

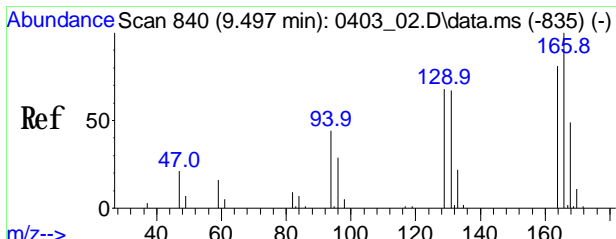
Tgt Ion	Ratio	Resp	Lower	Upper
61	100			
96	66.8	67.8		101.8#
98	34.3	43.8		65.6#



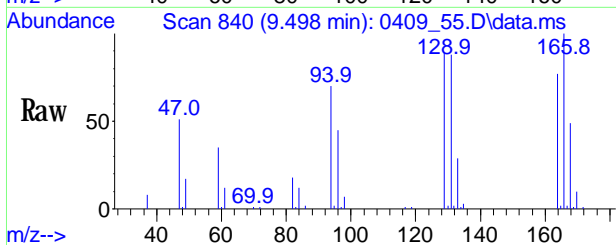
#39
 Trichloroethene
 Conc: 8S 0.194 ppby
 RT: 8.111 min Scan# 657
 Delta R.T. -0.000 min
 Lab File: 0409_55.D
 Acq: 10 Apr 2019 05:09 pm

Tgt Ion	Ratio	Resp	Lower	Upper
130	100			
132	94.0	78.0		117.0
95	111.2	73.0		109.4#

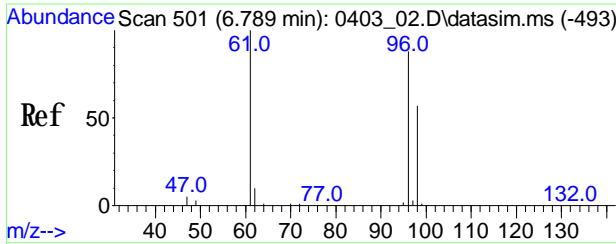
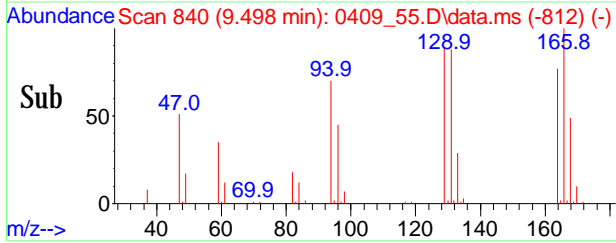
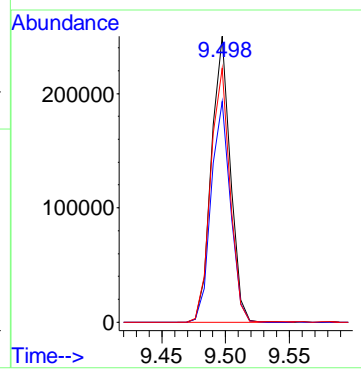




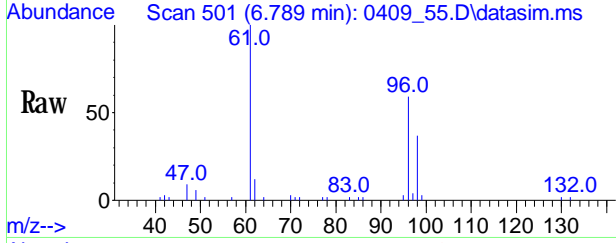
#52
 Tetrachloroethene
 Conc: 8S 21.371 ppbv
 RT: 9.498 min Scan# 840
 Delta R.T. 0.001 min
 Lab File: 0409_55.D
 Acq: 10 Apr 2019 05:09 pm



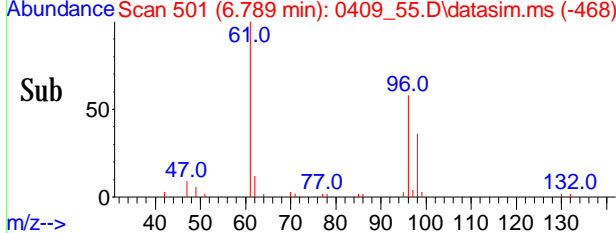
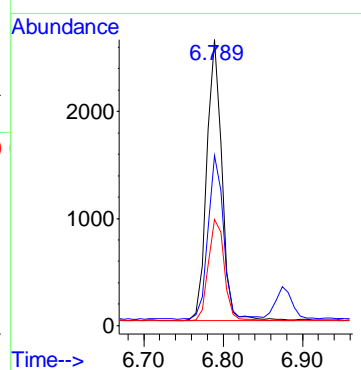
Tgt Ion: 166 Resp: 253508
 Ion Ratio Lower Upper
 166 100
 164 78.5 62.2 93.2
 129 90.7 54.9 82.3#

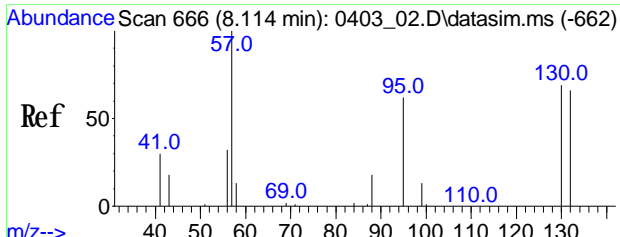


#92
 Cis-1,2-Dichloroethene(sim)
 Conc: 8S 0.185 ppbv
 RT: 6.789 min Scan# 501
 Delta R.T. -0.000 min
 Lab File: 0409_55.D
 Acq: 10 Apr 2019 05:09 pm



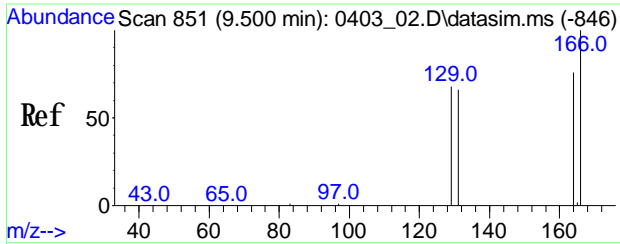
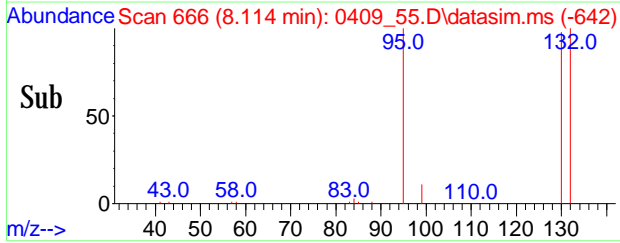
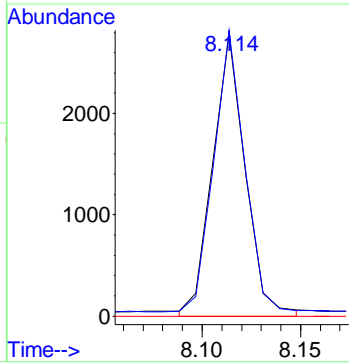
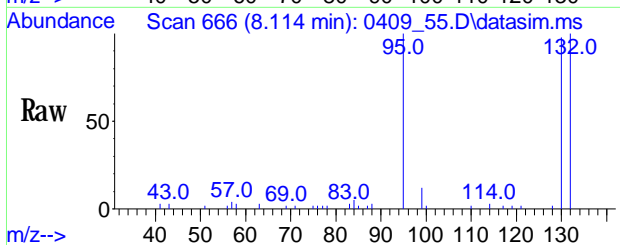
Tgt Ion: 61 Resp: 3443
 Ion Ratio Lower Upper
 61 100
 96 59.4 69.7 104.5#
 98 38.7 45.3 67.9#





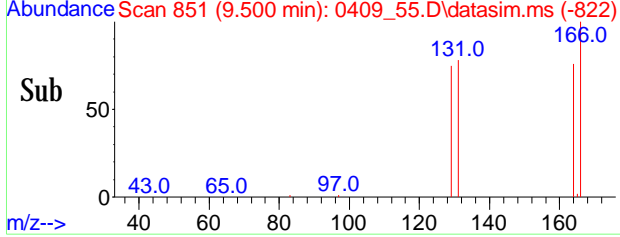
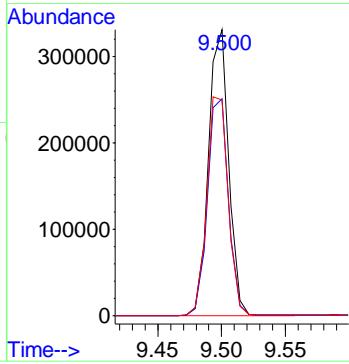
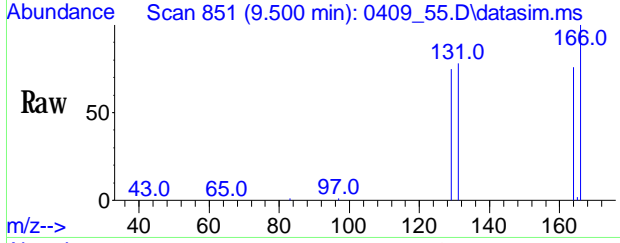
#97
 Trichloroethene(sim)
 Conc: 8S 0.172 ppbv
 RT: 8.111 min Scan# 666
 Delta R.T. -0.000 min
 Lab File: 0409_55.D
 Acq: 10 Apr 2019 05:09 pm

Tgt Ion	Ratio	Resp	Lower	Upper
130	100	2180		
132	94.0	78.0		117.0
97	71.7	47.2		70.8#



#103
 Tetrachloroethene(sim)
 Conc: 8S 18.350 ppbv
 RT: 9.498 min Scan# 851
 Delta R.T. 0.001 min
 Lab File: 0409_55.D
 Acq: 10 Apr 2019 05:09 pm

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	253508		
164	78.5	57.7		97.7
129	90.7	48.6		88.6#



1
AIR ANALYSIS DATA SHEET

CLIENT ID

AA-DUP

Client: WALDENE Lab: Phoenix Env. Labs

SDG No.: GCC90508 Lab Sample ID: CC90518

Canister: 28600 Lab File ID: 0409_26.D

Instrument: CHEM20 Column: RTX-1 60M Date Received: 04/08/19

Purge Volume 200 (cc) Date Analyzed: 04/09/19

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	0.489		0.202	0.202	r
74-87-3	Chloromethane	0.641		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	2.16	S	0.531	0.531	r
67-64-1	Acetone	2.91	S	0.421	0.421	r
75-69-4	Trichlorofluoromethane	0.263		0.178	0.178	r
67-63-0	Isopropylalcohol	0.515	S	0.407	0.407	r
107-13-1	Acrylonitrile	0.461	U	0.461	0.461	r
75-09-2	Methylene Chloride	0.864	U	0.864	0.864	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
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
630-20-6	1,1,1,2-Tetrachloroethane	0.146	U	0.146	0.146	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)	0.078	U	0.078	0.078	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

AA-DUP

Client: WALDENE Lab: Phoenix Env. Labs

SDG No.: GCC90508 Lab Sample ID: CC90518

Canister: 28600 Lab File ID: 0409_26.D

Instrument: CHEM20 Column: RTX-1 60M Date Received: 04/08/19

Purge Volume 200 (cc) Date Analyzed: 04/09/19

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	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)	0.080		0.032	0.032	r
75-35-4	1,1-Dichloroethene(sim)	0.051	U	0.051	0.051	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)	0.051	U	0.051	0.051	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)	0.037	U	0.037	0.037	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)	0.037	U	0.037	0.037	r
75-25-2	Bromoform(sim)	0.097	U	0.097	0.097	r
179601-23-1	m,p-Xylene(sim)	0.230	U	0.230	0.230	r
79-34-5	1,1,1,2-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

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2019\CHEM20\04APR\09\
 Data File : 0409_26.D
 Acq On : 09 Apr 2019 10:03 pm
 Operator : CORTEX\ms
 Client ID : AA-DUP
 Lab ID : CC90518
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 10 09:36:11 2019
 Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_0409.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Wed Apr 10 09:07:16 2019
 Response via : Initial Calibration

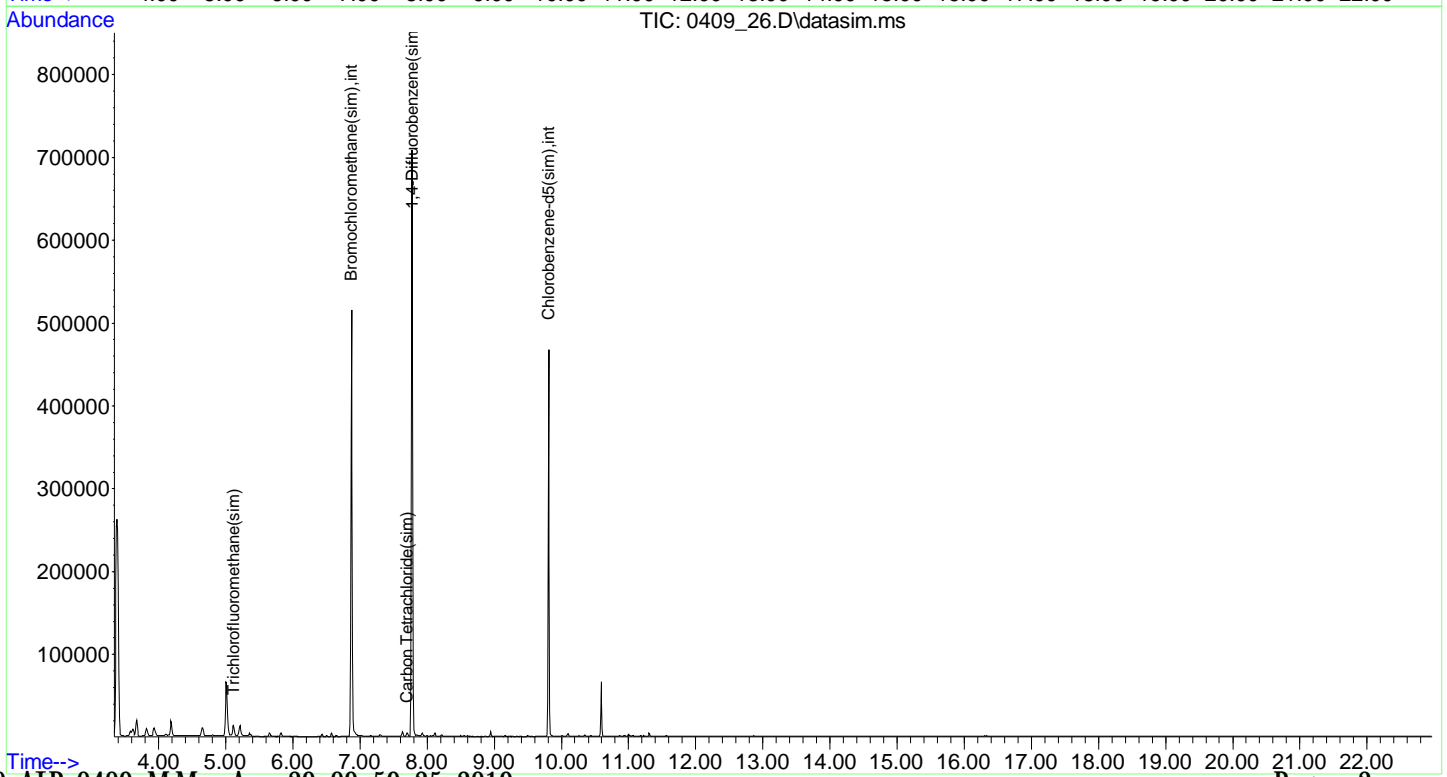
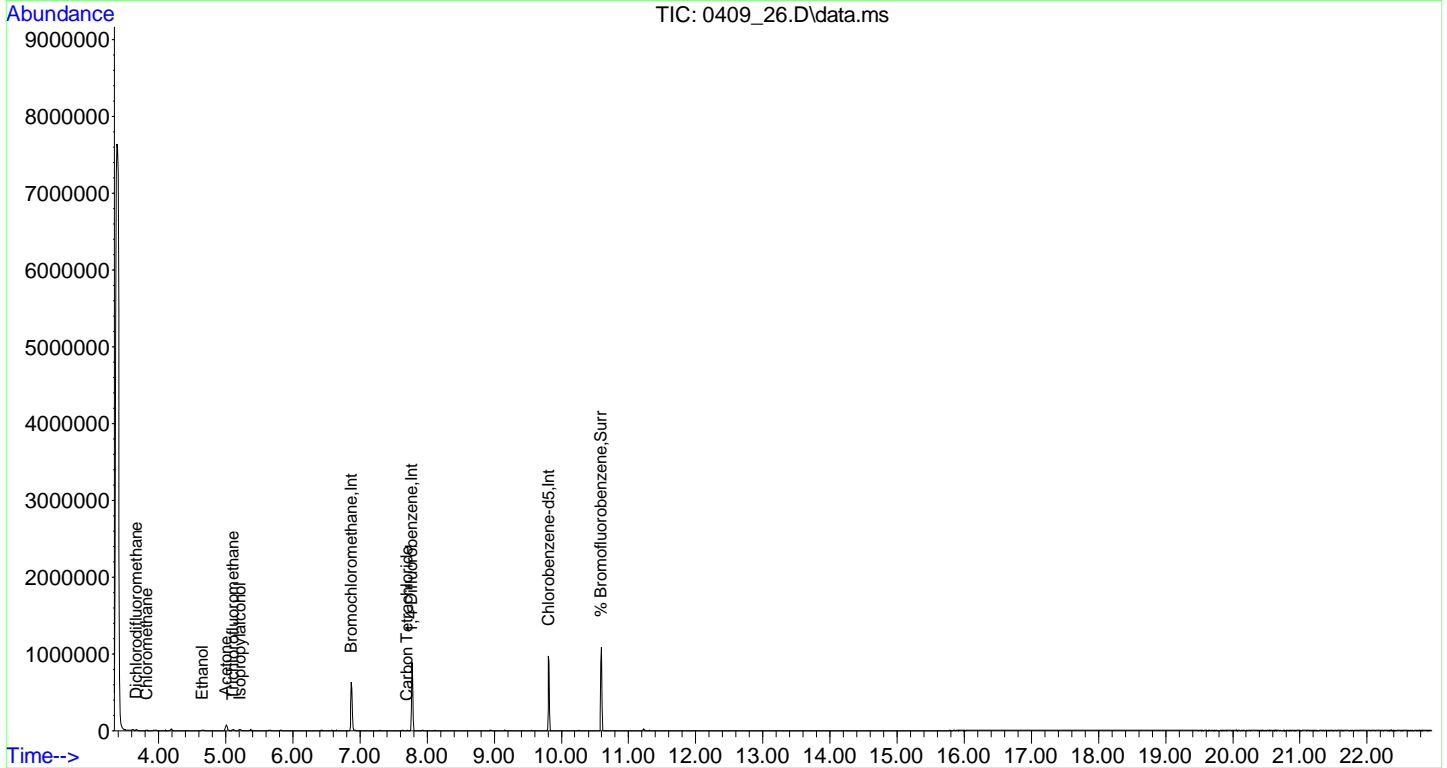
Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
Internal Standards						
1) Bromchloromethane	6.871	130	122049	10.000	ng	0.00
36) 1,4-Difluorobenzene	7.772	114	383830	10.000	ng	0.00
53) Chlorobenzene-d5	9.807	82	185802	10.000	ng	# 0.00
80) Bromchloromethane(sim)	6.874	130	166324	10.000	ng	# 0.00
94) 1,4-Difluorobenzene(sim)	7.775	114	440757	10.000	ng	0.00
104) Chlorobenzene-d5(sim)	9.810	82	185027	10.000	ng	# 0.00
System Monitoring Compounds						
62) % Bromfluorobenzene	10.596	95	241719	9.923	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	99.20%
Target Compounds						
3) Dichlorodifluoromethane	3.670	85	15300	0.489	ppbv#	96
4) Chloromethane	3.824	50	8383	0.641	ppbv	93
11) Ethanol	4.652	45	11333	2.158	ppbv	97
12) Acetone	5.009	43	79380	2.909	ppbv#	84
13) Trichlorofluoromethane	5.114	101	10774	0.263	ppbv	95
14) Isopropylalcohol	5.212	45	14813	0.515	ppbv#	84
34) Carbon Tetrachloride	7.704	117	1736	0.075	ppbv	96
84] Trichlorofluoromethane...	5.117	101	12520	0.226	ppbv	99
87] Carbon Tetrachloride(sim)	7.704	117	1736	0.080	ppbv	96

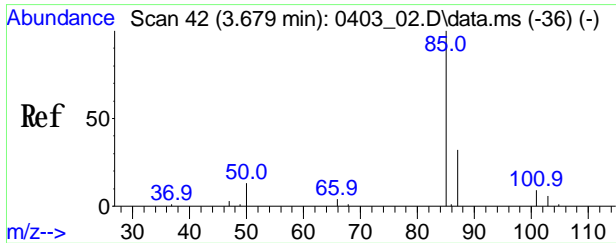
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2019\CHEM20\04APR\09\
Data File : 0409_26.D
Acq On : 09 Apr 2019 10:03 pm
Operator : CORTEX\nms
Client ID : AA-DUP
Lab ID : CC90518
ALS Vial : 1 Sample Multiplier: 1

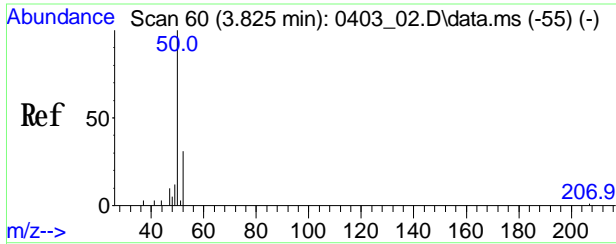
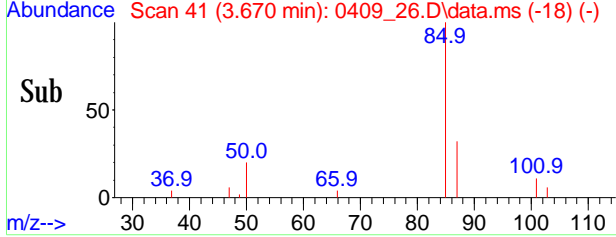
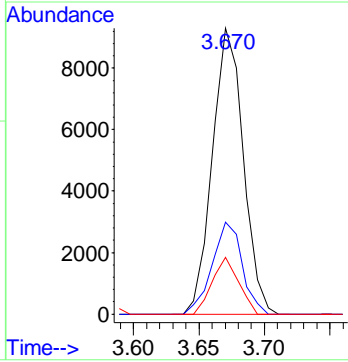
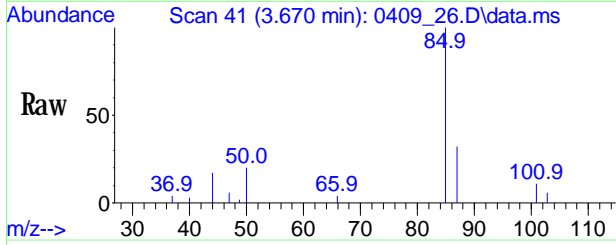
Quant Time: Apr 10 09:36:11 2019
Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_0409.M
Quant Title : VOA Standards for 5 point calibration
Last Update : Wed Apr 10 09:07:16 2019
Response via : Initial Calibration





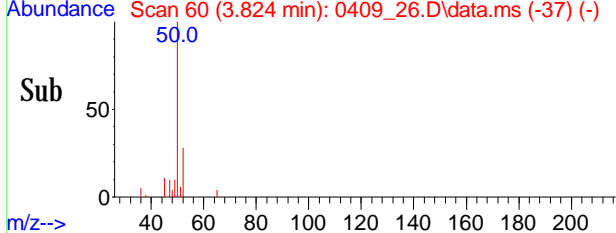
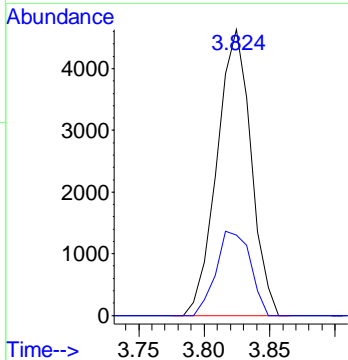
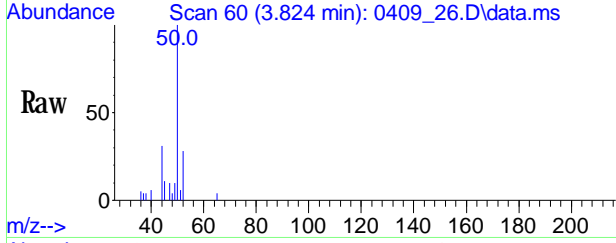
#3
 Dichlorodifluoromethane
 Conc: 8S 0.489 ppby
 RT: 3.670 min Scan# 41
 Delta R.T. -0.016 min
 Lab File: 0409_26.D
 Acq: 09 Apr 2019 10:03 pm

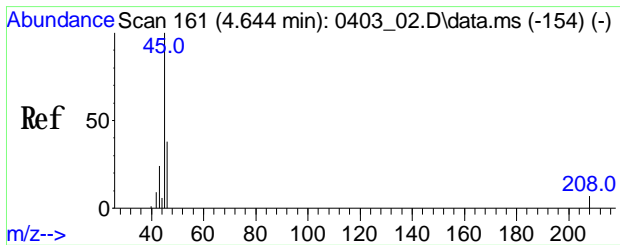
Tgt Ion	Ratio	Resp	Lower	Upper
85	100	15300		
87	31.3	25.6	38.4	
50	17.0	9.4	14.2#	



#4
 Chloromethane
 Conc: 8S 0.641 ppby
 RT: 3.824 min Scan# 60
 Delta R.T. -0.016 min
 Lab File: 0409_26.D
 Acq: 09 Apr 2019 10:03 pm

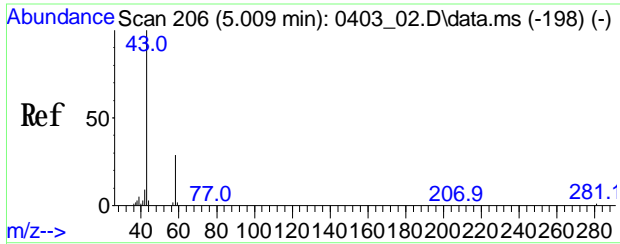
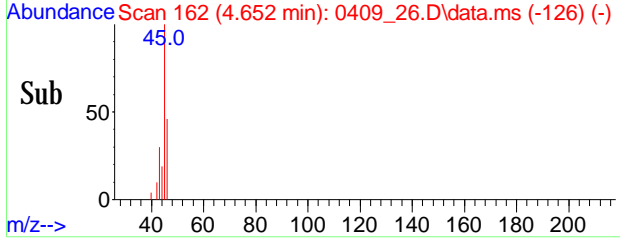
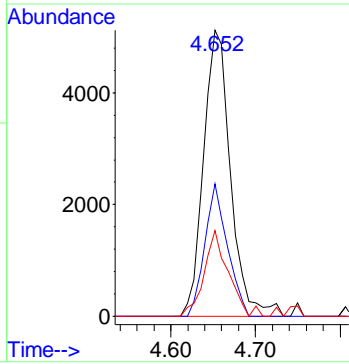
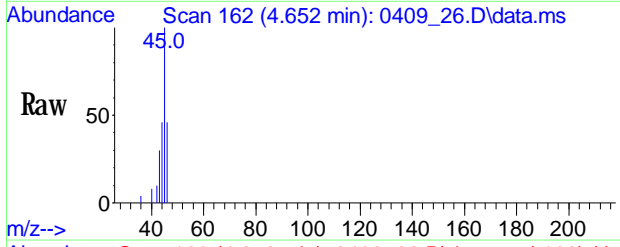
Tgt Ion	Ratio	Resp	Lower	Upper
50	100	8383		
52	29.7	13.6	53.6	





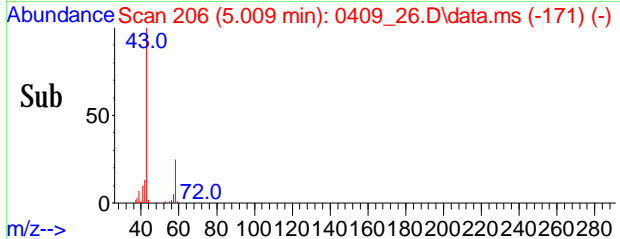
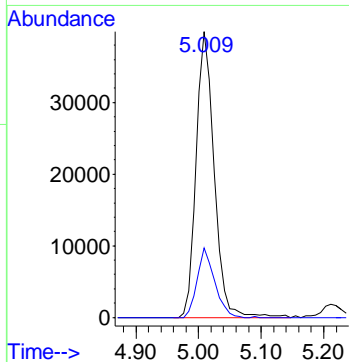
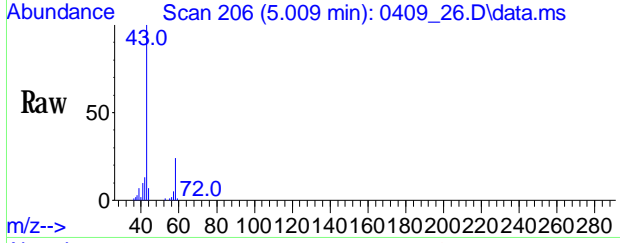
#11
 Ethanol
 Conc: 8S 2.158 ppbv
 RT: 4.652 min Scan# 162
 Delta R.T. -0.008 min
 Lab File: 0409_26.D
 Acq: 09 Apr 2019 10:03 pm

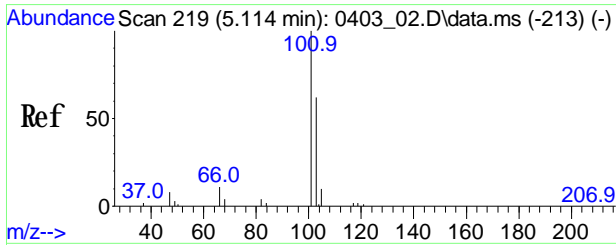
Tgt Ion	Ratio	Resp	Lower	Upper
45	100			
46	38.6	29.9		44.9
43	26.7	22.7		34.1



#12
 Acetone
 Conc: 8S 2.909 ppbv
 RT: 5.009 min Scan# 206
 Delta R.T. -0.016 min
 Lab File: 0409_26.D
 Acq: 09 Apr 2019 10:03 pm

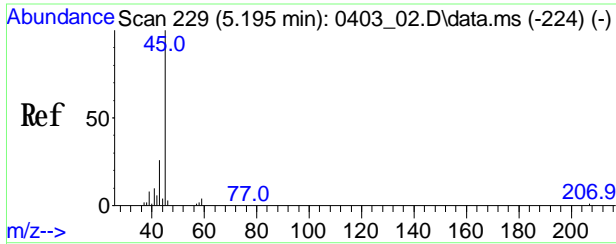
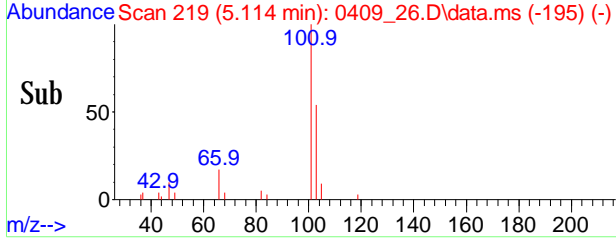
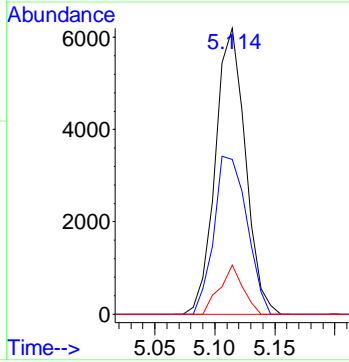
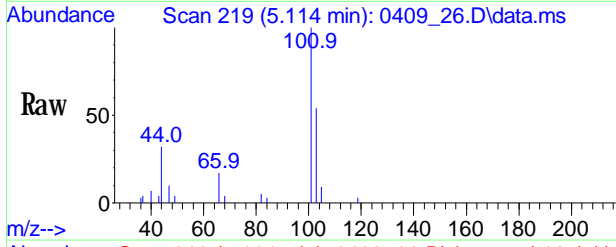
Tgt Ion	Ratio	Resp	Lower	Upper
43	100			
58	23.7	25.9		38.9#





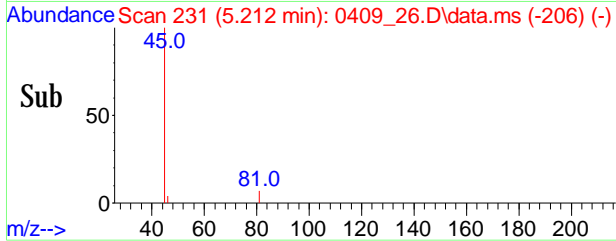
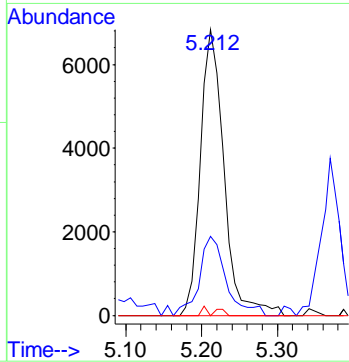
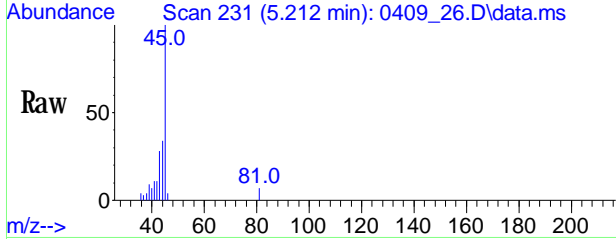
#13
 Trichlorofluoromethane
 Conc: 8S 0.263 ppbv
 RT: 5.114 min Scan# 219
 Delta R.T. -0.008 min
 Lab File: 0409_26.D
 Acq: 09 Apr 2019 10:03 pm

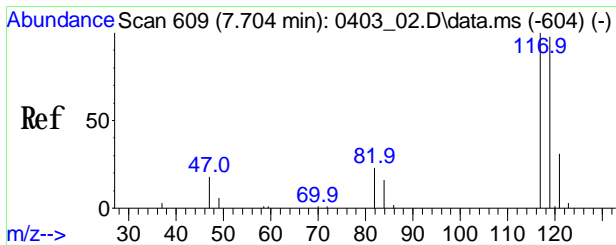
Tgt Ion	Ratio	Resp	Lower	Upper
101	100	10774		
103	60.5	51.6	77.4	
66	13.2	9.4	14.0	



#14
 Isopropylalcohol
 Conc: 8S 0.515 ppbv
 RT: 5.212 min Scan# 231
 Delta R.T. -0.000 min
 Lab File: 0409_26.D
 Acq: 09 Apr 2019 10:03 pm

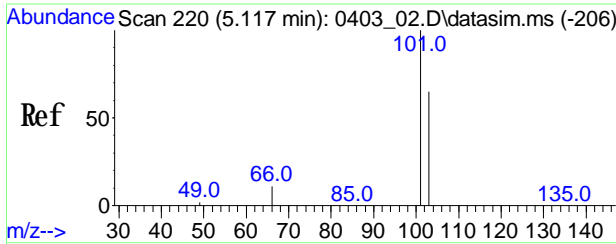
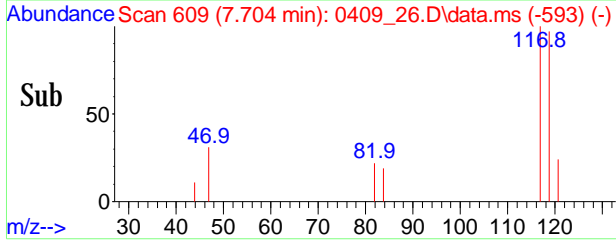
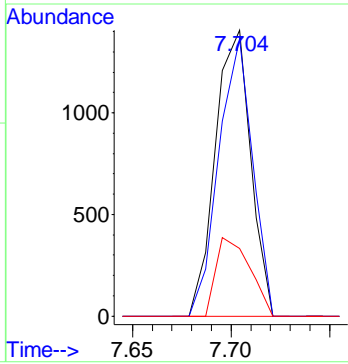
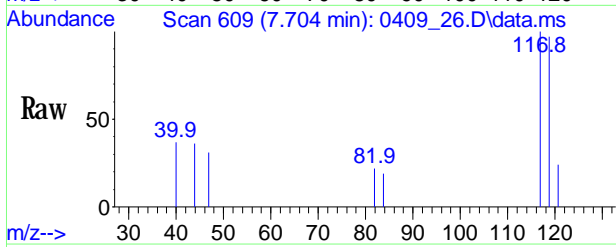
Tgt Ion	Ratio	Resp	Lower	Upper
45	100	14813		
43	31.3	18.6	27.8#	
59	0.7	3.7	5.5#	





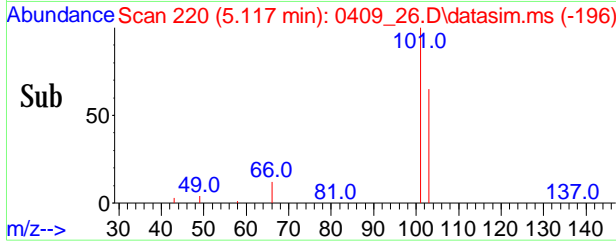
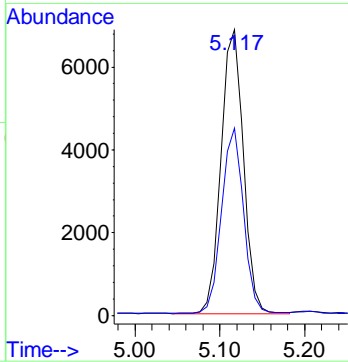
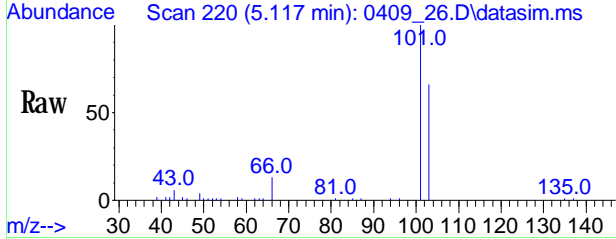
#34
 Carbon Tetrachloride
 Conc: 8S Below Cal
 RT: 7.704 min Scan# 609
 Delta R.T. 0.000 min
 Lab File: 0409_26.D
 Acq: 09 Apr 2019 10:03 pm

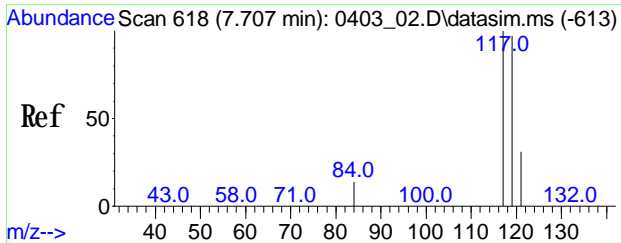
Tgt Ion	Ratio	Resp	Lower	Upper
117	100	1736		
119	92.7	75.8		115.8
121	26.3	10.7		50.7



#84
 Trichlorofluoromethane (sim)
 Conc: 8S 0.226 ppby
 RT: 5.117 min Scan# 220
 Delta R.T. -0.008 min
 Lab File: 0409_26.D
 Acq: 09 Apr 2019 10:03 pm

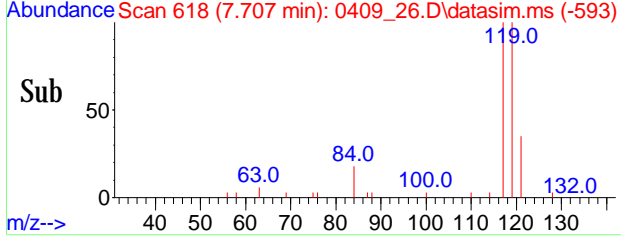
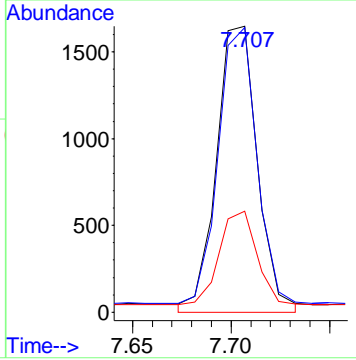
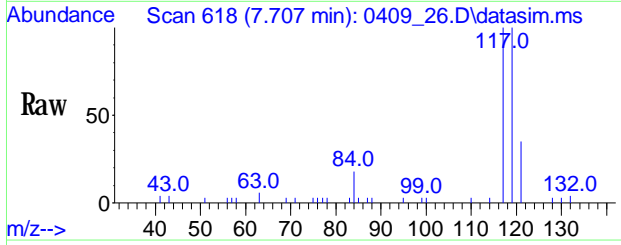
Tgt Ion	Ratio	Resp	Lower	Upper
101	100	12520		
103	63.8	51.9		77.9





#87
 Carbon Tetrachloride(sim)
 Conc: 8S 0.080 ppbv
 RT: 7.704 min Scan# 618
 Delta R.T. 0.000 min
 Lab File: 0409_26.D
 Acq: 09 Apr 2019 10:03 pm

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	1736		
119	92.7	76.6	115.0	
121	26.3	24.6	36.8	



1
AIR ANALYSIS DATA SHEET

CLIENT ID

AA-1

Client:	WALDENE	Lab:	Phoenix Env. Labs
SDG No.:	GCC90508	Lab Sample ID:	CC90519
Canister:	19854	Lab File ID:	0409_27.D
Instrument:	CHEM20	Column:	RTX-1 60M
Purge Volume	200	(cc)	Date Received:
			04/08/19
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	0.472		0.202	0.202	r
74-87-3	Chloromethane	0.638		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	2.44	S	0.531	0.531	r
67-64-1	Acetone	1.79	S	0.421	0.421	r
75-69-4	Trichlorofluoromethane	0.253		0.178	0.178	r
67-63-0	Isopropylalcohol	0.575	S	0.407	0.407	r
107-13-1	Acrylonitrile	0.461	U	0.461	0.461	r
75-09-2	Methylene Chloride	0.864	U	0.864	0.864	r
75-15-0	Carbon Disulfide	0.471		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
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
630-20-6	1,1,1,2-Tetrachloroethane	0.146	U	0.146	0.146	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)	0.078	U	0.078	0.078	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

AA-1

Client: WALDENE Lab: Phoenix Env. Labs

SDG No.: GCC90508 Lab Sample ID: CC90519

Canister: 19854 Lab File ID: 0409_27.D

Instrument: CHEM20 Column: RTX-1 60M Date Received: 04/08/19

Purge Volume 200 (cc) Date Analyzed: 04/09/19

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	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)	0.083		0.032	0.032	r
75-35-4	1,1-Dichloroethene(sim)	0.051	U	0.051	0.051	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)	0.051	U	0.051	0.051	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)	0.037	U	0.037	0.037	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)	0.037	U	0.037	0.037	r
75-25-2	Bromoform(sim)	0.097	U	0.097	0.097	r
179601-23-1	m,p-Xylene(sim)	0.230	U	0.230	0.230	r
79-34-5	1,1,1,2-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

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2019\CHEM20\04APR\09\
 Data File : 0409_27.D
 Acq On : 09 Apr 2019 10:44 pm
 Operator : CORTEX\ms
 Client ID : AA-1
 Lab ID : CC90519
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 10 09:36:29 2019
 Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_0409.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Wed Apr 10 09:07:16 2019
 Response via : Initial Calibration

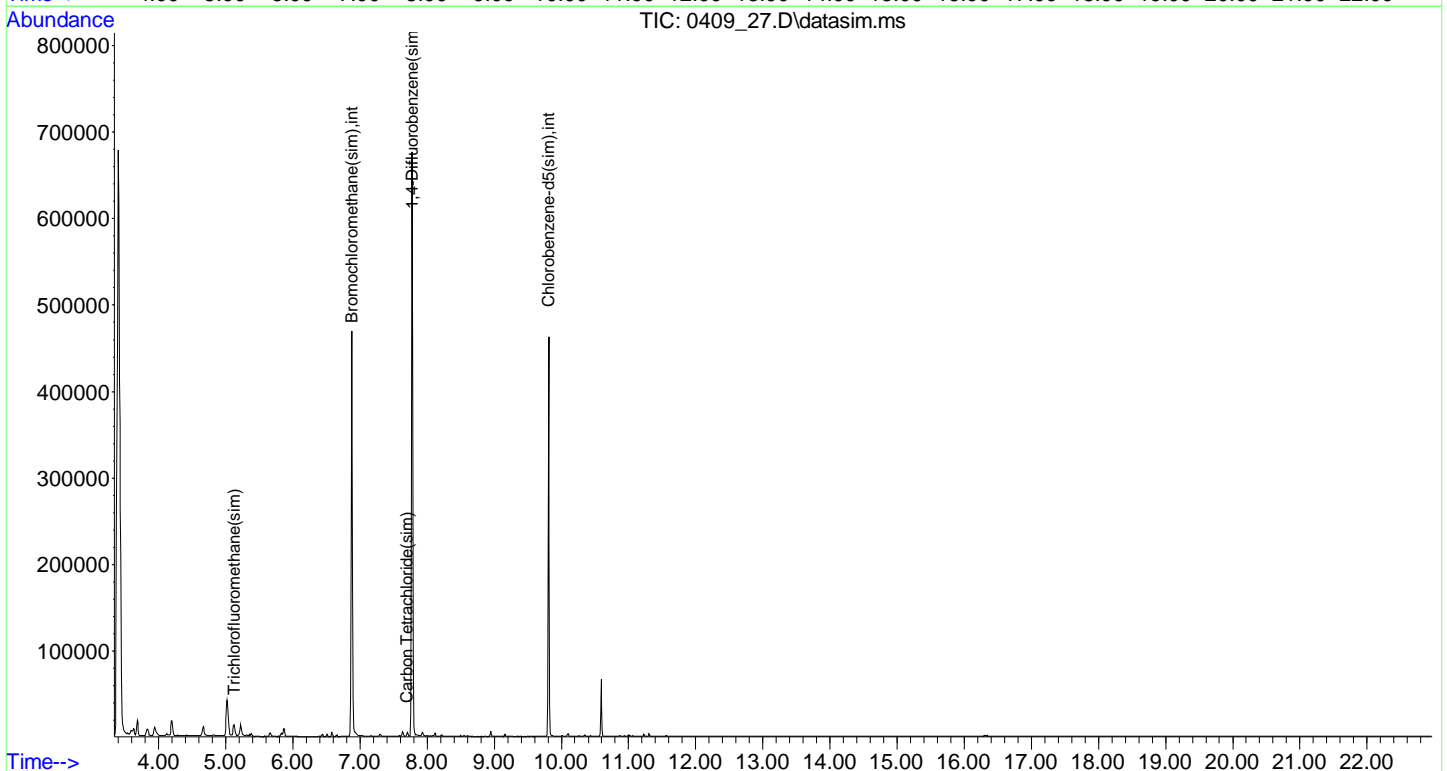
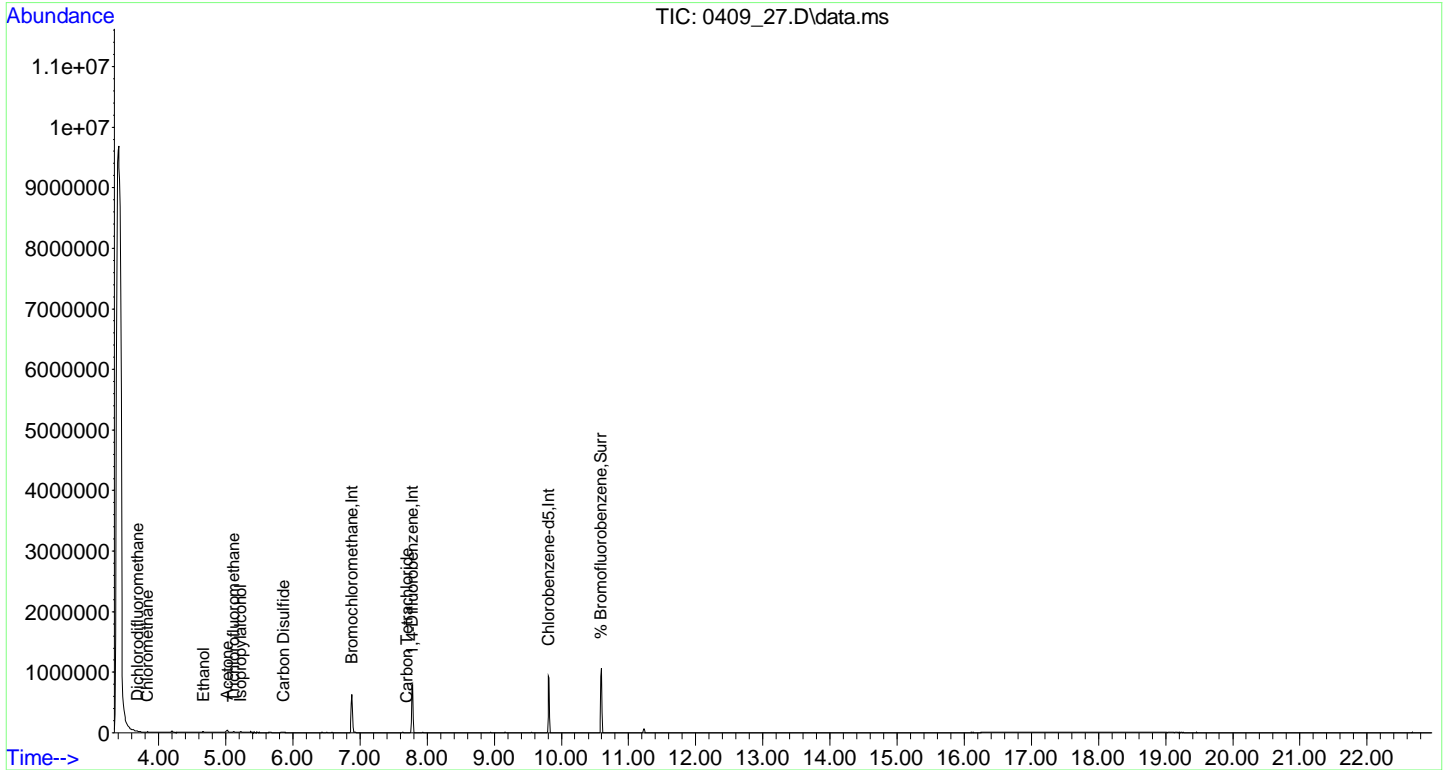
Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
Internal Standards						
1) Bromchloromethane	6.879	130	116764	10.000	ng	0.00
36) 1,4-Difluorobenzene	7.780	114	374302	10.000	ng	0.00
53) Chlorobenzene-d5	9.807	82	183086	10.000	ng	# 0.00
80) Bromchloromethane(sim)	6.882	130	161216	10.000	ng	# 0.00
94) 1,4-Difluorobenzene(sim)	7.775	114	430780	10.000	ng	0.00
104) Chlorobenzene-d5(sim)	9.810	82	183192	10.000	ng	# 0.00
System Monitoring Compounds						
62) % Bromfluorobenzene	10.596	95	239536	9.980	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	99.80%
Target Compounds						
3) Dichlorodifluoromethane	3.687	85	14118	0.471	ppbv#	94
4) Chloromethane	3.833	50	7976	0.638	ppbv	95
11) Ethanol	4.668	45	12240	2.436	ppbv	94
12) Acetone	5.025	43	46839	1.794	ppbv#	83
13) Trichlorofluoromethane	5.122	101	9916	0.253	ppbv	97
14) Isopropylalcohol	5.228	45	15805	0.575	ppbv#	99
20) Carbon Disulfide	5.864	76	12050	0.471	ppbv	98
34) Carbon Tetrachloride	7.704	117	1735	0.079	ppbv	95
84] Trichlorofluoromethane...	5.125	101	12389	0.230	ppbv	99
87] Carbon Tetrachloride(sim)	7.704	117	1735	0.083	ppbv	95

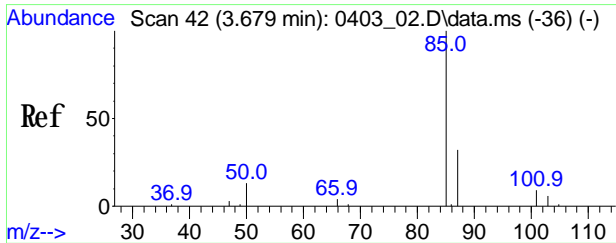
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2019\CHEM20\04APR\09\
Data File : 0409_27.D
Acq On : 09 Apr 2019 10:44 pm
Operator : CORTEX\nms
Client ID : AA-1
Lab ID : CC90519
ALS Vial : 1 Sample Multiplier: 1

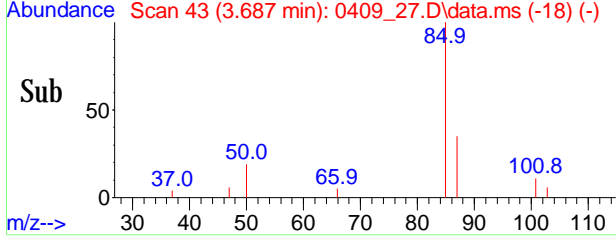
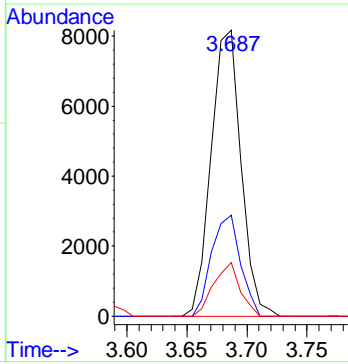
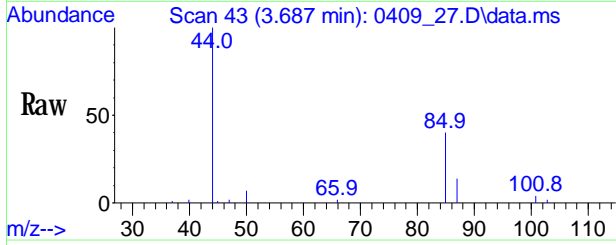
Quant Time: Apr 10 09:36:29 2019
Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_0409.M
Quant Title : VOA Standards for 5 point calibration
Last Update : Wed Apr 10 09:07:16 2019
Response via : Initial Calibration





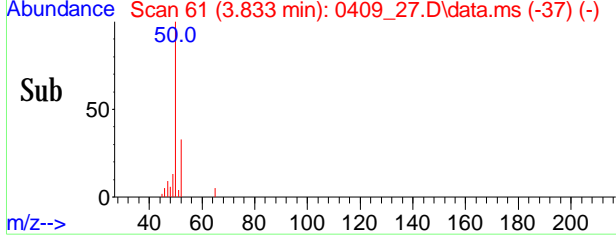
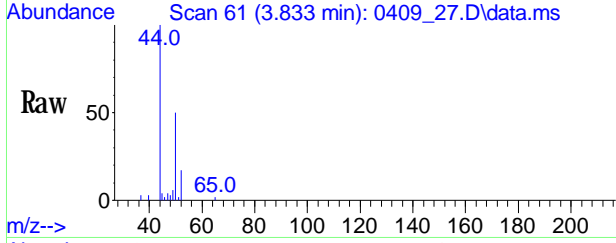
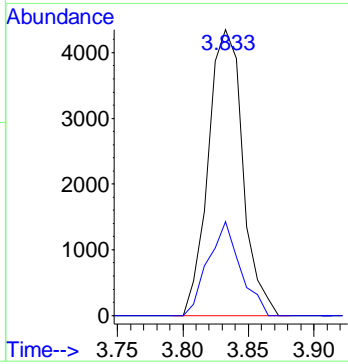
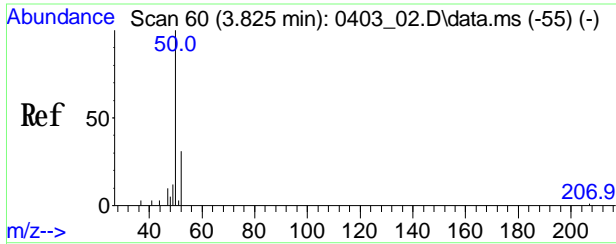
#3
 Dichlorodifluoromethane
 Conc: 8S 0.471 ppby
 RT: 3.687 min Scan# 43
 Delta R.T. 0.000 min
 Lab File: 0409_27.D
 Acq: 09 Apr 2019 10:44 pm

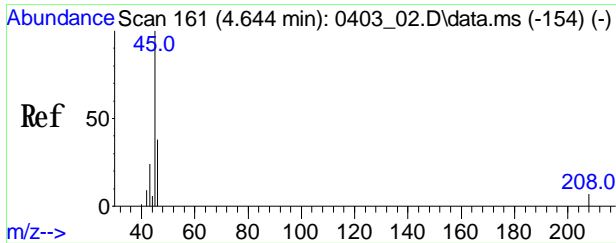
Tgt Ion	Ratio	Resp	Upper
85	100	14118	
87	34.1	25.6	38.4
50	16.4	9.4	14.2#



#4
 Chloromethane
 Conc: 8S 0.638 ppby
 RT: 3.833 min Scan# 61
 Delta R.T. -0.008 min
 Lab File: 0409_27.D
 Acq: 09 Apr 2019 10:44 pm

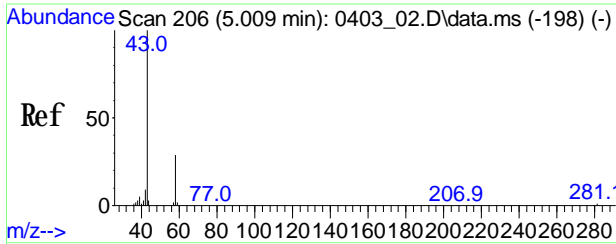
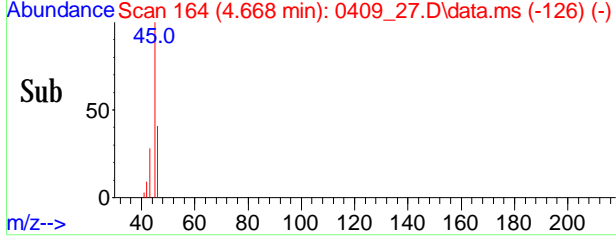
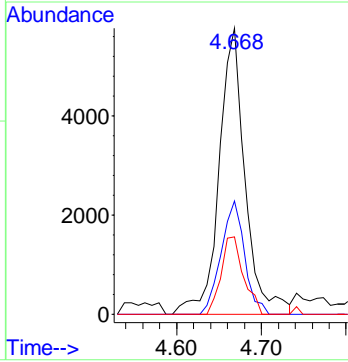
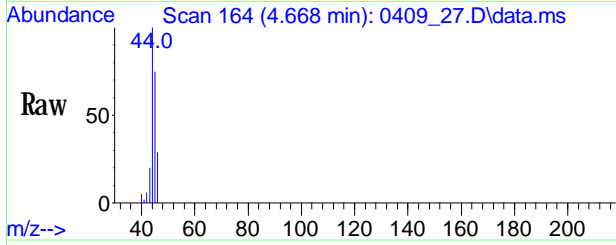
Tgt Ion	Ratio	Resp	Upper
50	100	7976	
52	30.6	13.6	53.6





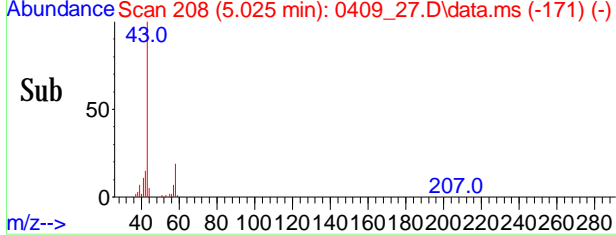
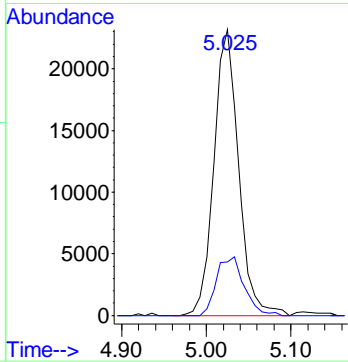
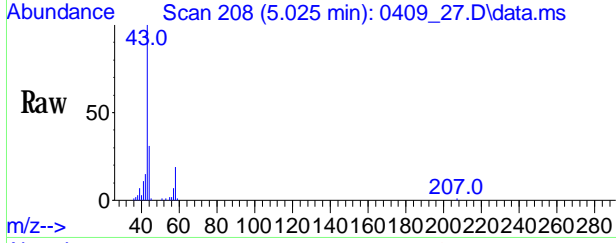
#11
 Ethanol
 Conc: 8S 2.436 ppby
 RT: 4.668 min Scan# 164
 Delta R.T. 0.008 min
 Lab File: 0409_27.D
 Acq: 09 Apr 2019 10:44 pm

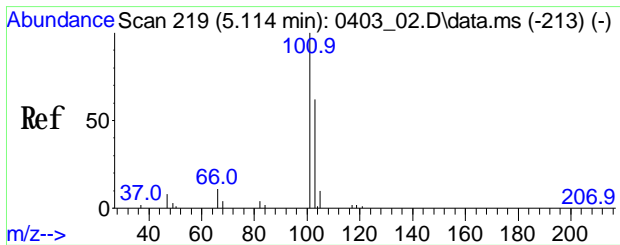
Tgt Ion	Ratio	Resp	Lower	Upper
45	100			
46	35.6	29.9		44.9
43	23.3	22.7		34.1



#12
 Acetone
 Conc: 8S 1.794 ppby
 RT: 5.025 min Scan# 208
 Delta R.T. 0.000 min
 Lab File: 0409_27.D
 Acq: 09 Apr 2019 10:44 pm

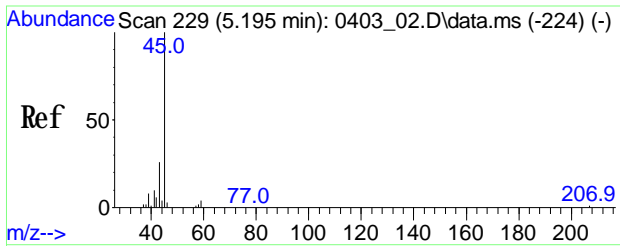
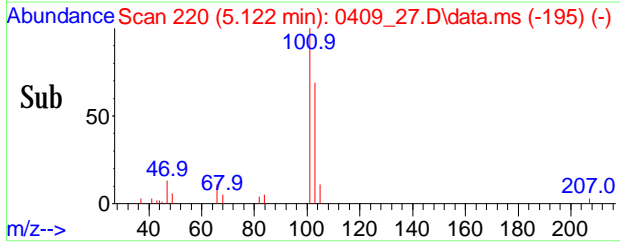
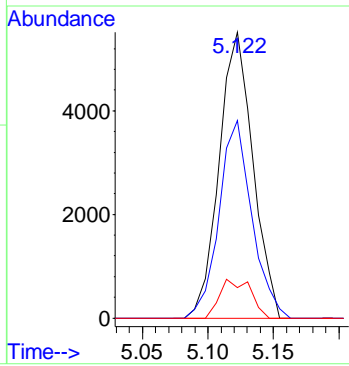
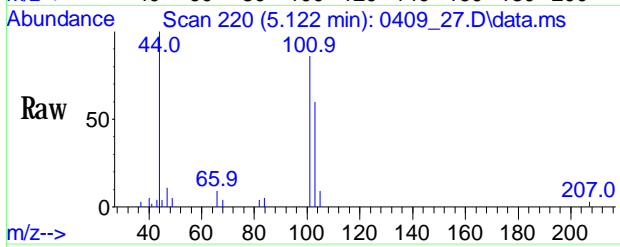
Tgt Ion	Ratio	Resp	Lower	Upper
43	100			
58	22.9	25.9		38.9#





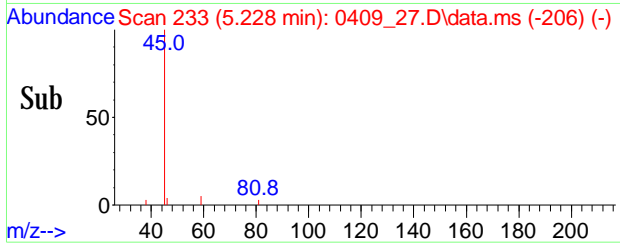
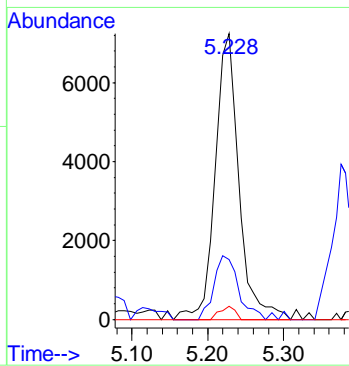
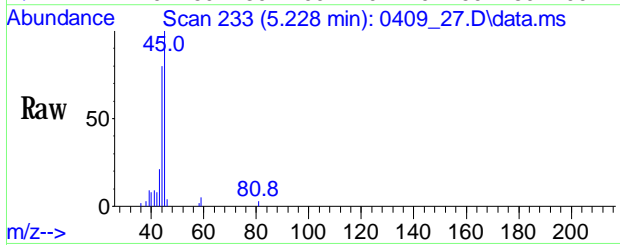
#13
 Trichlorofluoromethane
 Conc: 8S 0.253 ppby
 RT: 5.122 min Scan# 220
 Delta R.T. 0.000 min
 Lab File: 0409_27.D
 Acq: 09 Apr 2019 10:44 pm

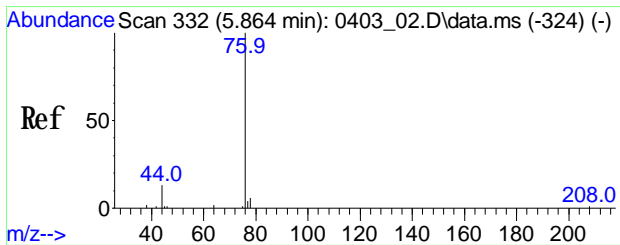
Tgt Ion	Ratio	Resp	Lower	Upper
101	100	9916		
103	67.3	51.6	77.4	
66	12.4	9.4	14.0	



#14
 Isopropylalcohol
 Conc: 8S 0.575 ppby
 RT: 5.228 min Scan# 233
 Delta R.T. 0.016 min
 Lab File: 0409_27.D
 Acq: 09 Apr 2019 10:44 pm

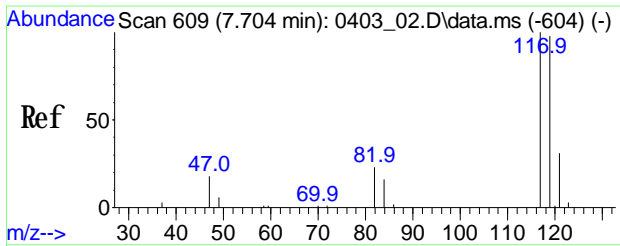
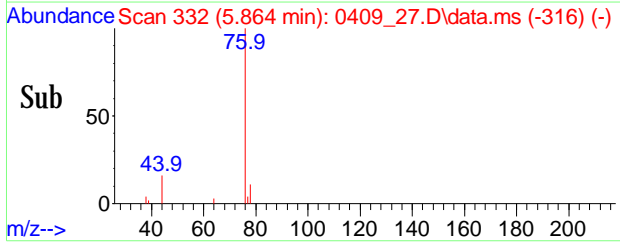
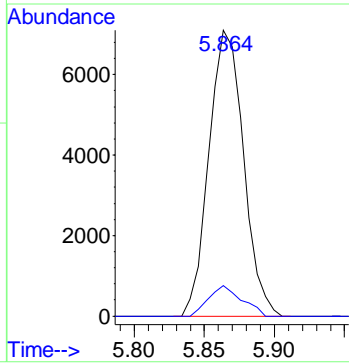
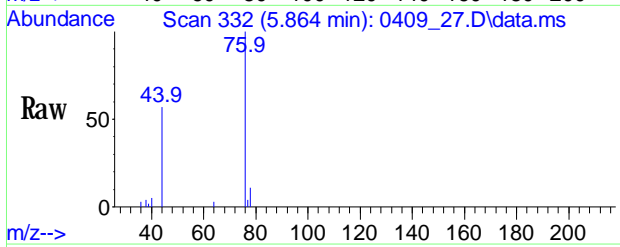
Tgt Ion	Ratio	Resp	Lower	Upper
45	100	15805		
43	23.0	18.6	27.8	
59	3.0	3.7	5.5#	





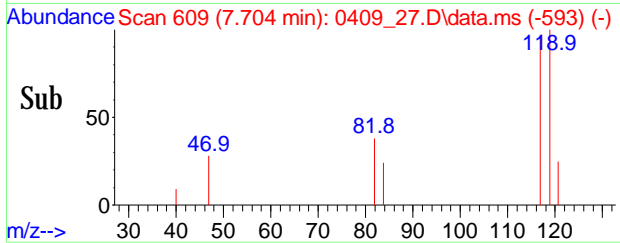
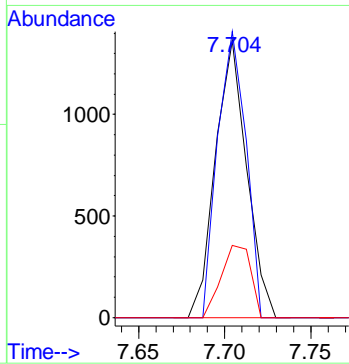
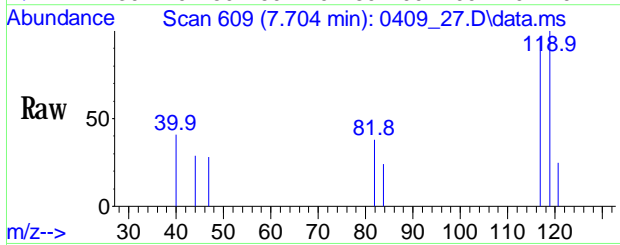
#20
Carbon Disulfide
 Conc: 8S 0.471 ppbv
 RT: 5.864 min Scan# 332
 Delta R.T. -0.006 min
 Lab File: 0409_27.D
 Acq: 09 Apr 2019 10:44 pm

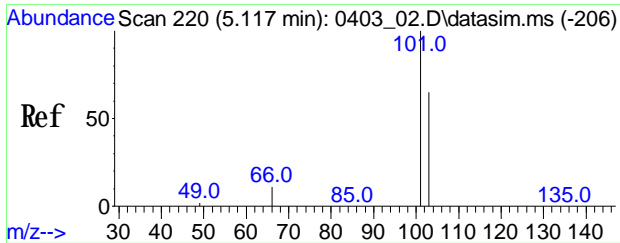
Tgt Ion	Ratio	Resp	Lower	Upper
76	100	12050		
78	10.2	7.6		11.4



#34
Carbon Tetrachloride
 Conc: 8S Below Cal
 RT: 7.704 min Scan# 609
 Delta R.T. 0.000 min
 Lab File: 0409_27.D
 Acq: 09 Apr 2019 10:44 pm

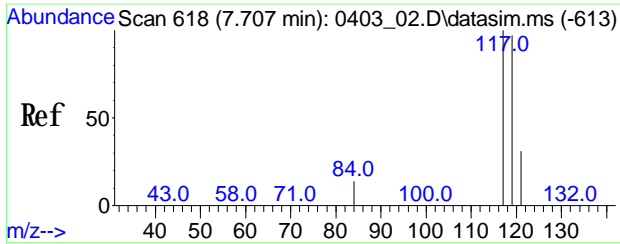
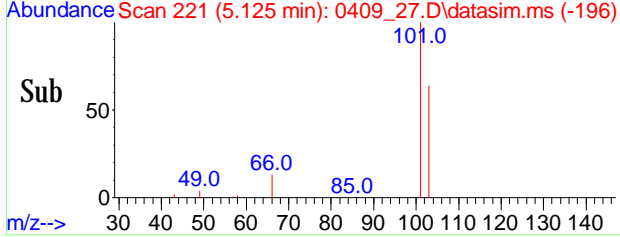
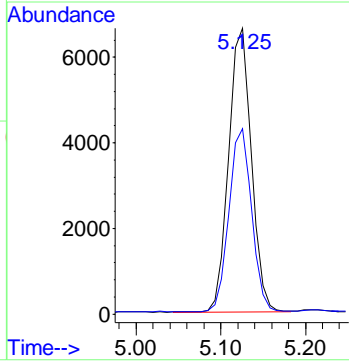
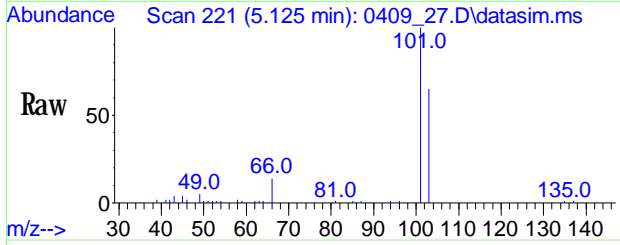
Tgt Ion	Ratio	Resp	Lower	Upper
117	100	1735		
119	93.0	75.8		115.8
121	24.7	10.7		50.7





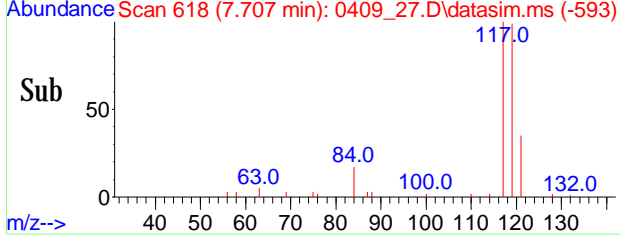
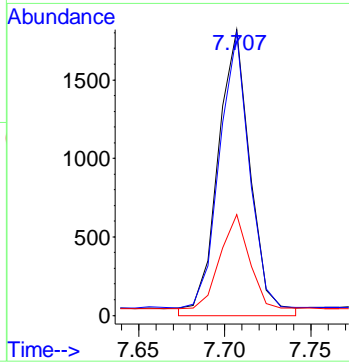
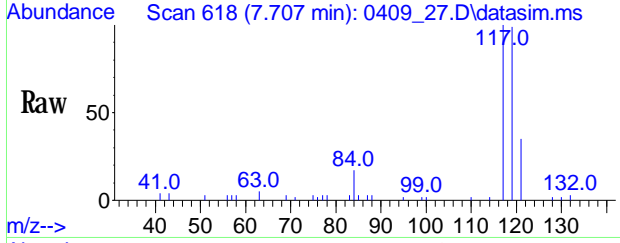
#84
 Trichlorofluoromethane(sim)
 Conc: 8S 0.230 ppbv
 RT: 5.125 min Scan# 221
 Delta R.T. 0.000 min
 Lab File: 0409_27.D
 Acq: 09 Apr 2019 10:44 pm

Tgt Ion: 101 Resp: 12389
 Ion Ratio Lower Upper
 101 100
 103 64.1 51.9 77.9



#87
 Carbon Tetrachloride(sim)
 Conc: 8S 0.083 ppbv
 RT: 7.704 min Scan# 618
 Delta R.T. 0.000 min
 Lab File: 0409_27.D
 Acq: 09 Apr 2019 10:44 pm

Tgt Ion: 117 Resp: 1735
 Ion Ratio Lower Upper
 117 100
 119 93.0 76.6 115.0
 121 24.7 24.6 36.8



1
AIR ANALYSIS DATA SHEET

CLIENT ID

AA-2

Client: WALDENE Lab: Phoenix Env. Labs

SDG No.: GCC90508 Lab Sample ID: CC90520

Canister: 21341 Lab File ID: 0409_28.D

Instrument: CHEM20 Column: RTX-1 60M Date Received: 04/08/19

Purge Volume 200 (cc) Date Analyzed: 04/09/19

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	0.482		0.202	0.202	r
74-87-3	Chloromethane	0.598		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	2.22	S	0.531	0.531	r
67-64-1	Acetone	1.67	S	0.421	0.421	r
75-69-4	Trichlorofluoromethane	0.250		0.178	0.178	r
67-63-0	Isopropylalcohol	0.676	S	0.407	0.407	r
107-13-1	Acrylonitrile	0.461	U	0.461	0.461	r
75-09-2	Methylene Chloride	0.864	U	0.864	0.864	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
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
630-20-6	1,1,1,2-Tetrachloroethane	0.146	U	0.146	0.146	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)	0.078	U	0.078	0.078	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

AA-2

Client:	WALDENE	Lab:	Phoenix Env. Labs
SDG No.:	GCC90508	Lab Sample ID:	CC90520
Canister:	21341	Lab File ID:	0409_28.D
Instrument:	CHEM20	Column:	RTX-1 60M
Date Received:	04/08/19		
Purge Volume	200	(cc)	04/09/19
Date Analyzed:	04/09/19		
Matrix:	AIR	Dilution Factor:	1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	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)	0.080		0.032	0.032	r
75-35-4	1,1-Dichloroethene(sim)	0.051	U	0.051	0.051	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)	0.051	U	0.051	0.051	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)	0.037	U	0.037	0.037	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)	0.037	U	0.037	0.037	r
75-25-2	Bromoform(sim)	0.097	U	0.097	0.097	r
179601-23-1	m,p-Xylene(sim)	0.230	U	0.230	0.230	r
79-34-5	1,1,1,2-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

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2019\CHEM20\04APR\09\
 Data File : 0409_28.D
 Acq On : 09 Apr 2019 11:25 pm
 Operator : CORTEX\ms
 Client ID : AA-2
 Lab ID : CC90520
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 10 09:36:44 2019
 Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_0409.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Wed Apr 10 09:07:16 2019
 Response via : Initial Calibration

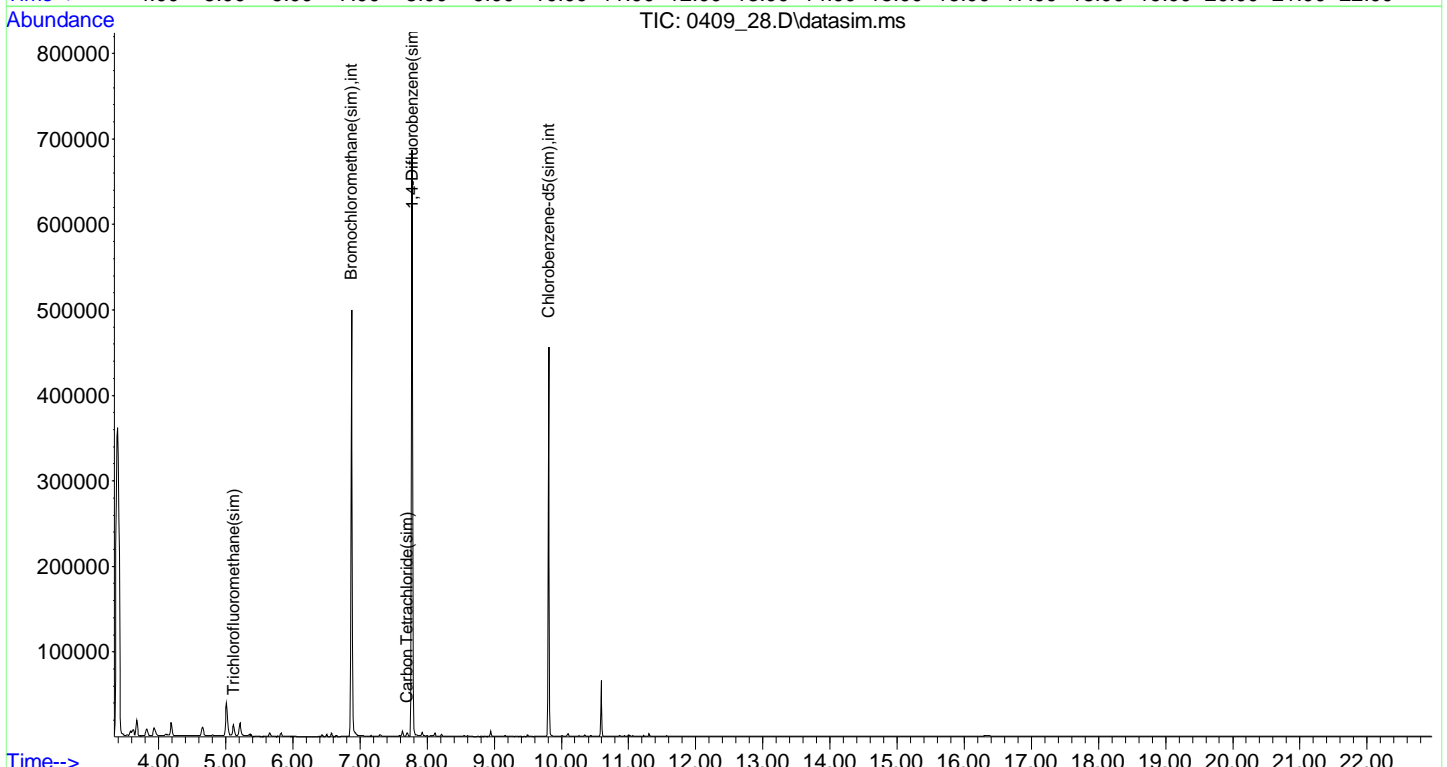
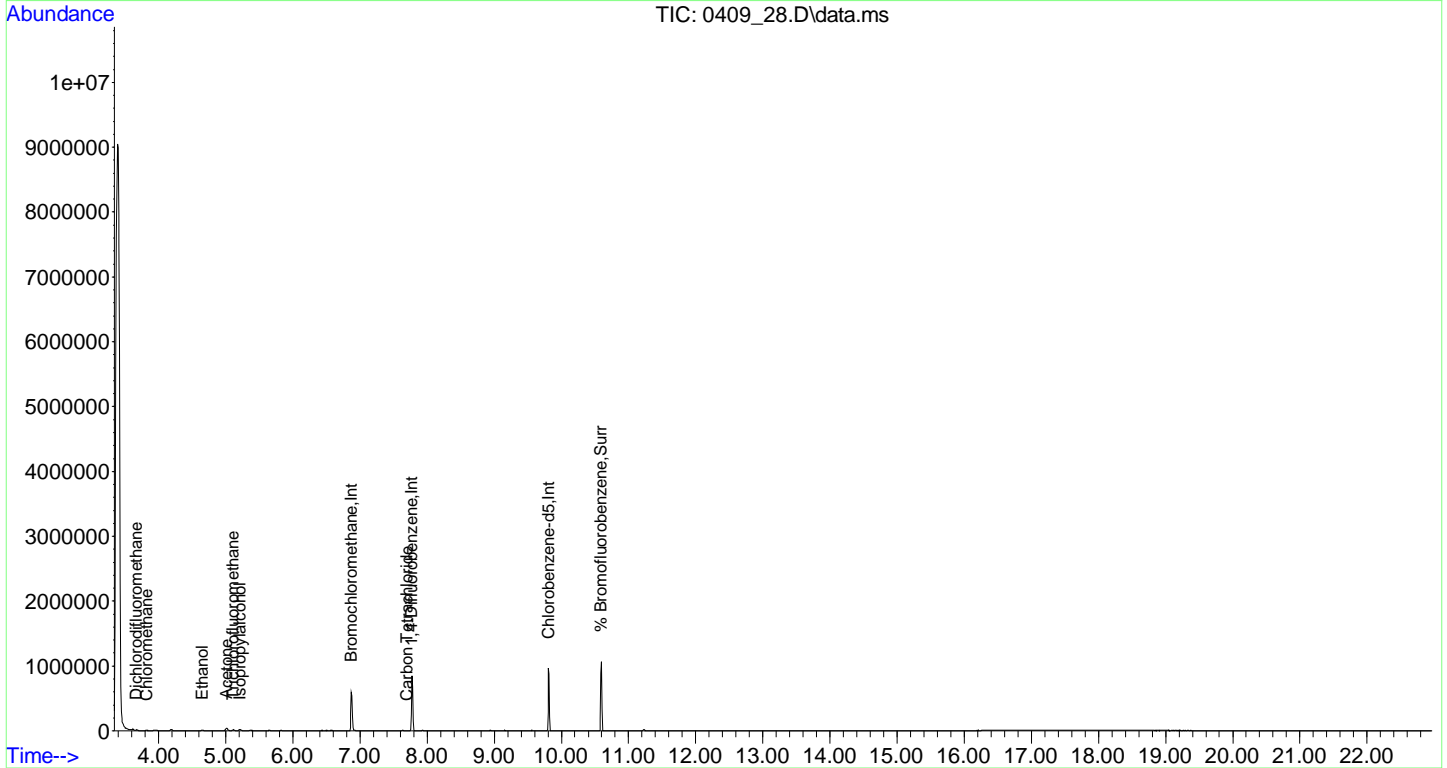
Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
Internal Standards						
1) Bromchloromethane	6.871	130	115623	10.000	ng	0.00
36) 1,4-Difluorobenzene	7.772	114	365856	10.000	ng	0.00
53) Chlorobenzene-d5	9.807	82	179920	10.000	ng	# 0.00
80) Bromchloromethane(sim)	6.874	130	159220	10.000	ng	# 0.00
94) 1,4-Difluorobenzene(sim)	7.775	114	423143	10.000	ng	0.00
104) Chlorobenzene-d5(sim)	9.810	82	180033	10.000	ng	# 0.00
System Monitoring Compounds						
62) % Bromfluorobenzene	10.596	95	236679	10.034	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	100.30%
Target Compounds						
3) Dichlorodifluoromethane	3.670	85	14302	0.482	ppbv#	96
4) Chloromethane	3.824	50	7405	0.598	ppbv	99
11) Ethanol	4.652	45	11053	2.222	ppbv	97
12) Acetone	5.017	43	43091	1.667	ppbv#	88
13) Trichlorofluoromethane	5.114	101	9710	0.250	ppbv	99
14) Isopropylalcohol	5.212	45	18417	0.676	ppbv#	92
34) Carbon Tetrachloride	7.704	117	1667	0.076	ppbv	92
84) Trichlorofluoromethane...	5.117	101	12358	0.233	ppbv	99
87) Carbon Tetrachloride(sim)	7.704	117	1667	0.080	ppbv	92

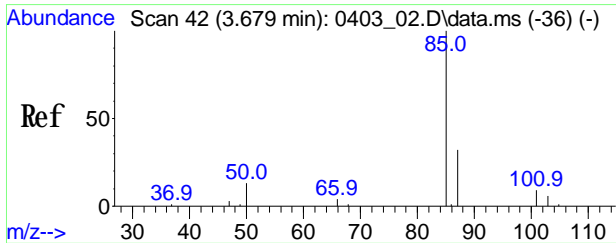
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2019\CHEM20\04APR\09\
Data File : 0409_28.D
Acq On : 09 Apr 2019 11:25 pm
Operator : CORTEX\nms
Client ID : AA-2
Lab ID : CC90520
ALS Vial : 1 Sample Multiplier: 1

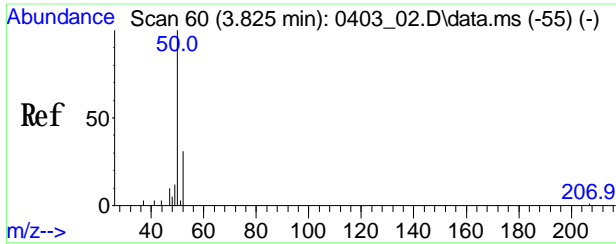
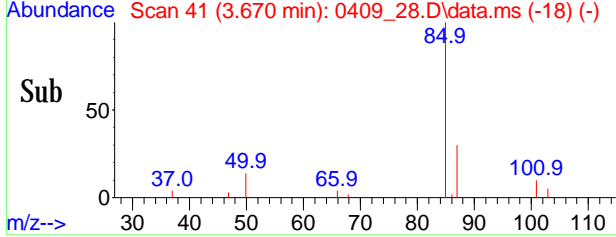
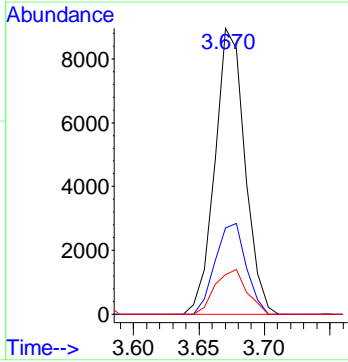
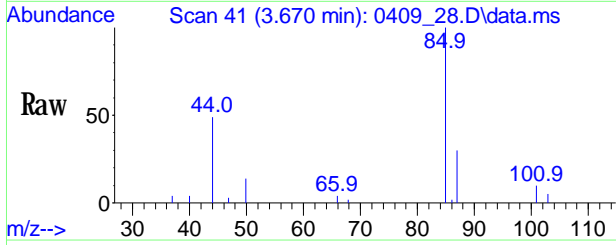
Quant Time: Apr 10 09:36:44 2019
Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_0409.M
Quant Title : VOA Standards for 5 point calibration
Last Update : Wed Apr 10 09:07:16 2019
Response via : Initial Calibration





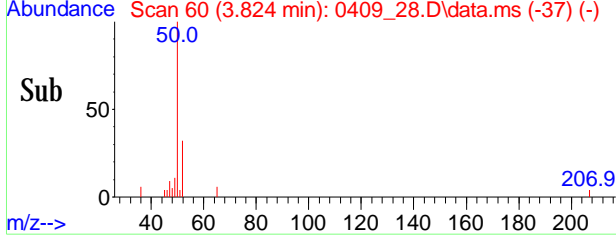
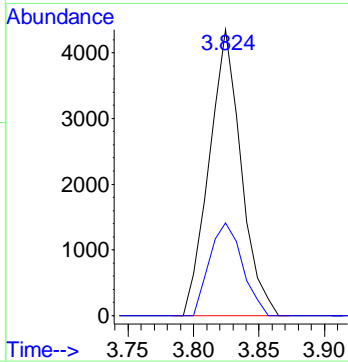
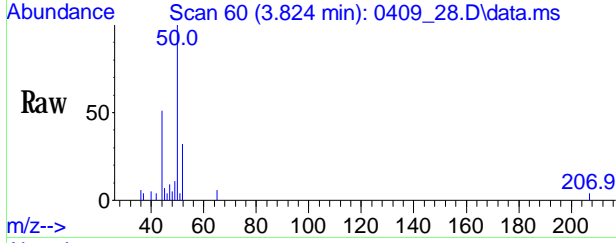
#3
 Dichlorodifluoromethane
 Conc: 8S 0.482 ppby
 RT: 3.670 min Scan# 41
 Delta R.T. -0.016 min
 Lab File: 0409_28.D
 Acq: 09 Apr 2019 11:25 pm

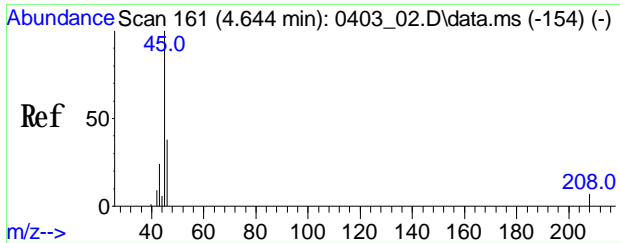
Tgt Ion	Ratio	Resp	Lower	Upper
85	100	14302		
87	32.6	25.6	38.4	
50	16.4	9.4	14.2#	



#4
 Chloromethane
 Conc: 8S 0.598 ppby
 RT: 3.824 min Scan# 60
 Delta R.T. -0.016 min
 Lab File: 0409_28.D
 Acq: 09 Apr 2019 11:25 pm

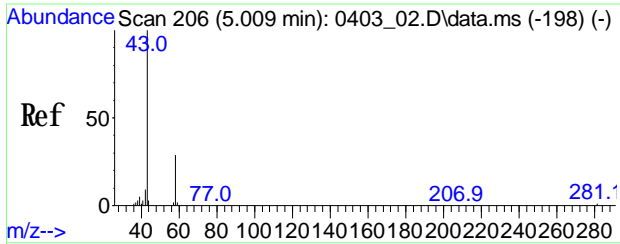
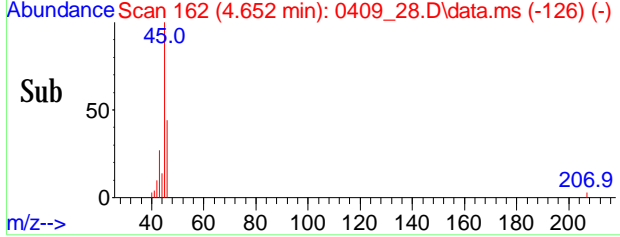
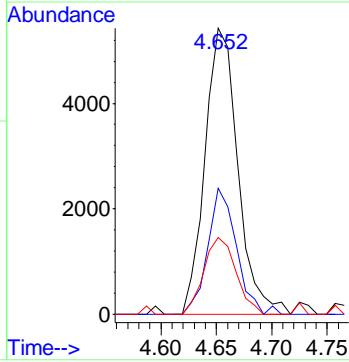
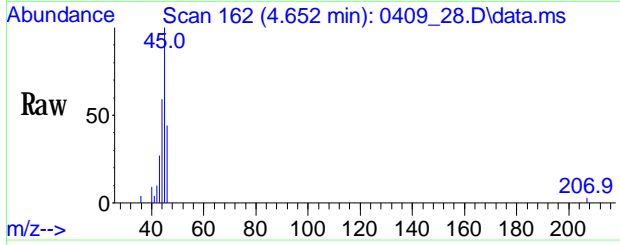
Tgt Ion	Ratio	Resp	Lower	Upper
50	100	7405		
52	33.2	13.6	53.6	





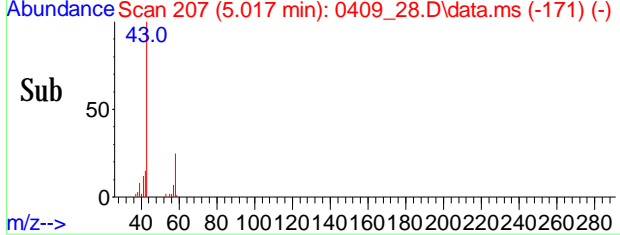
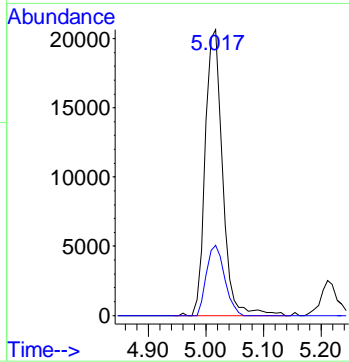
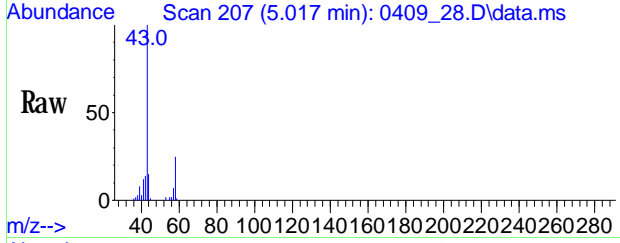
#11
 Ethanol
 Conc: 8S 2.222 ppbv
 RT: 4.652 min Scan# 162
 Delta R.T. -0.008 min
 Lab File: 0409_28.D
 Acq: 09 Apr 2019 11:25 pm

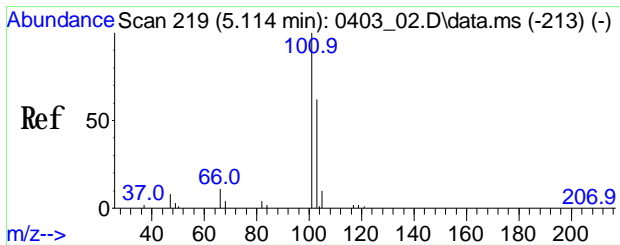
Tgt Ion	Ratio	Resp	Lower	Upper
45	100			
46	38.4	29.9		44.9
43	26.2	22.7		34.1



#12
 Acetone
 Conc: 8S 1.667 ppbv
 RT: 5.017 min Scan# 207
 Delta R.T. -0.008 min
 Lab File: 0409_28.D
 Acq: 09 Apr 2019 11:25 pm

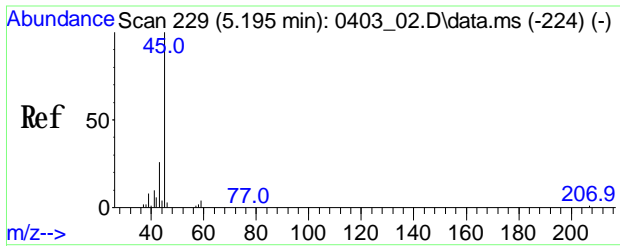
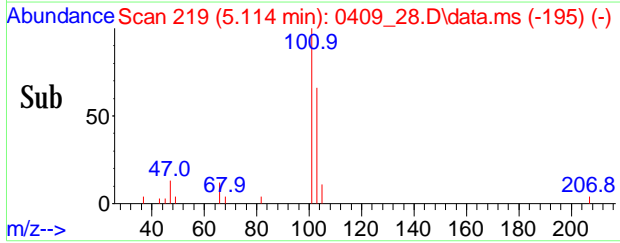
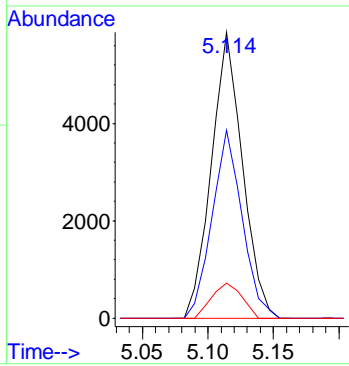
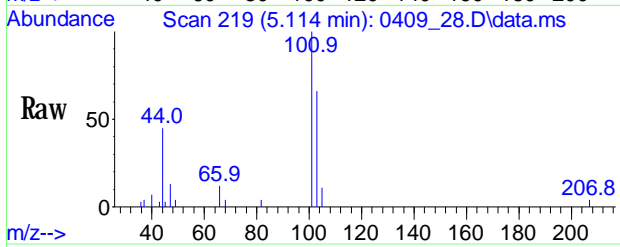
Tgt Ion	Ratio	Resp	Lower	Upper
43	100			
58	25.6	25.9		38.9#





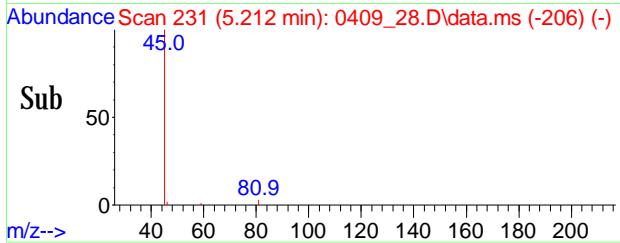
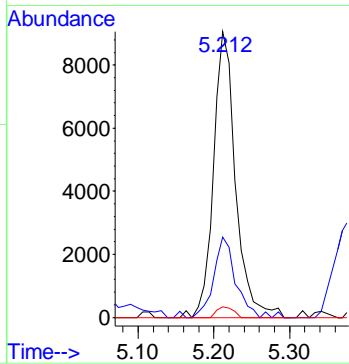
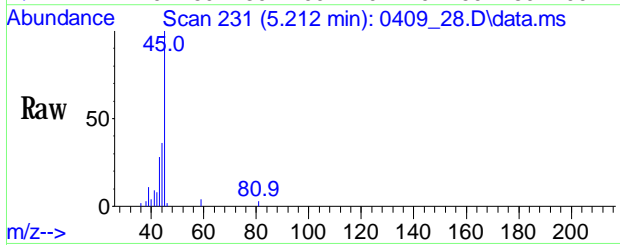
#13
 Trichlorofluoromethane
 Conc: 8S 0.250 ppbv
 RT: 5.114 min Scan# 219
 Delta R.T. -0.008 min
 Lab File: 0409_28.D
 Acq: 09 Apr 2019 11:25 pm

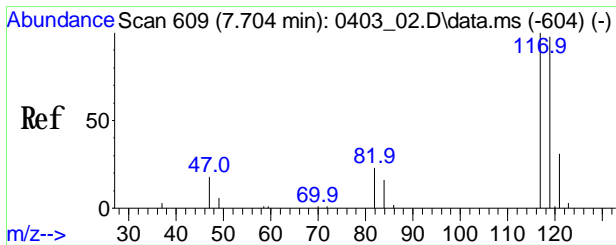
Tgt Ion	Ratio	Resp	Lower	Upper
101	100	9710		
103	63.5	51.6	77.4	
66	11.9	9.4	14.0	



#14
 Isopropylalcohol
 Conc: 8S 0.676 ppbv
 RT: 5.212 min Scan# 231
 Delta R.T. -0.000 min
 Lab File: 0409_28.D
 Acq: 09 Apr 2019 11:25 pm

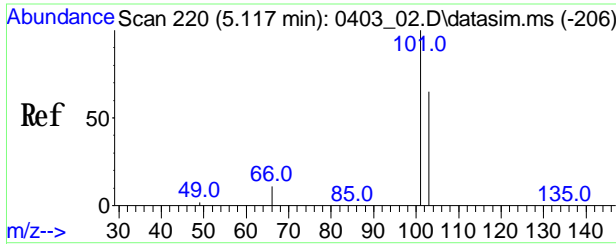
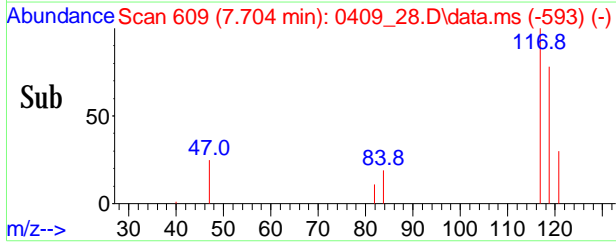
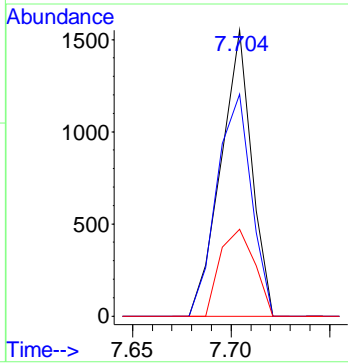
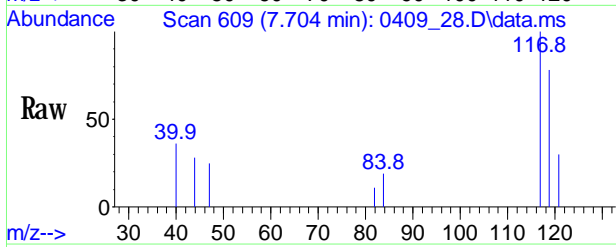
Tgt Ion	Ratio	Resp	Lower	Upper
45	100	18417		
43	27.3	18.6	27.8	
59	2.9	3.7	5.5#	





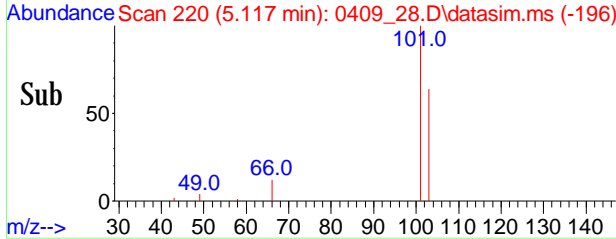
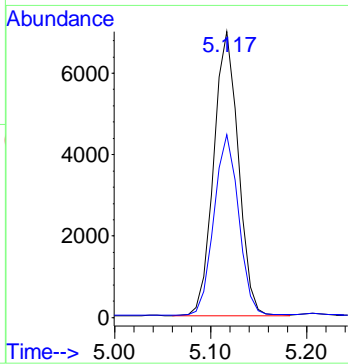
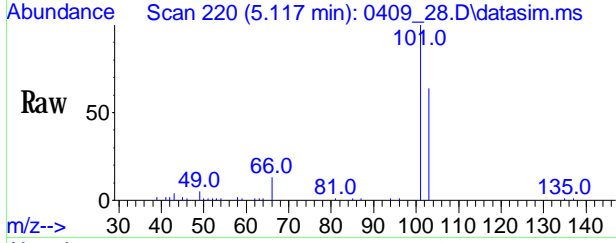
#34
 Carbon Tetrachloride
 Conc: 8S Below Cal
 RT: 7.704 min Scan# 609
 Delta R.T. 0.000 min
 Lab File: 0409_28.D
 Acq: 09 Apr 2019 11:25 pm

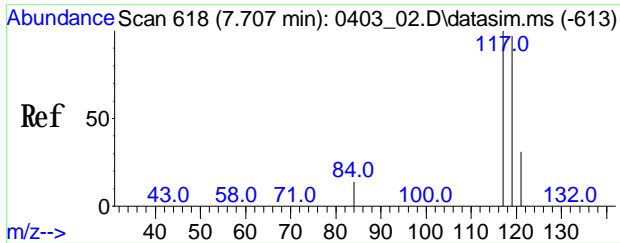
Tgt Ion	Ratio	Resp	Lower	Upper
117	100	1667		
119	87.0	75.8		115.8
121	34.1	10.7		50.7



#84
 Trichlorofluoromethane (sim)
 Conc: 8S 0.233 ppby
 RT: 5.117 min Scan# 220
 Delta R.T. -0.008 min
 Lab File: 0409_28.D
 Acq: 09 Apr 2019 11:25 pm

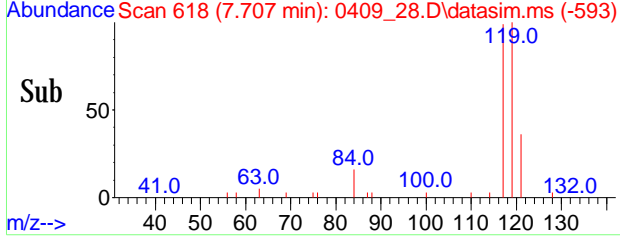
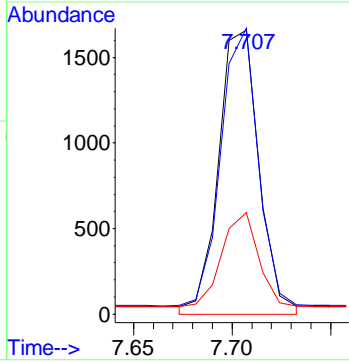
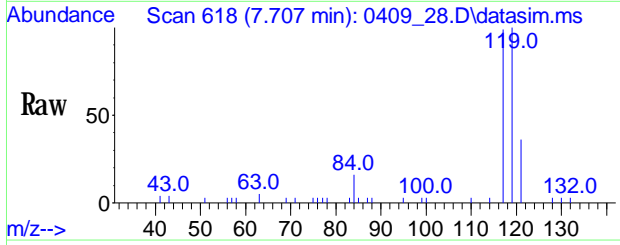
Tgt Ion	Ratio	Resp	Lower	Upper
101	100	12358		
103	63.8	51.9		77.9





#87
 Carbon Tetrachloride(sim)
 Conc: 8S 0.080 ppbv
 RT: 7.704 min Scan# 618
 Delta R.T. 0.000 min
 Lab File: 0409_28.D
 Acq: 09 Apr 2019 11:25 pm

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	1667		
119	87.0	76.6	115.0	
121	34.1	24.6	36.8	



1
AIR ANALYSIS DATA SHEET

CLIENT ID

IA-10

Client:	WALDENE	Lab:	Phoenix Env. Labs
SDG No.:	GCC90508	Lab Sample ID:	CC90521
Canister:	13635	Lab File ID:	0409_29.D
Instrument:	CHEM20	Column:	RTX-1 60M
Purge Volume	200 (cc)	Date Received:	04/08/19
Matrix:	AIR	Date Analyzed:	04/10/19
		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	0.615		0.202	0.202	r
74-87-3	Chloromethane	0.652		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	54.4	ES	0.531	0.531	r
67-64-1	Acetone	17.3	S	0.421	0.421	r
75-69-4	Trichlorofluoromethane	0.319		0.178	0.178	r
67-63-0	Isopropylalcohol	1.76	S	0.407	0.407	r
107-13-1	Acrylonitrile	0.461	U	0.461	0.461	r
75-09-2	Methylene Chloride	34.6	S	0.864	0.864	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	1.31		0.339	0.339	r
110-54-3	Hexane	4.64	S	0.284	0.284	r
141-78-6	Ethyl acetate	1.32		0.278	0.278	r
109-99-9	Tetrahydrofuran	0.926		0.339	0.339	r
71-43-2	Benzene	1.03		0.313	0.313	r
110-82-7	Cyclohexane	1.47		0.291	0.291	r
142-82-5	Heptane	3.20		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	10.2		0.266	0.266	r
591-78-6	2-Hexanone(MBK)	0.244	U	0.244	0.244	r
127-18-4	Tetrachloroethene	1.69		0.037	0.037	r
630-20-6	1,1,1,2-Tetrachloroethane	0.146	U	0.146	0.146	r
108-90-7	Chlorobenzene	0.217	U	0.217	0.217	r
100-41-4	Ethylbenzene	1.67		0.230	0.230	r
179601-23-1	m,p-Xylene	6.33		0.230	0.230	r
100-42-5	Styrene	0.235	U	0.235	0.235	r
95-47-6	o-Xylene	2.06		0.230	0.230	r
98-82-8	Isopropylbenzene	0.204	U	0.204	0.204	r
622-96-8	4-Ethyltoluene	0.419		0.204	0.204	r
108-67-8	1,3,5-Trimethylbenzene	0.375		0.204	0.204	r
95-63-6	1,2,4-Trimethylbenzene	1.58		0.204	0.204	r
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.143	U	0.143	0.143	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

IA-10

Client: WALDENE Lab: Phoenix Env. Labs

SDG No.: GCC90508 Lab Sample ID: CC90521

Canister: 13635 Lab File ID: 0409_29.D

Instrument: CHEM20 Column: RTX-1 60M Date Received: 04/08/19

Purge Volume 200 (cc) Date Analyzed: 04/10/19

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
75-01-4	Vinyl Chloride(sim)	0.078	U	0.078	0.078	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		0.032	0.032	r
75-35-4	1,1-Dichloroethene(sim)	0.051	U	0.051	0.051	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)	0.051	U	0.051	0.051	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)	0.145		0.037	0.037	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
79-34-5	1,1,1,2-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

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2019\CHEM20\04APR\09\
 Data File : 0409_29.D
 Acq On : 10 Apr 2019 12:06 am
 Operator : CORTEX\ms
 Client ID : IA-10
 Lab ID : CC90521
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 10 10:27:37 2019
 Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_0409.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Wed Apr 10 09:07:16 2019
 Response via : Initial Calibration

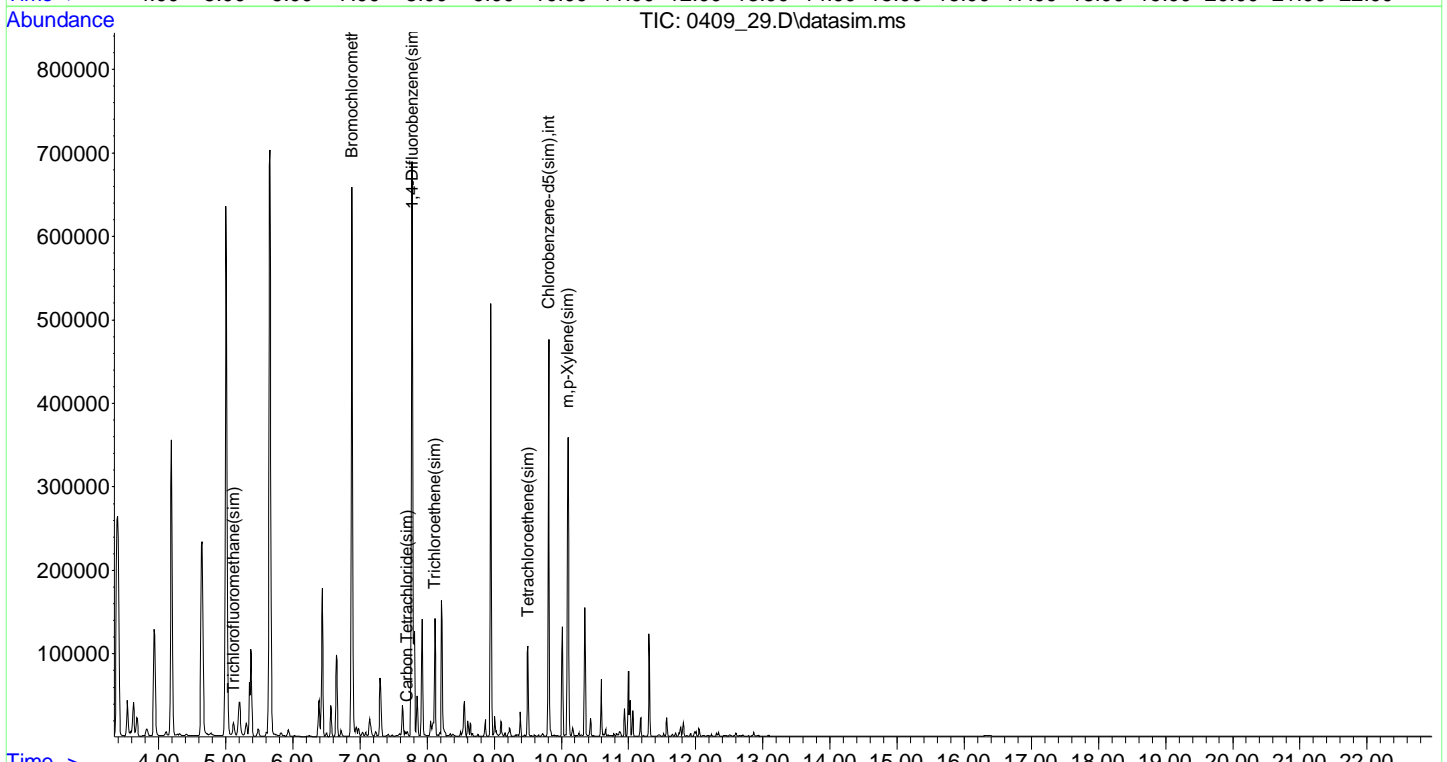
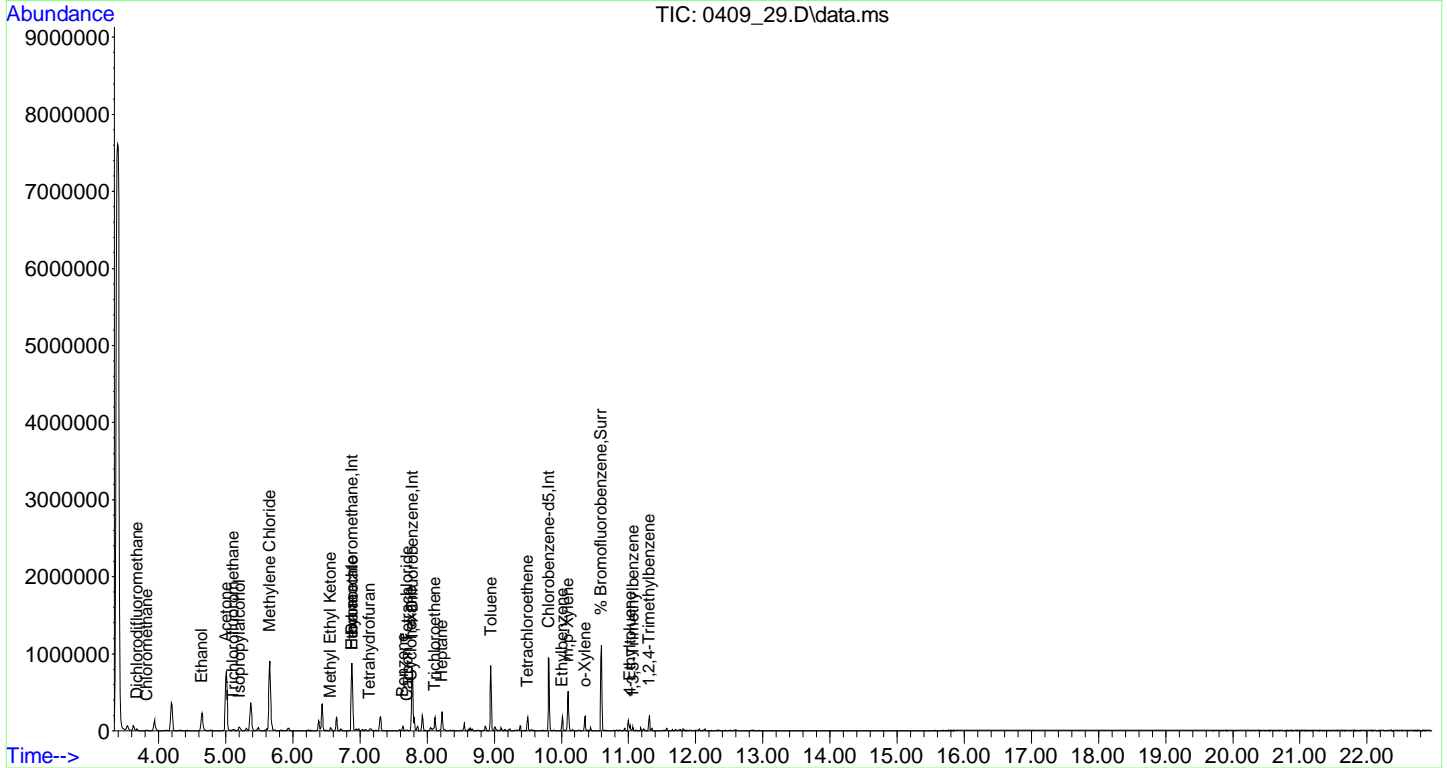
Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
Internal Standards						
1) Bromchloromethane	6.879	130	110707	10.000	ng	0.00
36) 1,4-Difluorobenzene	7.780	114	364770	10.000	ng	0.00
53) Chlorobenzene-d5	9.807	82	186507	10.000	ng	# 0.00
80) Bromchloromethane(sim)	6.882	130	153766	10.000	ng	# 0.00
94) 1,4-Difluorobenzene(sim)	7.775	114	423277	10.000	ng	0.00
104) Chlorobenzene-d5(sim)	9.810	82	187914	10.000	ng	# 0.00
System Monitoring Compounds						
62) % Bromfluorobenzene	10.596	95	249077	10.187	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	101.90%	
Target Compounds						
						Qvalue
3) Dichlorodifluoromethane	3.678	85	17464	0.615	ppbv#	96
4) Chloromethane	3.824	50	7737	0.652	ppbv	95
11) Ethanol	4.644	45	259116	54.395	ppbv	94
12) Acetone	5.009	43	428966	17.331	ppbv#	66
13) Trichlorofluoromethane	5.114	101	11829	0.319	ppbv	98
14) Isopropylalcohol	5.203	45	45996	1.764	ppbv#	96
17) Methylene Chloride	5.655	49	574383	34.622	ppbv#	55
25) Methyl Ethyl Ketone	6.562	43	40822	1.311	ppbv#	75
27) Hexane	6.887	57	83029	4.638	ppbv#	73
29) Ethyl acetate	6.887	61	4577	1.316	ppbv#	76
30) Tetrahydrofuran	7.142	42	12135	0.926	ppbv#	53
33) Benzene	7.636	78	24886	1.025	ppbv#	77
34) Carbon Tetrachloride	7.704	117	1465	0.070	ppbv#	82
35) Cyclohexane	7.763	41	14347	1.470	ppbv#	30
39) Trichloroethene	8.111	130	2214	0.162	ppbv#	84
43) Heptane	8.221	43	58928	3.203	ppbv#	67
48) Toluene	8.948	91	304484	10.180	ppbv#	98
52) Tetrachloroethene	9.497	166	24525	1.693	ppbv#	89
56) Ethylbenzene	10.012	91	73791	1.670	ppbv	99
57) m p-Xylene	10.095	91	213362	6.327	ppbv	93
61) o-Xylene	10.353	91	72710	2.061	ppbv	92
66) 4-Ethyltoluene	11.020	105	19580m	0.419	ppbv	96
67) 1,3,5-Trimethylbenzene	11.066	105	15068	0.375	ppbv#	93
68) 1,2,4-Trimethylbenzene	11.309	105	62241	1.581	ppbv#	81
84) Trichlorofluoromethane...	5.117	101	14080	0.274	ppbv	100
87) Carbon Tetrachloride(sim)	7.704	117	1465	0.073	ppbv#	82
97) Trichloroethene(sim)	8.111	130	2214	0.145	ppbv#	79
103) Tetrachloroethene(sim)	9.497	166	24525	1.475	ppbv	89
106) m p-Xylene(sim)	10.098	91	225848	5.833	ppbv#	92

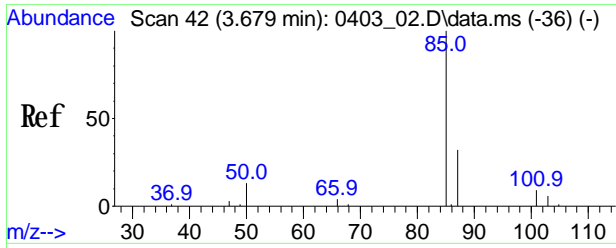
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2019\CHEM20\04APR\09\
Data File : 0409_29.D
Acq On : 10 Apr 2019 12:06 am
Operator : CORTEX\nms
Client ID : IA-10
Lab ID : CC90521
ALS Vial : 1 Sample Multiplier: 1

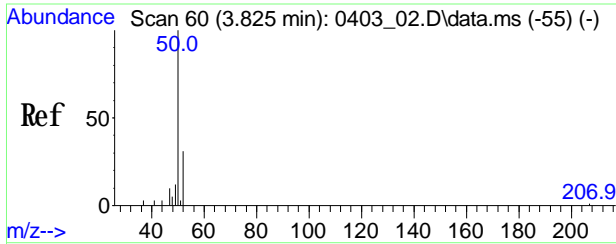
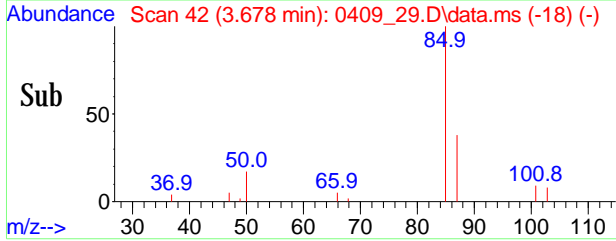
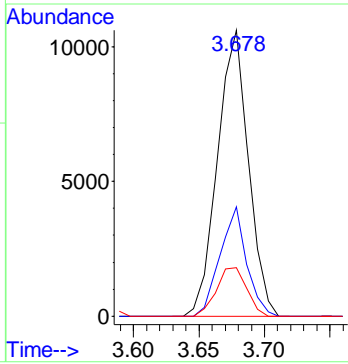
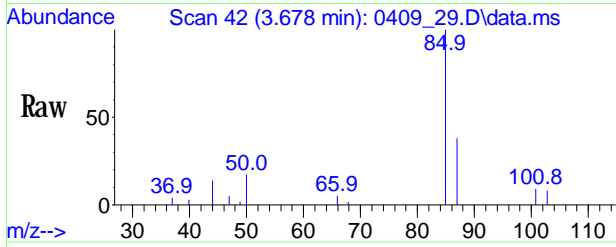
Quant Time: Apr 10 10:27:37 2019
Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_0409.M
Quant Title : VOA Standards for 5 point calibration
Last Update : Wed Apr 10 09:07:16 2019
Response via : Initial Calibration





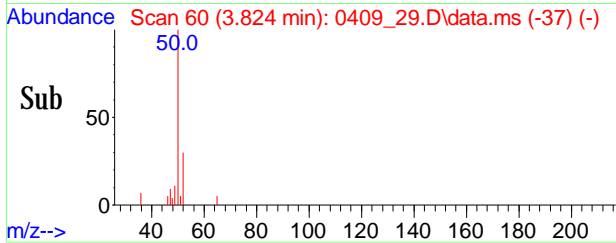
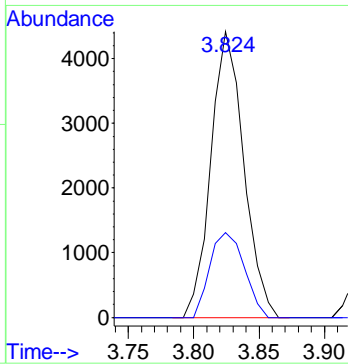
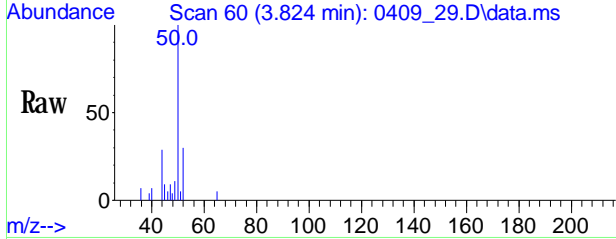
#3
 Dichlorodifluoromethane
 Conc: 8S 0.615 ppby
 RT: 3.678 min Scan# 42
 Delta R.T. -0.008 min
 Lab File: 0409_29.D
 Acq: 10 Apr 2019 12:06 am

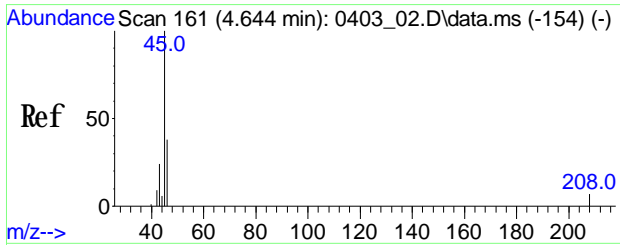
Tgt Ion	Ratio	Resp	Lower	Upper
85	100	17464		
87	32.8	25.6	38.4	
50	16.6	9.4	14.2#	



#4
 Chloromethane
 Conc: 8S 0.652 ppby
 RT: 3.824 min Scan# 60
 Delta R.T. -0.016 min
 Lab File: 0409_29.D
 Acq: 10 Apr 2019 12:06 am

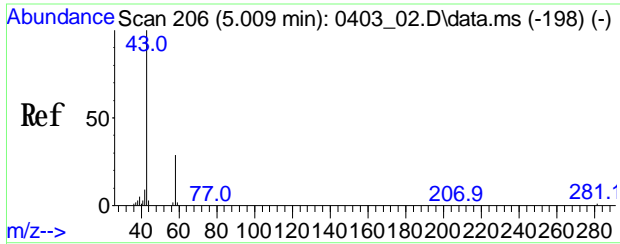
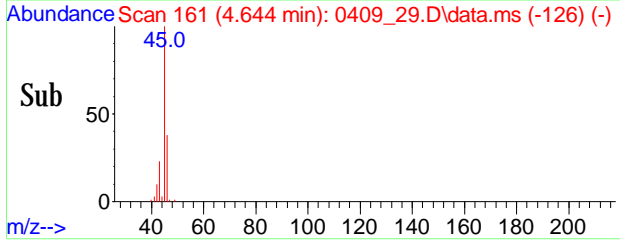
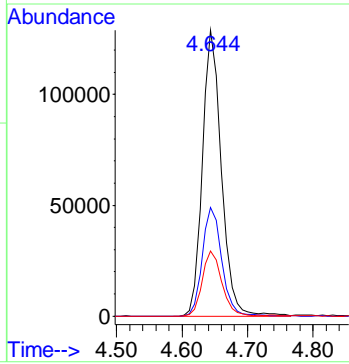
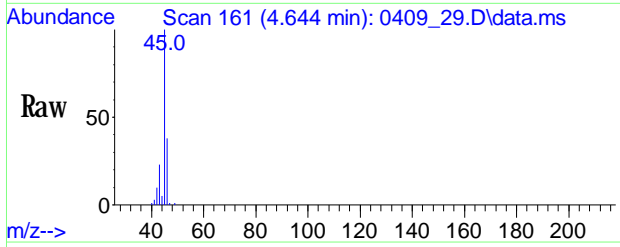
Tgt Ion	Ratio	Resp	Lower	Upper
50	100	7737		
52	31.0	13.6	53.6	





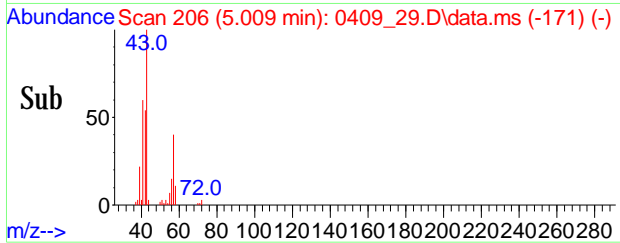
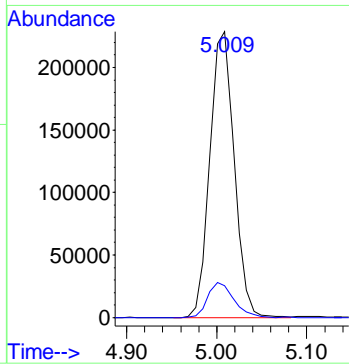
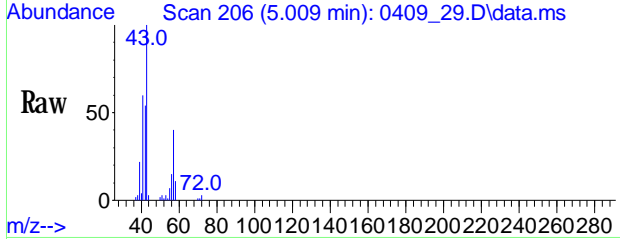
#11
 Ethanol
 Conc: 8S 54.395 ppbv
 RT: 4.644 min Scan# 161
 Delta R.T. -0.016 min
 Lab File: 0409_29.D
 Acq: 10 Apr 2019 12:06 am

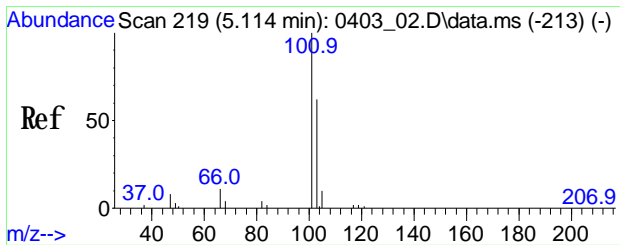
Tgt Ion	Ratio	Resp	Lower	Upper
45	100			
46	39.0	29.9		44.9
43	23.4	22.7		34.1



#12
 Acetone
 Conc: 8S 17.331 ppbv
 RT: 5.009 min Scan# 206
 Delta R.T. -0.016 min
 Lab File: 0409_29.D
 Acq: 10 Apr 2019 12:06 am

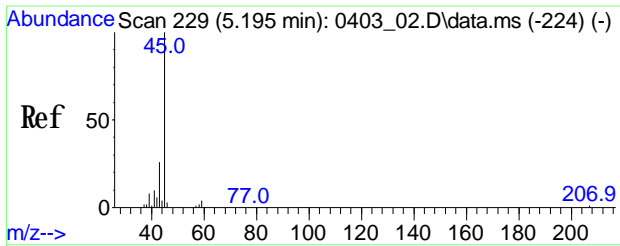
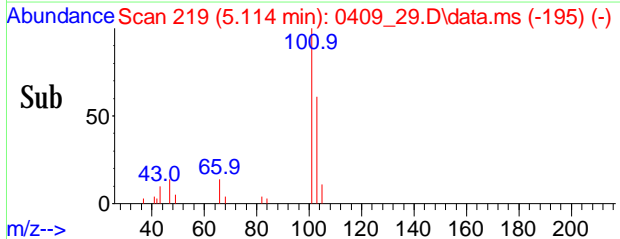
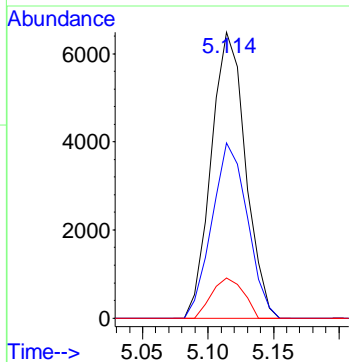
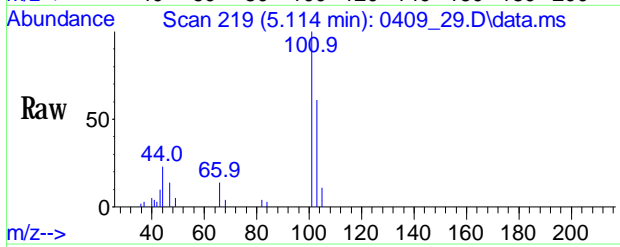
Tgt Ion	Ratio	Resp	Lower	Upper
43	100			
58	13.1	25.9		38.9#





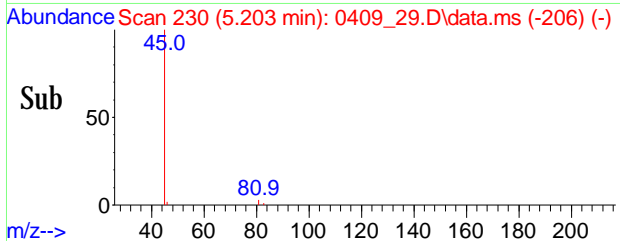
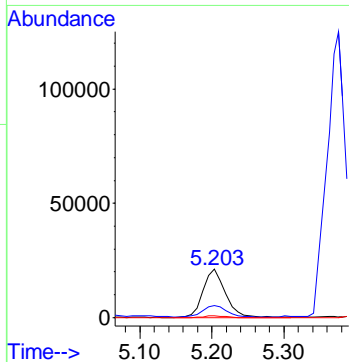
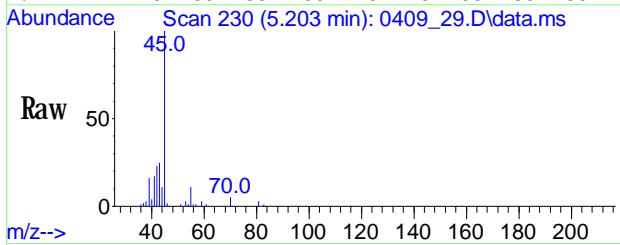
#13
 Trichlorofluoromethane
 Conc: 8S 0.319 ppbv
 RT: 5.114 min Scan# 219
 Delta R.T. -0.008 min
 Lab File: 0409_29.D
 Acq: 10 Apr 2019 12:06 am

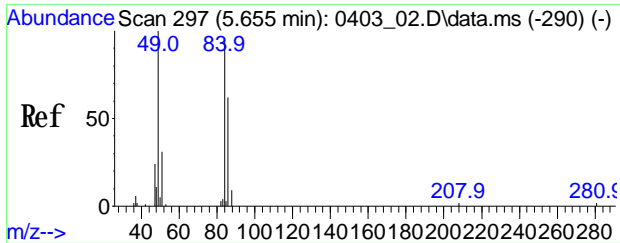
Tgt Ion	Ratio	Resp	Lower	Upper
101	100	11829		
103	63.4	51.6	77.4	
66	13.1	9.4	14.0	



#14
 Isopropylalcohol
 Conc: 8S 1.764 ppbv
 RT: 5.203 min Scan# 230
 Delta R.T. -0.009 min
 Lab File: 0409_29.D
 Acq: 10 Apr 2019 12:06 am

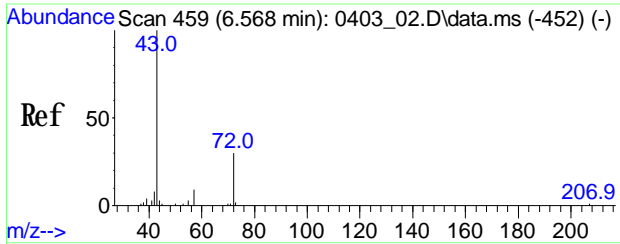
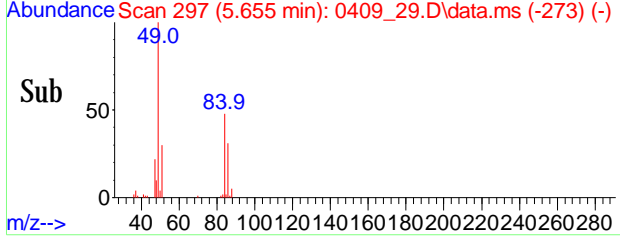
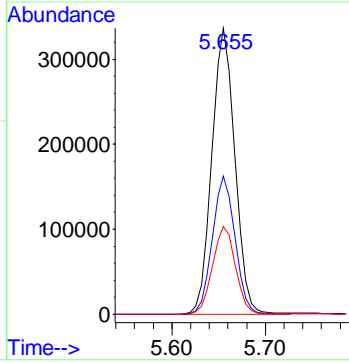
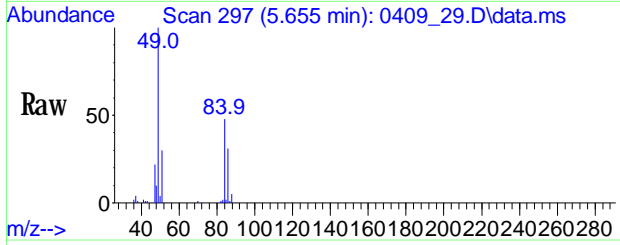
Tgt Ion	Ratio	Resp	Lower	Upper
45	100	45996		
43	25.0	18.6	27.8	
59	3.1	3.7	5.5#	





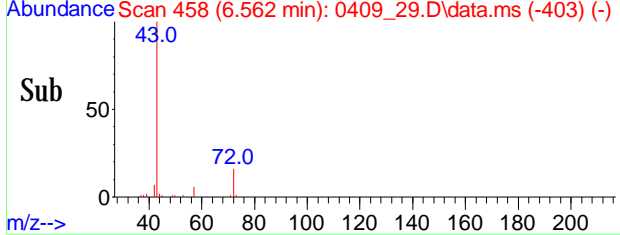
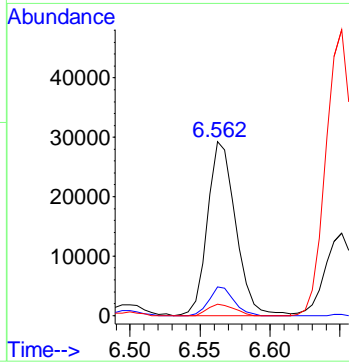
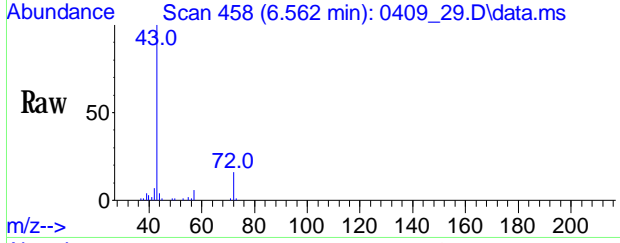
#17
Methylene Chloride
 Conc: 8S 34.622 ppbv
 RT: 5.655 min Scan# 297
 Delta R.T. -0.006 min
 Lab File: 0409_29.D
 Acq: 10 Apr 2019 12:06 am

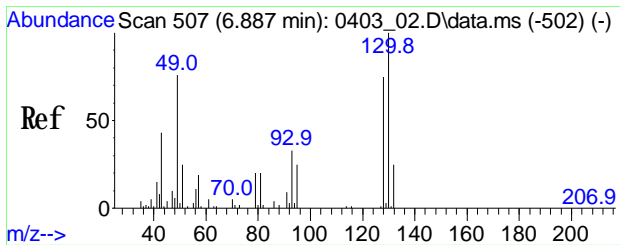
Tgt Ion	Ratio	Resp	Upper
49	100	574383	
84	47.5	75.4	113.0#
86	30.5	48.9	73.3#



#25
Methyl Ethyl Ketone
 Conc: 8S 1.311 ppbv
 RT: 6.562 min Scan# 458
 Delta R.T. -0.011 min
 Lab File: 0409_29.D
 Acq: 10 Apr 2019 12:06 am

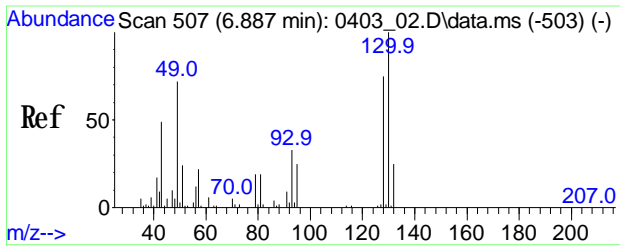
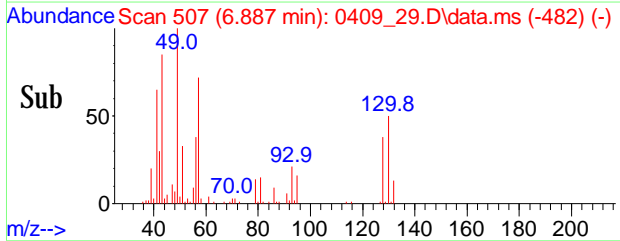
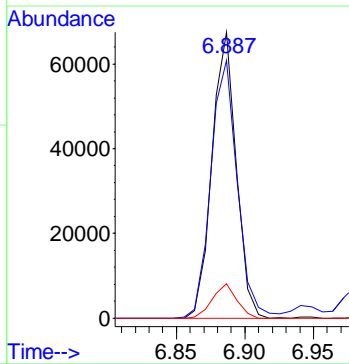
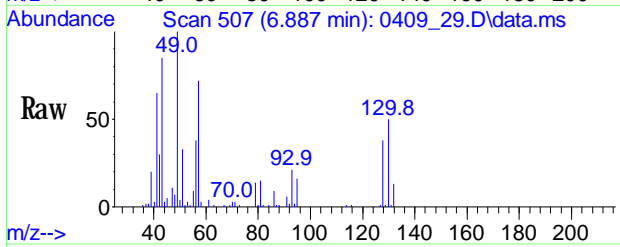
Tgt Ion	Ratio	Resp	Upper
43	100	40822	
72	14.2	24.6	37.0#
57	6.1	7.4	11.2#





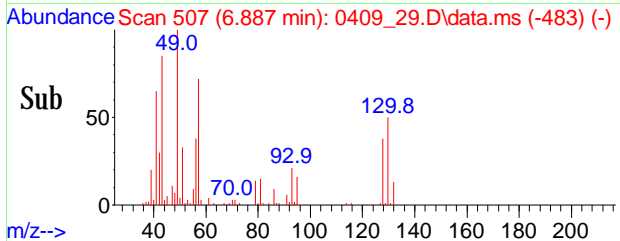
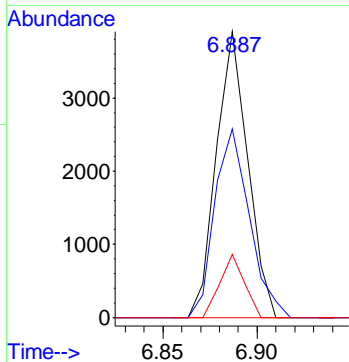
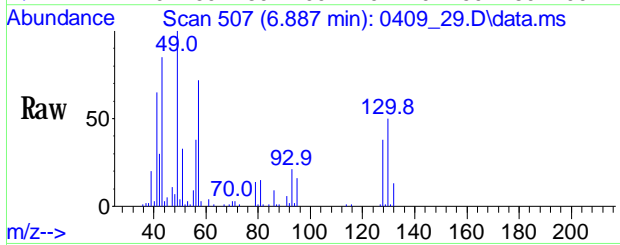
#27
 Hexane
 Conc: 8S 4.638 ppbv
 RT: 6.887 min Scan# 507
 Delta R.T. -0.000 min
 Lab File: 0409_29.D
 Acq: 10 Apr 2019 12:06 am

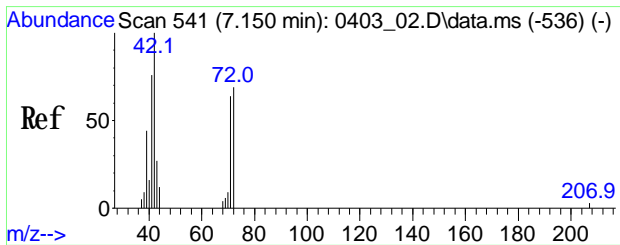
Tgt Ion: 57 Resp: 83029
 Ion Ratio Lower Upper
 57 100
 41 98.8 58.9 88.3#
 86 11.9 16.4 24.6#



#29
 Ethyl acetate
 Conc: 8S 1.316 ppbv
 RT: 6.887 min Scan# 507
 Delta R.T. -0.007 min
 Lab File: 0409_29.D
 Acq: 10 Apr 2019 12:06 am

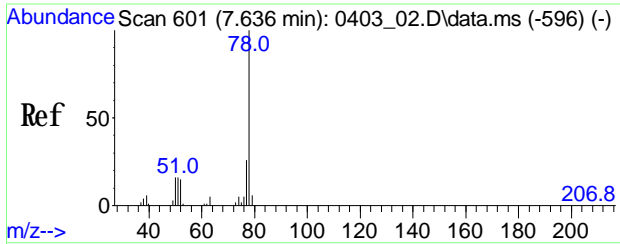
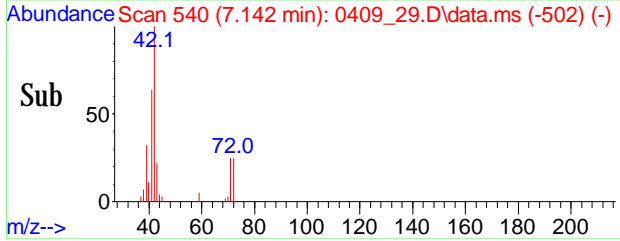
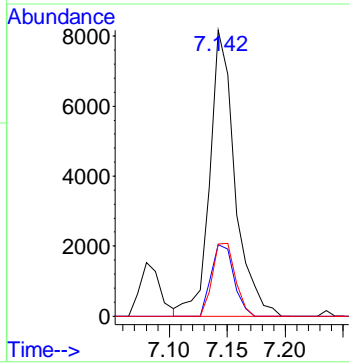
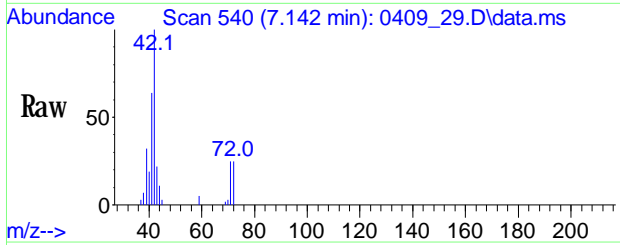
Tgt Ion: 61 Resp: 4577
 Ion Ratio Lower Upper
 61 100
 70 72.6 73.8 110.8#
 88 17.0 28.8 43.2#





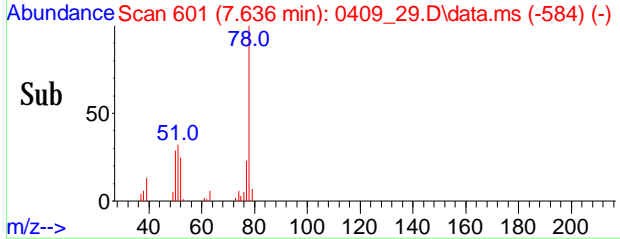
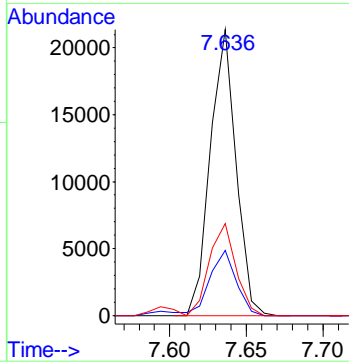
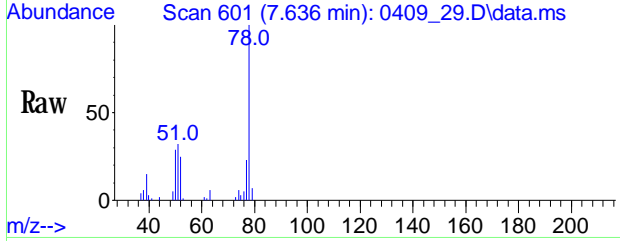
#30
 Tetrahydrofuran
 Conc: 8S 0.926 ppby
 RT: 7.142 min Scan# 540
 Delta R.T. -0.008 min
 Lab File: 0409_29.D
 Acq: 10 Apr 2019 12:06 am

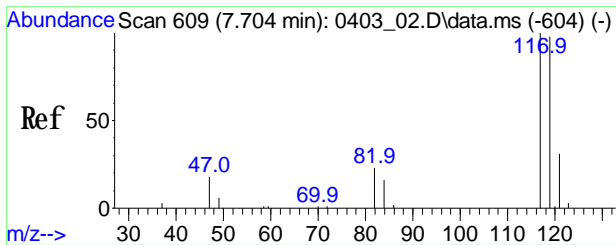
Tgt Ion	Ratio	Resp	Lower	Upper
42	100	12135		
71	22.5	45.8	68.6#	
72	22.9	46.5	69.7#	



#33
 Benzene
 Conc: 8S 1.025 ppby
 RT: 7.636 min Scan# 601
 Delta R.T. 0.000 min
 Lab File: 0409_29.D
 Acq: 10 Apr 2019 12:06 am

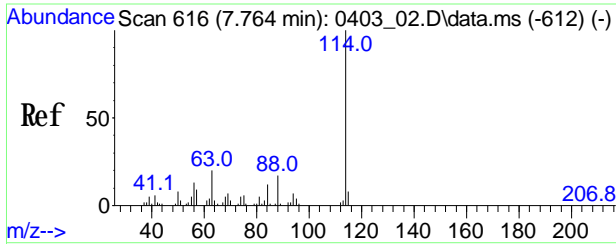
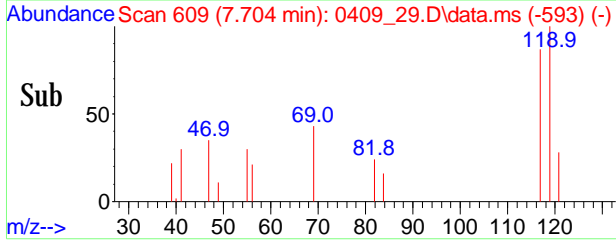
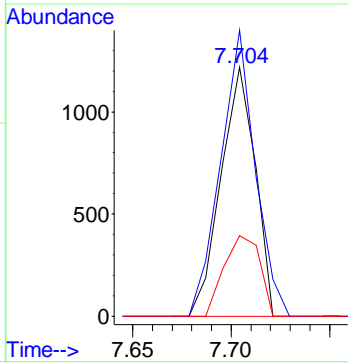
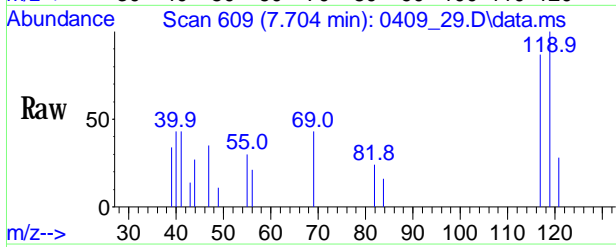
Tgt Ion	Ratio	Resp	Lower	Upper
78	100	24886		
77	28.6	18.6	27.8#	
51	33.5	12.9	19.3#	





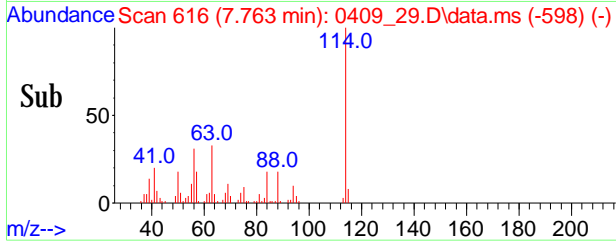
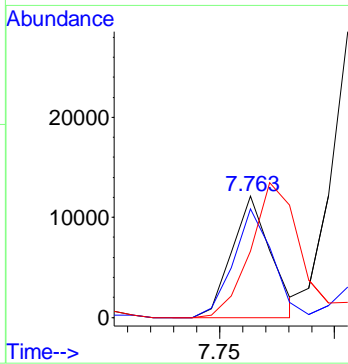
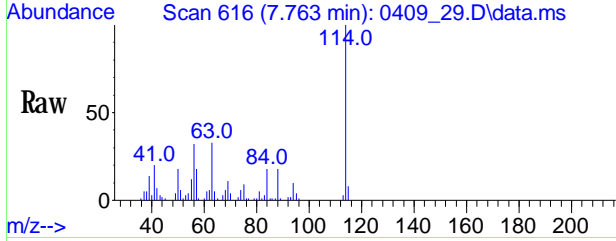
#34
Carbon Tetrachloride
 Conc: 8S Below Cal
 RT: 7.704 min Scan# 609
 Delta R.T. 0.000 min
 Lab File: 0409_29.D
 Acq: 10 Apr 2019 12:06 am

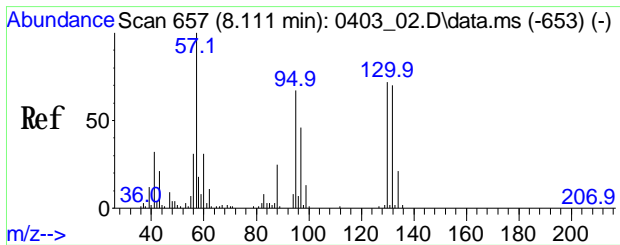
Tgt Ion	Ratio	Resp	Lower	Upper
117	100	1465		
119	116.7	75.8		115.8#
121	33.9	10.7		50.7



#35
Cyclohexane
 Conc: 8S 1.470 ppby
 RT: 7.763 min Scan# 616
 Delta R.T. 0.000 min
 Lab File: 0409_29.D
 Acq: 10 Apr 2019 12:06 am

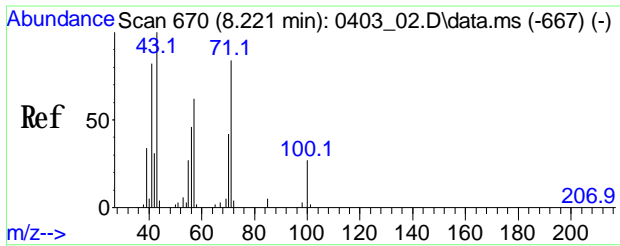
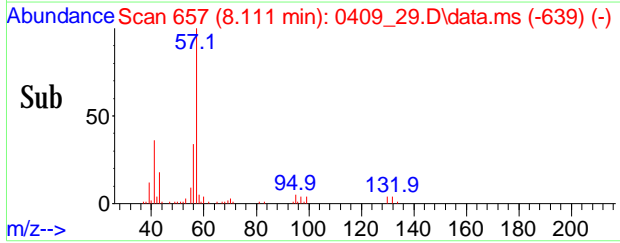
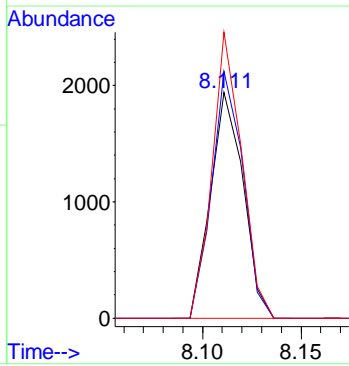
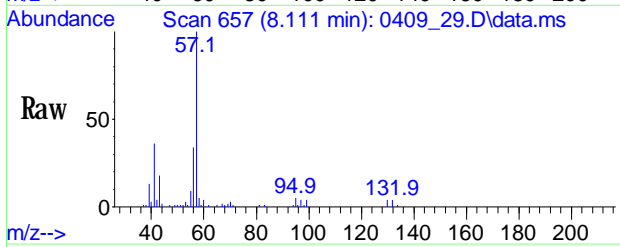
Tgt Ion	Ratio	Resp	Lower	Upper
41	100	14347		
84	90.4	158.4		237.6#
69	146.7	69.1		103.7#





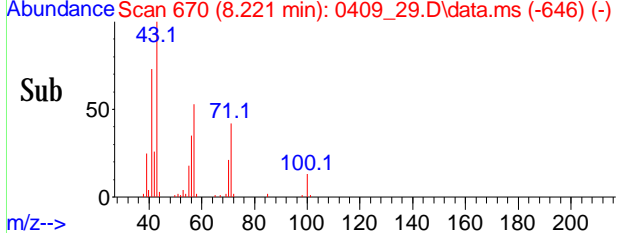
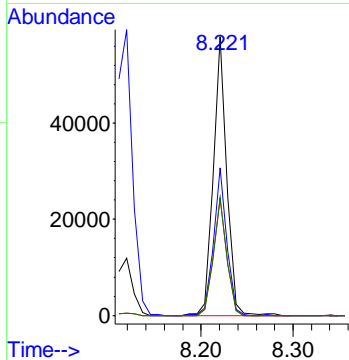
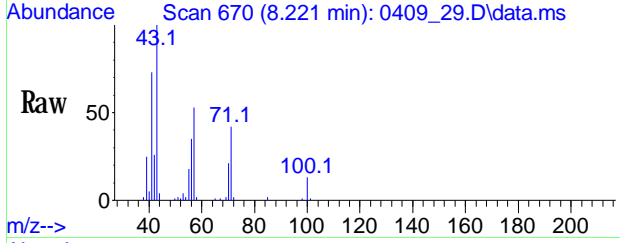
#39
 Trichloroethene
 Conc: 8S 0.162 ppby
 RT: 8.111 min Scan# 657
 Delta R.T. -0.000 min
 Lab File: 0409_29.D
 Acq: 10 Apr 2019 12:06 am

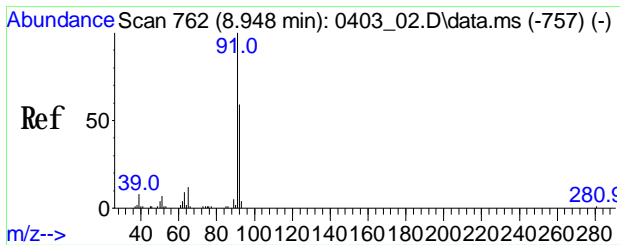
Tgt Ion	Ratio	Resp	Lower	Upper
130	100	2214		
132	104.4	78.0		117.0
95	114.8	73.0		109.4#



#43
 Heptane
 Conc: 8S 3.203 ppby
 RT: 8.221 min Scan# 670
 Delta R.T. -0.000 min
 Lab File: 0409_29.D
 Acq: 10 Apr 2019 12:06 am

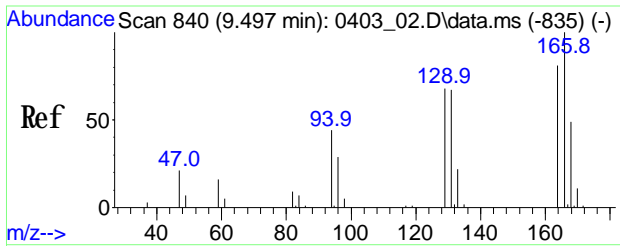
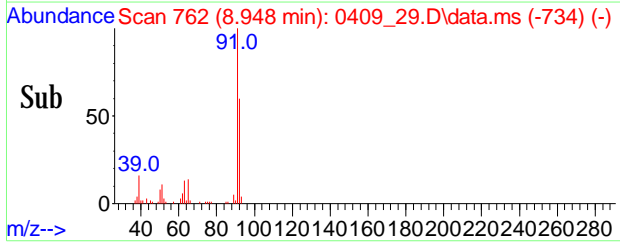
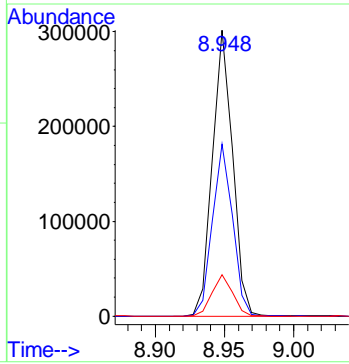
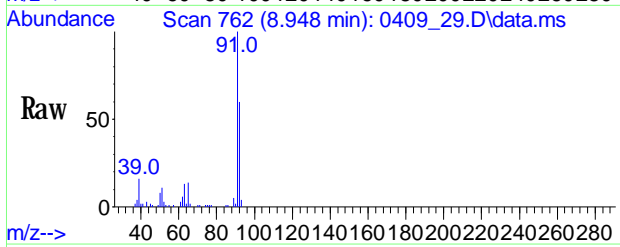
Tgt Ion	Ratio	Resp	Lower	Upper
43	100	58928		
57	52.0	49.7		74.5
71	41.8	62.2		93.2#
71	41.8	62.2		93.2#





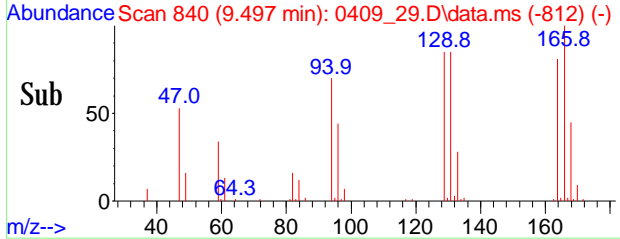
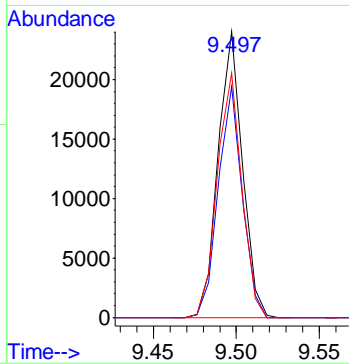
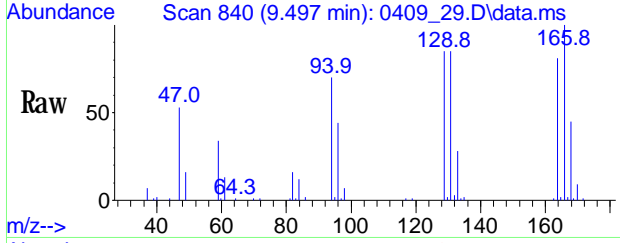
#48
 Toluene
 Conc: 8S 10.180 ppbv
 RT: 8.948 min Scan# 762
 Delta R.T. -0.000 min
 Lab File: 0409_29.D
 Acq: 10 Apr 2019 12:06 am

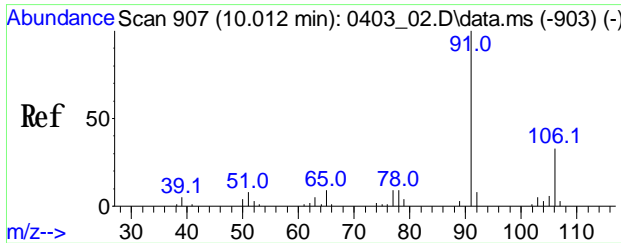
Tgt Ion: 91 Resp: 304484
 Ion Ratio Lower Upper
 91 100
 92 60.1 47.7 71.5
 65 14.7 9.3 13.9#



#52
 Tetrachloroethene
 Conc: 8S 1.693 ppbv
 RT: 9.497 min Scan# 840
 Delta R.T. -0.000 min
 Lab File: 0409_29.D
 Acq: 10 Apr 2019 12:06 am

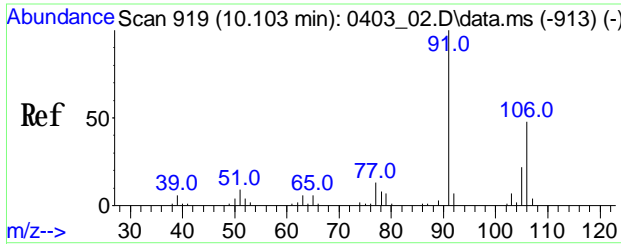
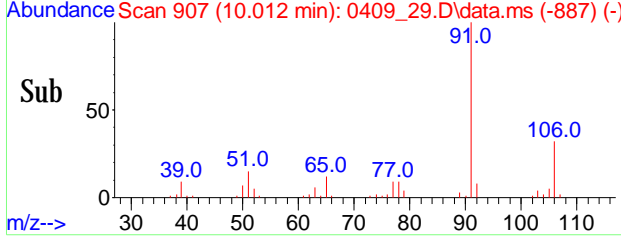
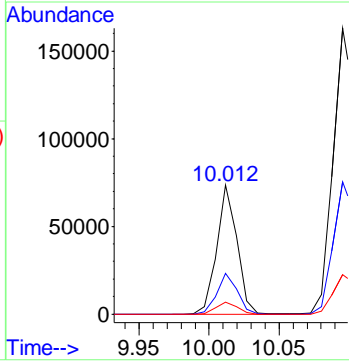
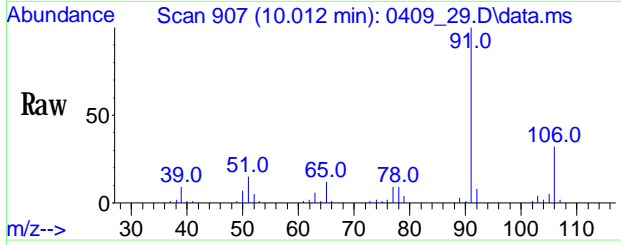
Tgt Ion: 166 Resp: 24525
 Ion Ratio Lower Upper
 166 100
 164 79.2 62.2 93.2
 129 86.0 54.9 82.3#





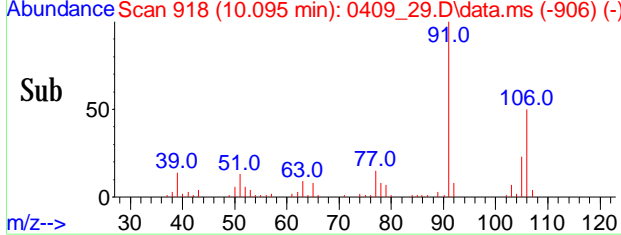
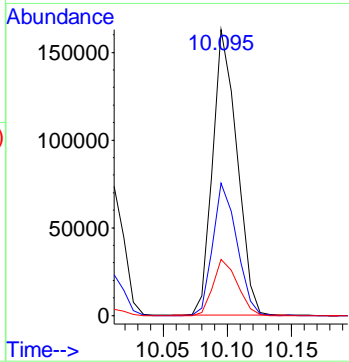
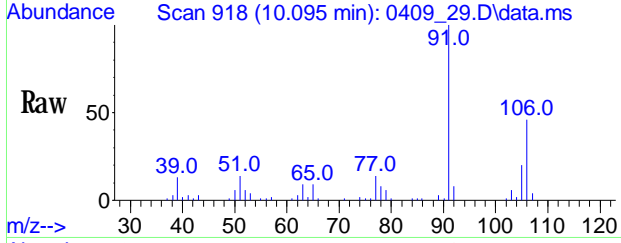
#56
 Ethylbenzene
 Conc: 8S 1.670 ppbv
 RT: 10.012 min Scan# 907
 Delta R.T. -0.000 min
 Lab File: 0409_29.D
 Acq: 10 Apr 2019 12:06 am

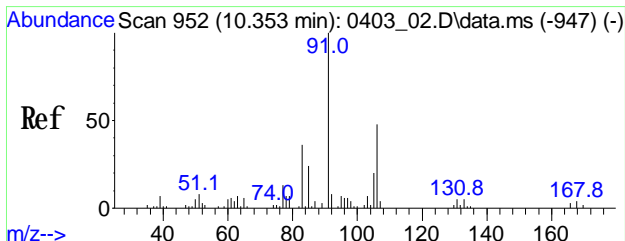
Tgt Ion	Ratio	Resp	Lower	Upper
91	100	73791		
106	31.9	12.6		52.6
77	9.6	0.0		29.1



#57
 m p-Xylene
 Conc: 8S 6.327 ppbv
 RT: 10.095 min Scan# 918
 Delta R.T. -0.008 min
 Lab File: 0409_29.D
 Acq: 10 Apr 2019 12:06 am

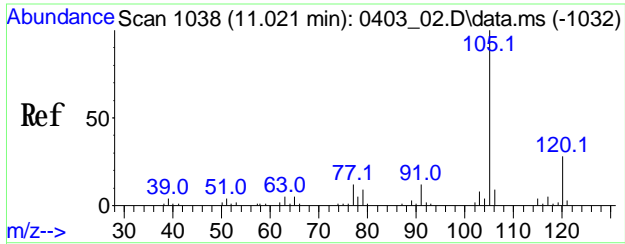
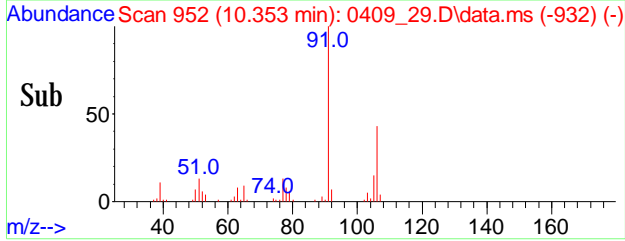
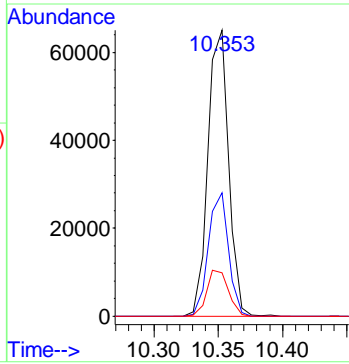
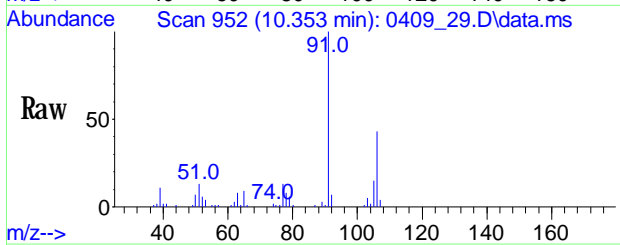
Tgt Ion	Ratio	Resp	Lower	Upper
91	100	213362		
106	45.9	40.9		61.3
105	19.6	17.8		26.8





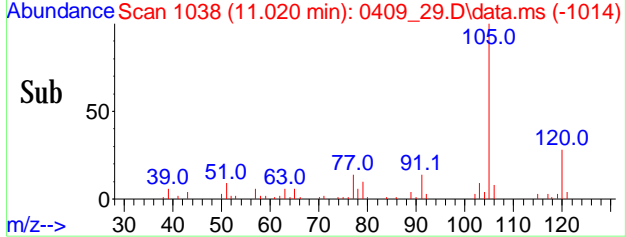
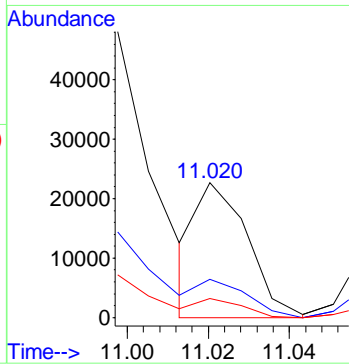
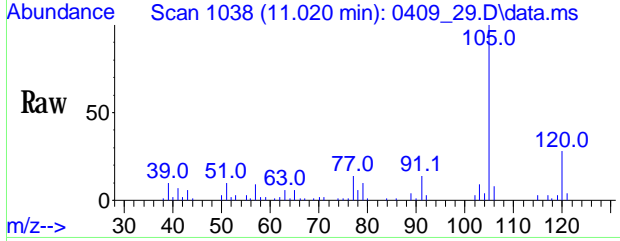
#61
 o-Xylene
 Conc: 8S 2.061 ppbv
 RT: 10.353 min Scan# 952
 Delta R.T. -0.000 min
 Lab File: 0409_29.D
 Acq: 10 Apr 2019 12:06 am

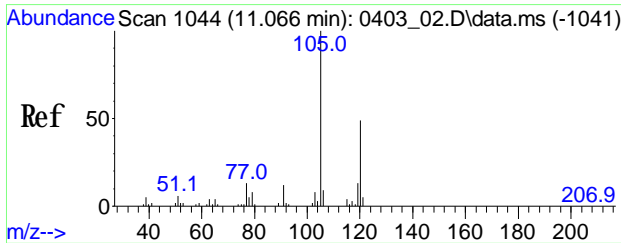
Tgt Ion	Ratio	Resp	Lower	Upper
91	100	72710		
106	41.9	38.3		57.5
105	16.8	15.2		22.8



#66
 4-Ethyltoluene
 Conc: 8S 0.419 ppbv
 RT: 11.020 min Scan# 1038
 Delta R.T. -0.000 min
 Lab File: 0409_29.D
 Acq: 10 Apr 2019 12:06 am

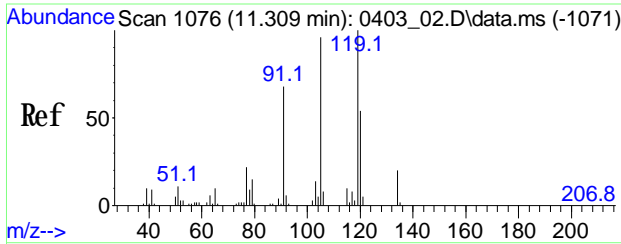
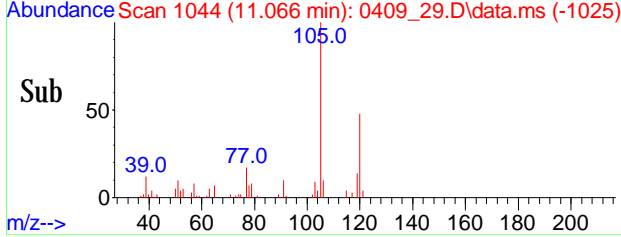
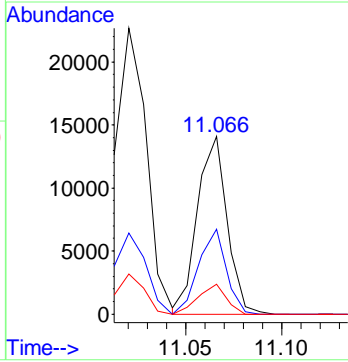
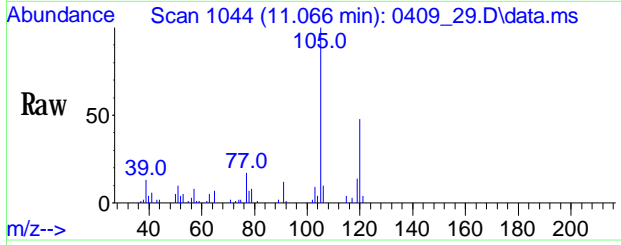
Tgt Ion	Ratio	Resp	Lower	Upper
105	100	19580		
120	107.4	25.0		37.4#
77	52.0	9.4		14.0#





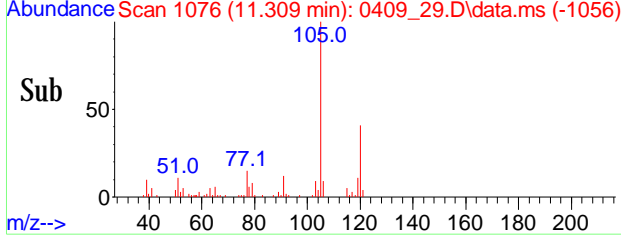
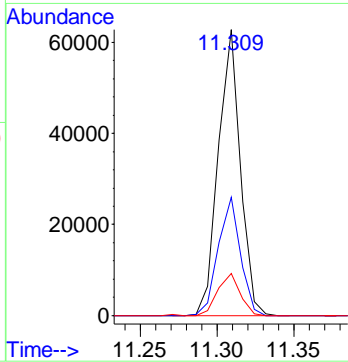
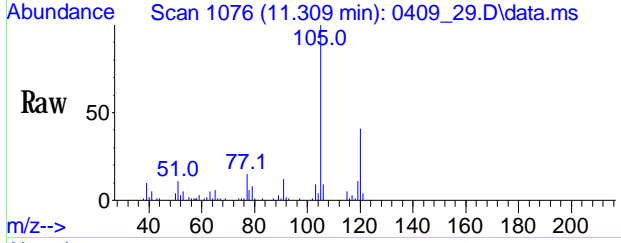
#67
 1,3,5-Trimethylbenzene
 Conc: 8S 0.375 ppby
 RT: 11.066 min Scan# 1044
 Delta R.T. -0.000 min
 Lab File: 0409_29.D
 Acq: 10 Apr 2019 12:06 am

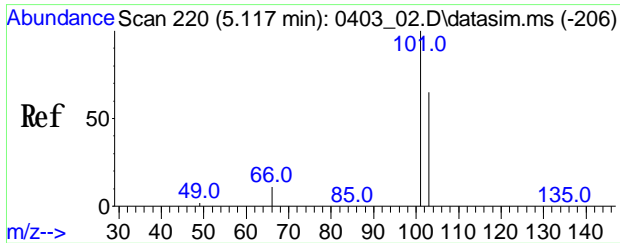
Tgt Ion	Ratio	Resp	Lower	Upper
105	100	15068		
120	44.6	39.7	59.5	
77	16.0	10.2	15.4#	



#68
 1,2,4-Trimethylbenzene
 Conc: 8S 1.581 ppby
 RT: 11.309 min Scan# 1076
 Delta R.T. -0.000 min
 Lab File: 0409_29.D
 Acq: 10 Apr 2019 12:06 am

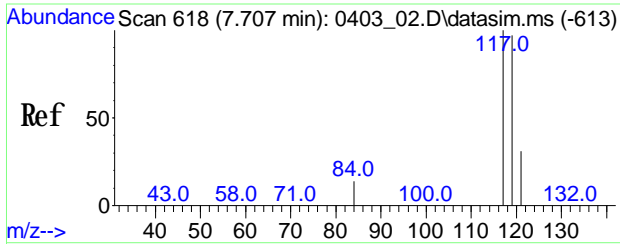
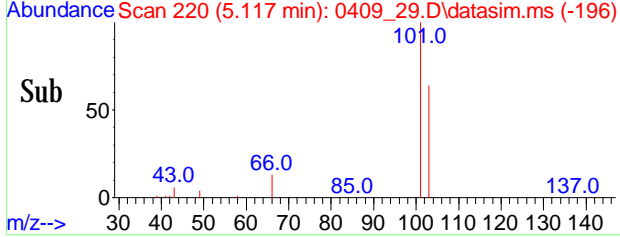
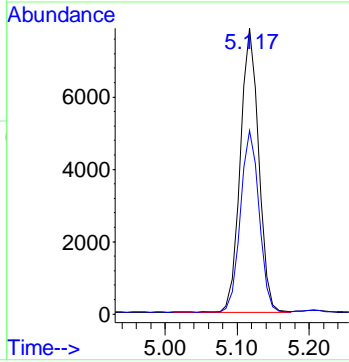
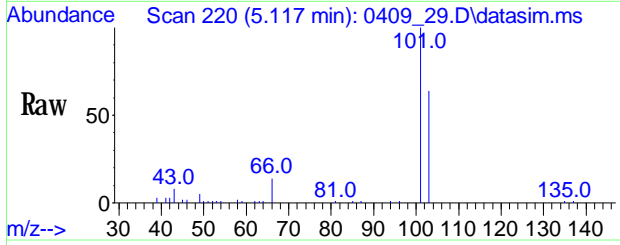
Tgt Ion	Ratio	Resp	Lower	Upper
105	100	62241		
120	41.6	44.5	66.7#	
77	15.1	19.7	29.5#	





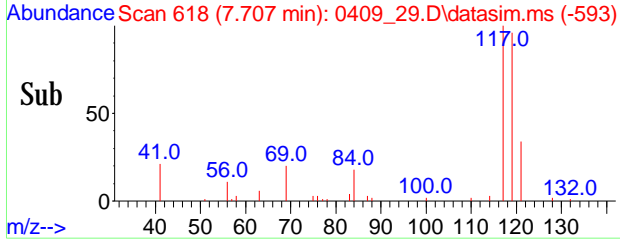
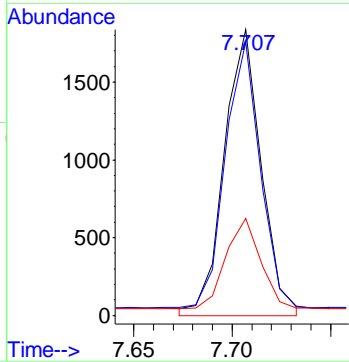
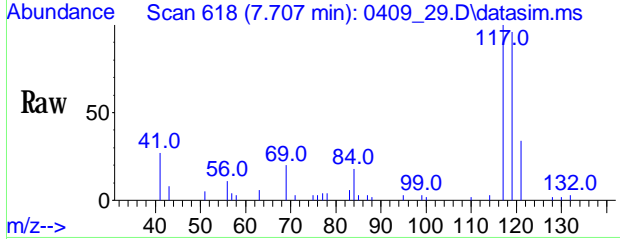
#84
 Trichlorofluoromethane(sim)
 Conc: 8S 0.274 ppbv
 RT: 5.117 min Scan# 220
 Delta R.T. -0.008 min
 Lab File: 0409_29.D
 Acq: 10 Apr 2019 12:06 am

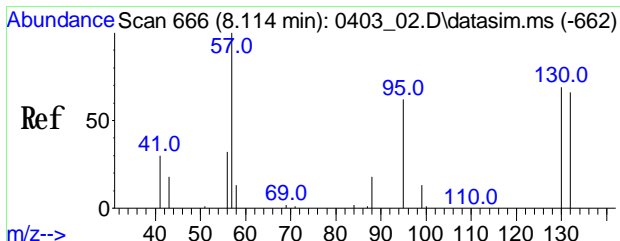
Tgt Ion	Ratio	Resp	Lower	Upper
101	100	14080		
103	64.7	51.9		77.9



#87
 Carbon Tetrachloride(sim)
 Conc: 8S 0.073 ppbv
 RT: 7.704 min Scan# 618
 Delta R.T. -0.000 min
 Lab File: 0409_29.D
 Acq: 10 Apr 2019 12:06 am

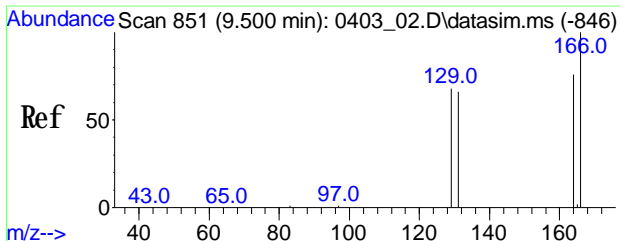
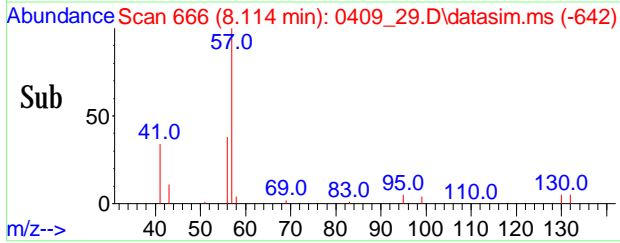
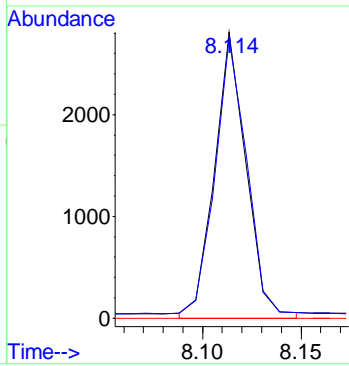
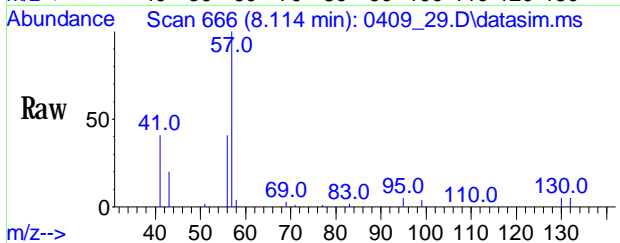
Tgt Ion	Ratio	Resp	Lower	Upper
117	100	1465		
119	116.7	76.6		115.0#
121	33.9	24.6		36.8





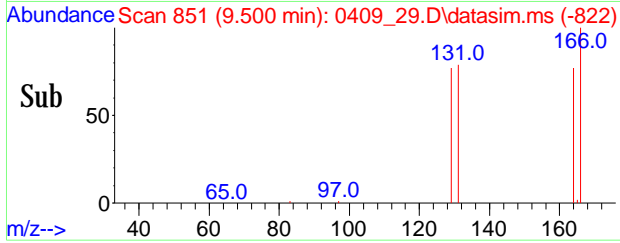
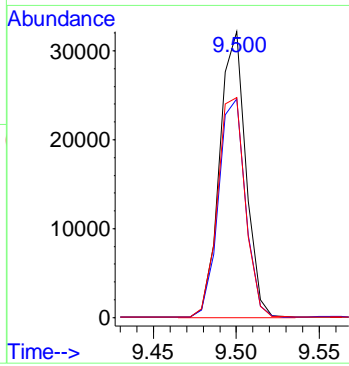
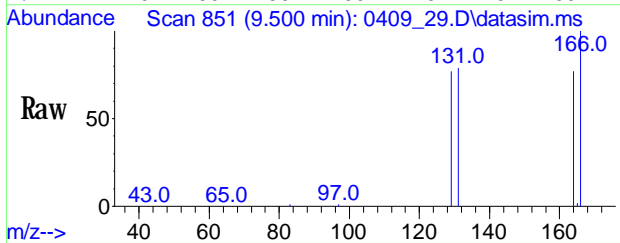
#97
 Trichloroethene(sim)
 Conc: 8S 0.145 ppbv
 RT: 8.111 min Scan# 666
 Delta R.T. -0.000 min
 Lab File: 0409_29.D
 Acq: 10 Apr 2019 12:06 am

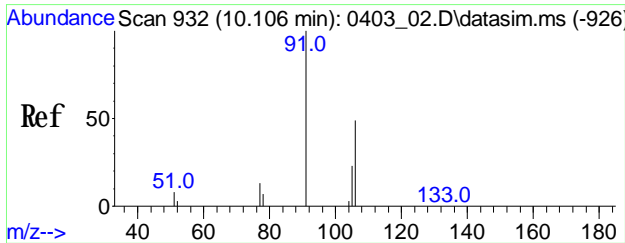
Tgt Ion	Ratio	Resp	Lower	Upper
130	100	2214		
132	104.4	78.0	117.0	
97	91.1	47.2	70.8#	



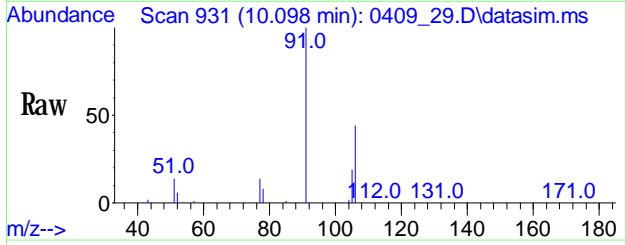
#103
 Tetrachloroethene(sim)
 Conc: 8S 1.475 ppbv
 RT: 9.497 min Scan# 851
 Delta R.T. -0.000 min
 Lab File: 0409_29.D
 Acq: 10 Apr 2019 12:06 am

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	24525		
164	79.2	57.7	97.7	
129	86.0	48.6	88.6	



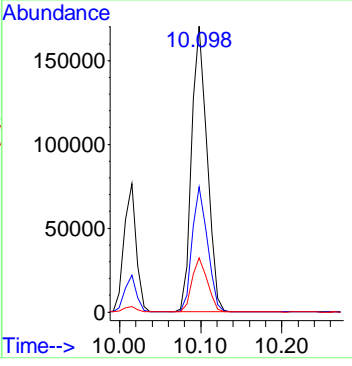
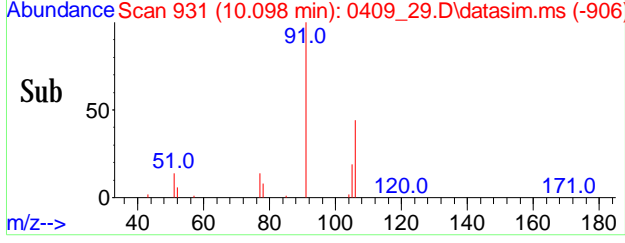


#106
 m p-Xylene (sim)
 Conc: 85 5.833 ppbv
 RT: 10.098 min Scan# 931
 Delta R.T. -0.008 min
 Lab File: 0409_29.D
 Acq: 10 Apr 2019 12:06 am



Tgt Ion: 91 Resp: 225848

Ion	Ratio	Lower	Upper
91	100		
106	43.4	44.3	54.1#
105	18.9	17.7	26.5



1
AIR ANALYSIS DATA SHEET

CLIENT ID

IA-DUP

Client:	<u>WALDENE</u>	Lab:	<u>Phoenix Env. Labs</u>
SDG No.:	<u>GCC90508</u>	Lab Sample ID:	<u>CC90522</u>
Canister:	<u>156</u>	Lab File ID:	<u>0409_30.D</u>
Instrument:	<u>CHEM20</u>	Column:	<u>RTX-1 60M</u>
		Date Received:	<u>04/08/19</u>
Purge Volume	<u>200</u> (cc)	Date Analyzed:	<u>04/10/19</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	0.475		0.202	0.202	r
74-87-3	Chloromethane	0.580		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	17.9	S	0.531	0.531	r
67-64-1	Acetone	8.49	S	0.421	0.421	r
75-69-4	Trichlorofluoromethane	0.264		0.178	0.178	r
67-63-0	Isopropylalcohol	0.750	S	0.407	0.407	r
107-13-1	Acrylonitrile	0.461	U	0.461	0.461	r
75-09-2	Methylene Chloride	0.864	U	0.864	0.864	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	0.861		0.339	0.339	r
110-54-3	Hexane	2.35	S	0.284	0.284	r
141-78-6	Ethyl acetate	0.278	U	0.278	0.278	r
109-99-9	Tetrahydrofuran	1.95		0.339	0.339	r
71-43-2	Benzene	0.516		0.313	0.313	r
110-82-7	Cyclohexane	0.902		0.291	0.291	r
142-82-5	Heptane	1.05		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	2.89		0.266	0.266	r
591-78-6	2-Hexanone(MBK)	0.244	U	0.244	0.244	r
127-18-4	Tetrachloroethene	1.34		0.037	0.037	r
630-20-6	1,1,1,2-Tetrachloroethane	0.146	U	0.146	0.146	r
108-90-7	Chlorobenzene	0.217	U	0.217	0.217	r
100-41-4	Ethylbenzene	0.581		0.230	0.230	r
179601-23-1	m,p-Xylene	2.35		0.230	0.230	r
100-42-5	Styrene	0.235	U	0.235	0.235	r
95-47-6	o-Xylene	0.977		0.230	0.230	r
98-82-8	Isopropylbenzene	0.238		0.204	0.204	r
622-96-8	4-Ethyltoluene	1.29		0.204	0.204	r
108-67-8	1,3,5-Trimethylbenzene	1.01		0.204	0.204	r
95-63-6	1,2,4-Trimethylbenzene	3.44		0.204	0.204	r
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.143	U	0.143	0.143	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

IA-DUP

Client: WALDENE Lab: Phoenix Env. Labs

SDG No.: GCC90508 Lab Sample ID: CC90522

Canister: 156 Lab File ID: 0409_30.D

Instrument: CHEM20 Column: RTX-1 60M Date Received: 04/08/19

Purge Volume 200 (cc) Date Analyzed: 04/10/19

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
75-01-4	Vinyl Chloride(sim)	0.078	U	0.078	0.078	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)	0.074		0.032	0.032	r
75-35-4	1,1-Dichloroethene(sim)	0.051	U	0.051	0.051	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)	0.058		0.051	0.051	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		0.037	0.037	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
79-34-5	1,1,1,2-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

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2019\CHEM20\04APR\09\
 Data File : 0409_30.D
 Acq On : 10 Apr 2019 12:47 am
 Operator : CORTEX\ms
 Client ID : IA-DUP
 Lab ID : CC90522
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 10 10:28:03 2019
 Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_0409.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Wed Apr 10 09:07:16 2019
 Response via : Initial Calibration

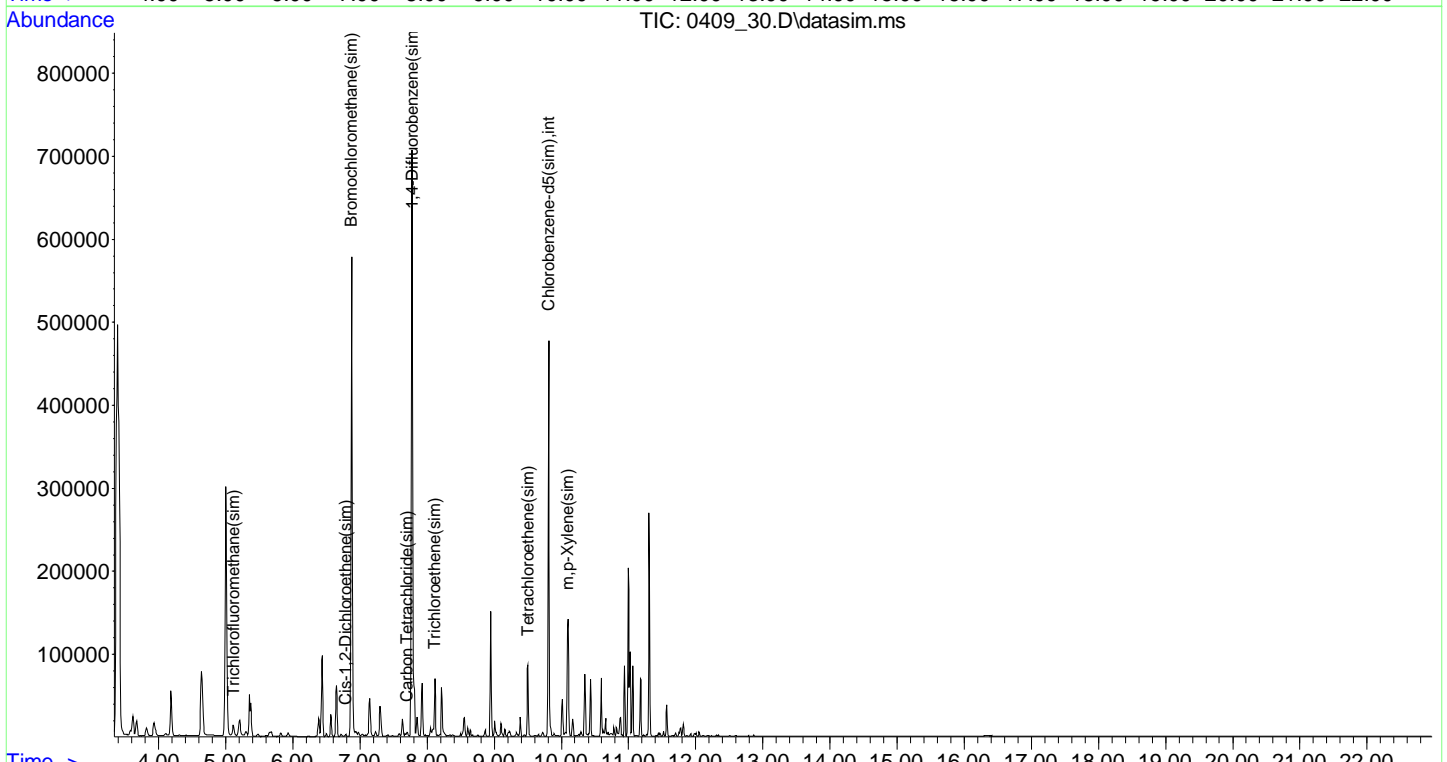
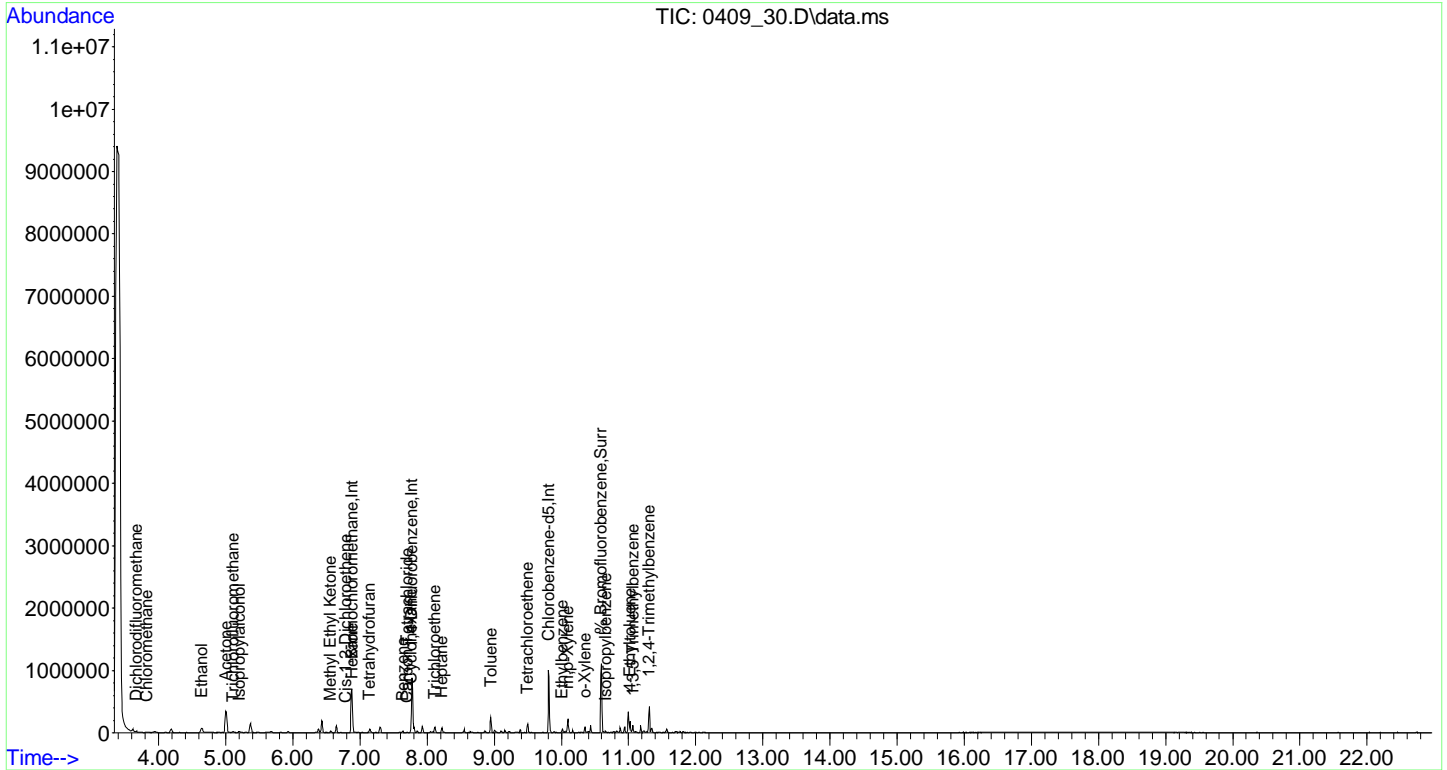
Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
Internal Standards						
1) Bromchloromethane	6.879	130	115319	10.000	ng	0.00
36) 1,4-Difluorobenzene	7.772	114	377508	10.000	ng	0.00
53) Chlorobenzene-d5	9.807	82	189140	10.000	ng	# 0.00
80) Bromchloromethane(sim)	6.874	130	160015	10.000	ng	# 0.00
94) 1,4-Difluorobenzene(sim)	7.775	114	436620	10.000	ng	0.00
104) Chlorobenzene-d5(sim)	9.810	82	190281	10.000	ng	# 0.00
System Monitoring Compounds						
62) % Bromfluorobenzene	10.596	95	247197	9.969	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	99.70%
Target Compounds						
						Qvalue
3) Dichlorodifluoromethane	3.670	85	14037	0.475	ppbv#	94
4) Chloromethane	3.825	50	7161	0.580	ppbv	100
11) Ethanol	4.644	45	88638	17.863	ppbv	96
12) Acetone	5.001	43	218863	8.489	ppbv#	70
13) Trichlorofluoromethane	5.114	101	10212	0.264	ppbv	99
14) Isopropylalcohol	5.204	45	20384	0.750	ppbv#	89
25) Methyl Ethyl Ketone	6.562	43	27923	0.861	ppbv#	75
26) Cis-1,2-Dichloroethene	6.786	61	996	0.053	ppbv#	78
27) Hexane	6.887	57	43726	2.345	ppbv#	74
30) Tetrahydrofuran	7.142	42	26617	1.950	ppbv#	57
33) Benzene	7.636	78	13057	0.516	ppbv#	85
34) Carbon Tetrachloride	7.704	117	1552	0.071	ppbv	94
35) Cyclohexane	7.763	41	9171	0.902	ppbv#	9
39) Trichloroethene	8.111	130	740	0.052	ppbv	83
43) Heptane	8.221	43	19920	1.046	ppbv#	69
48) Toluene	8.948	91	89494	2.891	ppbv#	98
52) Tetrachloroethene	9.497	166	20124	1.342	ppbv#	89
56) Ethylbenzene	10.012	91	26020	0.581	ppbv	94
57) m p-Xylene	10.095	91	80427	2.352	ppbv	92
61) o-Xylene	10.353	91	34963	0.977	ppbv	92
64) Isopropylbenzene	10.656	105	11195	0.238	ppbv	96
66) 4-Ethyltoluene	11.021	105	61216m	1.292	ppbv	96
67) 1,3,5-Trimethylbenzene	11.066	105	41350	1.014	ppbv#	93
68) 1,2,4-Trimethylbenzene	11.309	105	137276	3.438	ppbv#	80
84) Trichlorofluoromethane...	5.117	101	12202	0.228	ppbv	99
87) Carbon Tetrachloride(sim)	7.704	117	1552	0.074	ppbv	94
92) Cis-1,2-Dichloroethene...	6.789	61	1392	0.058	ppbv#	74
97) Trichloroethene(sim)	8.111	130	740	0.047	ppbv#	72
103) Tetrachloroethene(sim)	9.497	166	20124	1.173	ppbv	89
106) m p-Xylene(sim)	10.098	91	85707	2.331	ppbv#	92

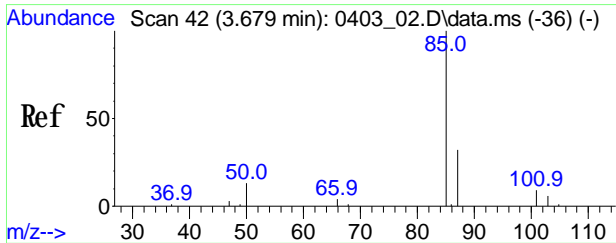
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2019\CHEM20\04APR\09\
 Data File : 0409_30.D
 Acq On : 10 Apr 2019 12:47 am
 Operator : CORTEX\nms
 Client ID : IA-DUP
 Lab ID : CC90522
 ALS Vial : 1 Sample Multiplier: 1

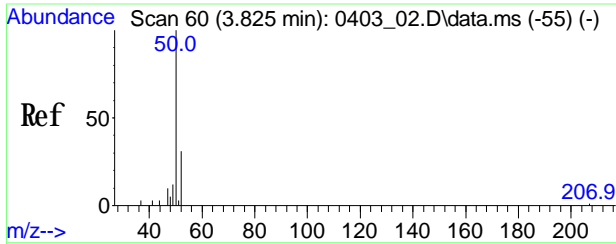
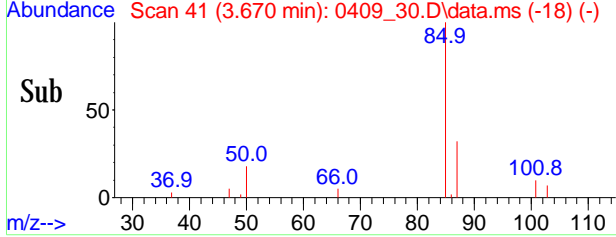
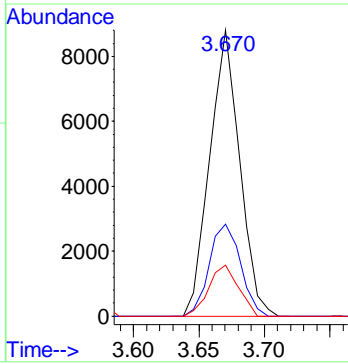
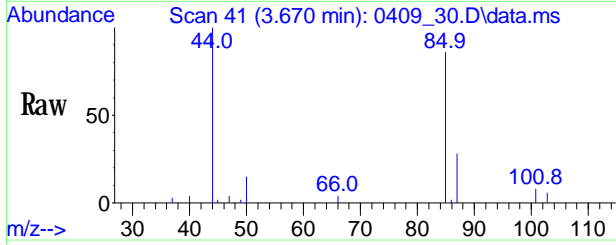
Quant Time: Apr 10 10:28:03 2019
 Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_0409.M
 Quant Title : VOA Standards for 5 point calibration
 Last Update : Wed Apr 10 09:07:16 2019
 Response via : Initial Calibration





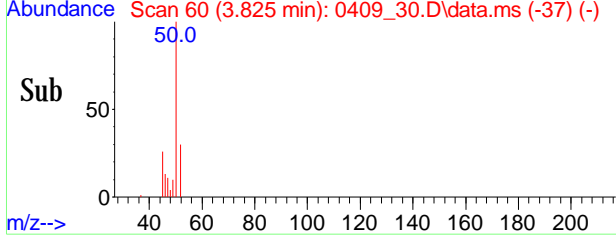
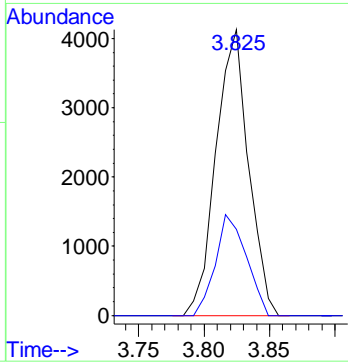
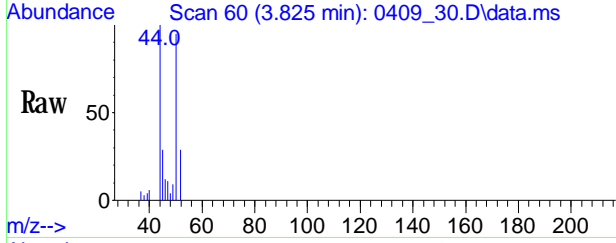
#3
Dichlorodifluoromethane
 Conc: 8S 0.475 ppby
 RT: 3.670 min Scan# 41
 Delta R.T. -0.016 min
 Lab File: 0409_30.D
 Acq: 10 Apr 2019 12:47 am

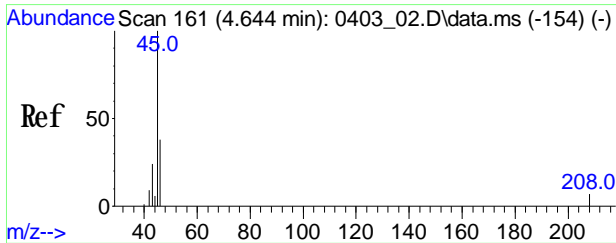
Tgt Ion	Ratio	Resp	Upper
85	100	14037	
87	33.6	25.6	38.4
50	17.7	9.4	14.2#



#4
Chloromethane
 Conc: 8S 0.580 ppby
 RT: 3.825 min Scan# 60
 Delta R.T. -0.016 min
 Lab File: 0409_30.D
 Acq: 10 Apr 2019 12:47 am

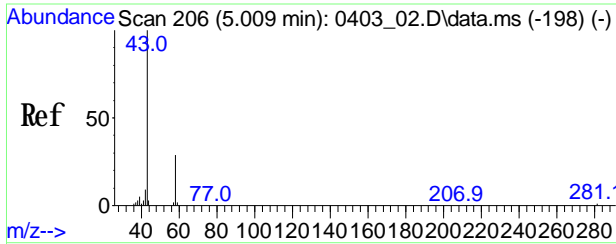
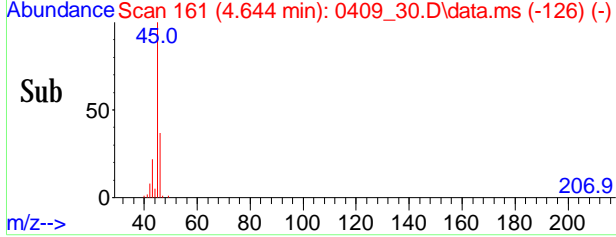
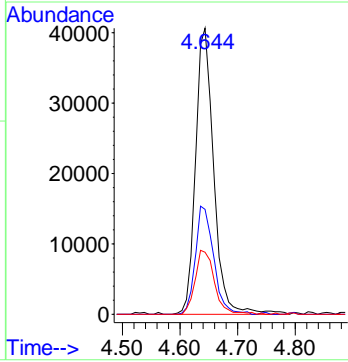
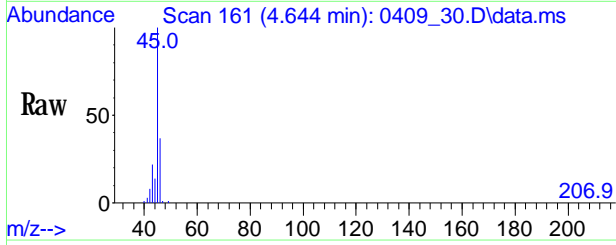
Tgt Ion	Ratio	Resp	Upper
50	100	7161	
52	33.4	13.6	53.6





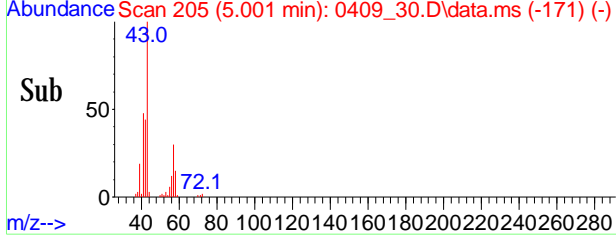
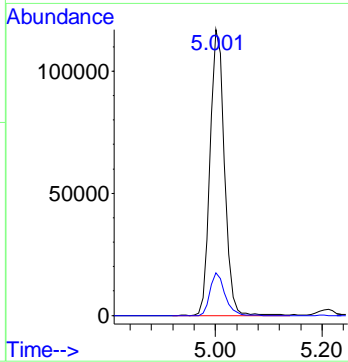
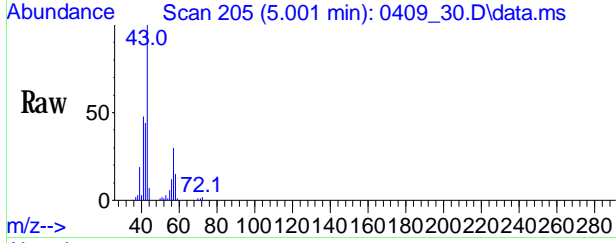
#11
 Ethanol
 Conc: 8S 17.863 ppbv
 RT: 4.644 min Scan# 161
 Delta R.T. -0.016 min
 Lab File: 0409_30.D
 Acq: 10 Apr 2019 12:47 am

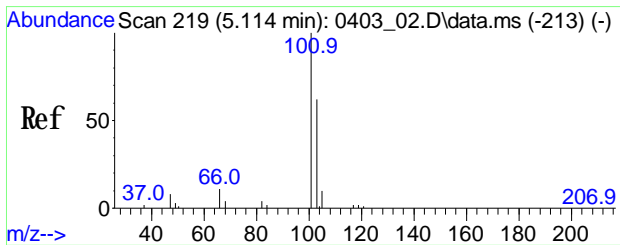
Tgt Ion	Ratio	Resp	Upper
45	100	88638	
46	37.9	29.9	44.9
43	23.7	22.7	34.1



#12
 Acetone
 Conc: 8S 8.489 ppbv
 RT: 5.001 min Scan# 205
 Delta R.T. -0.024 min
 Lab File: 0409_30.D
 Acq: 10 Apr 2019 12:47 am

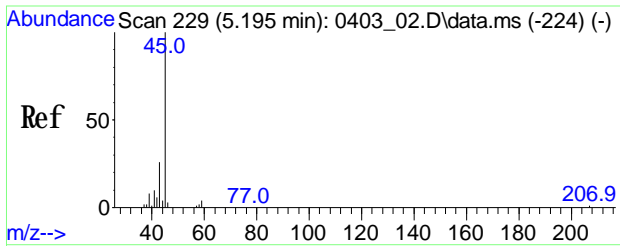
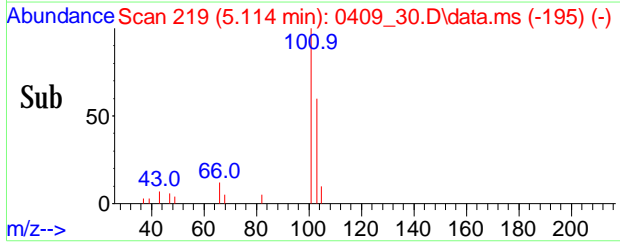
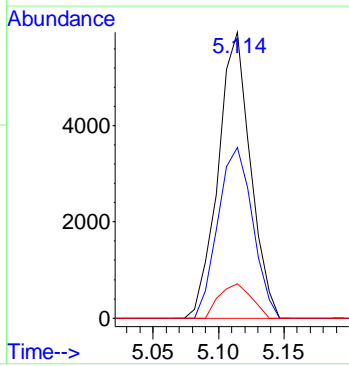
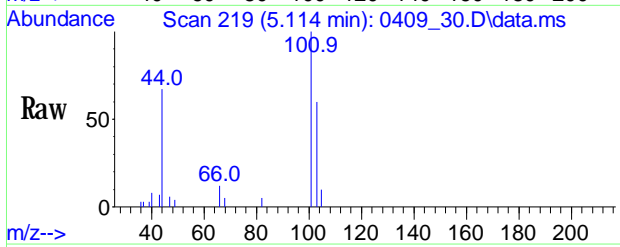
Tgt Ion	Ratio	Resp	Upper
43	100	218863	
58	15.5	25.9	38.9#





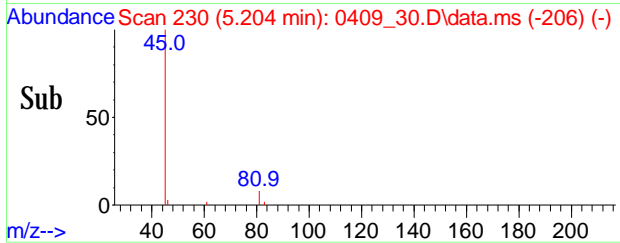
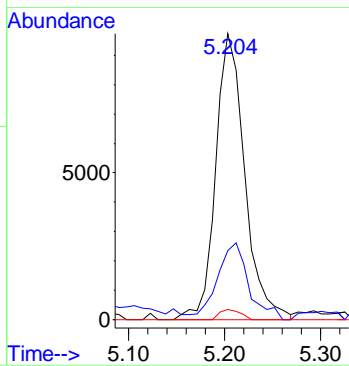
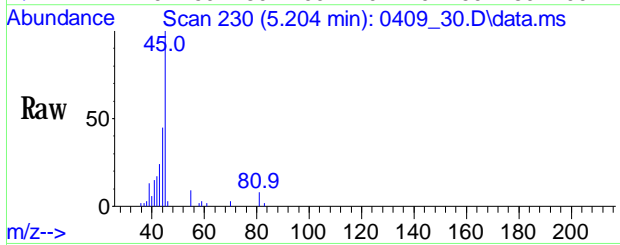
#13
 Trichlorofluoromethane
 Conc: 8S 0.264 ppbv
 RT: 5.114 min Scan# 219
 Delta R.T. -0.008 min
 Lab File: 0409_30.D
 Acq: 10 Apr 2019 12:47 am

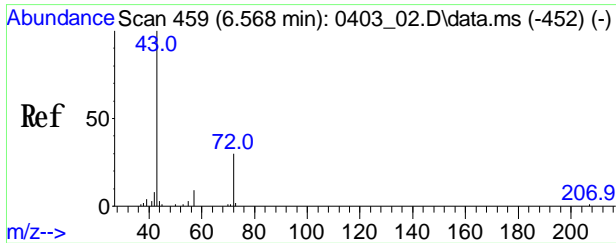
Tgt Ion	Ratio	Resp	Lower	Upper
101	100	10212		
103	64.0	51.6	77.4	
66	11.9	9.4	14.0	



#14
 Isopropylalcohol
 Conc: 8S 0.750 ppbv
 RT: 5.204 min Scan# 230
 Delta R.T. -0.008 min
 Lab File: 0409_30.D
 Acq: 10 Apr 2019 12:47 am

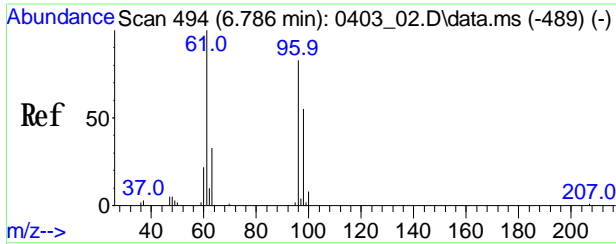
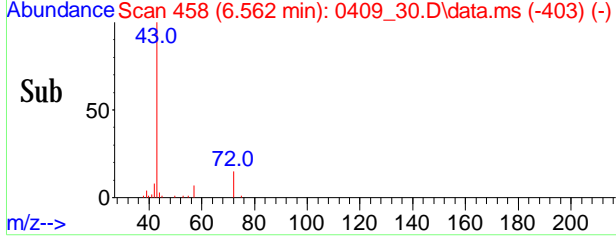
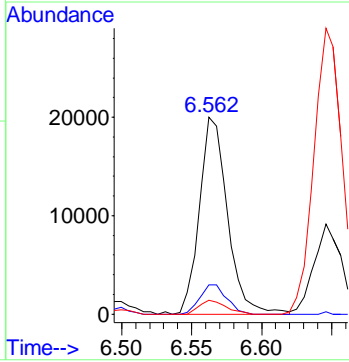
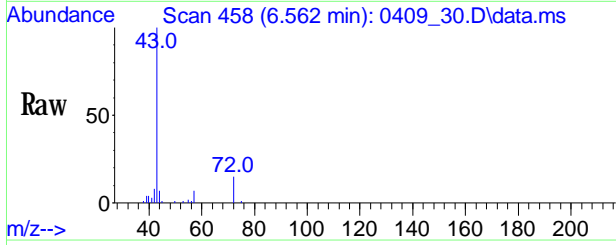
Tgt Ion	Ratio	Resp	Lower	Upper
45	100	20384		
43	28.8	18.6	27.8#	
59	2.5	3.7	5.5#	





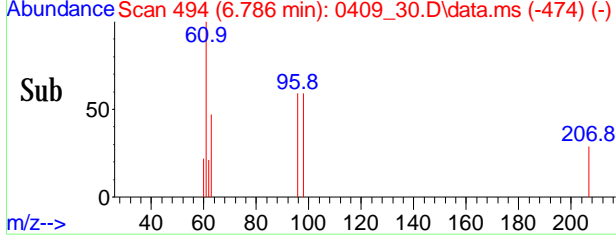
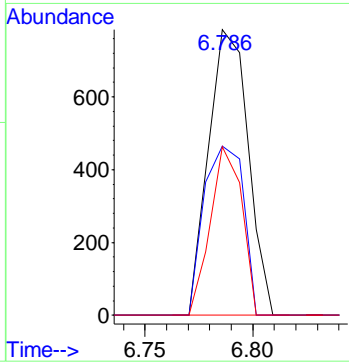
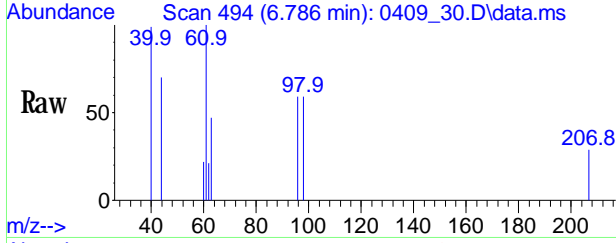
#25
Methyl Ethyl Ketone
 Conc: 8S 0.861 ppbv
 RT: 6.562 min Scan# 458
 Delta R.T. -0.011 min
 Lab File: 0409_30.D
 Acq: 10 Apr 2019 12:47 am

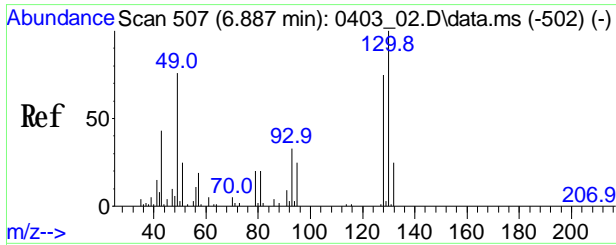
Tgt Ion	Ratio	Resp	Upper
43	100	27923	
72	14.1	24.6	37.0#
57	6.6	7.4	11.2#



#26
Cis-1,2-Dichloroethene
 Conc: 8S Below Cal
 RT: 6.786 min Scan# 494
 Delta R.T. -0.008 min
 Lab File: 0409_30.D
 Acq: 10 Apr 2019 12:47 am

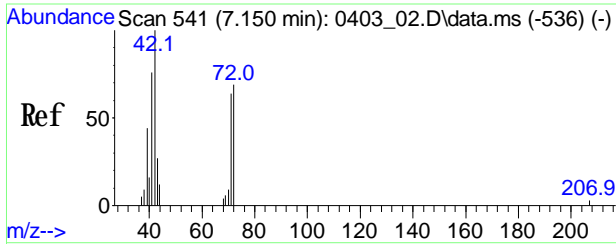
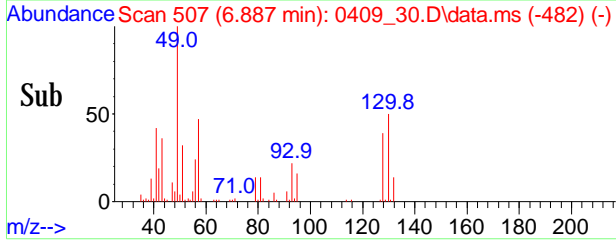
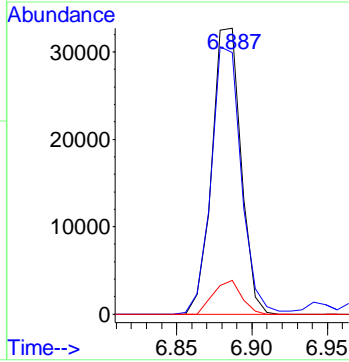
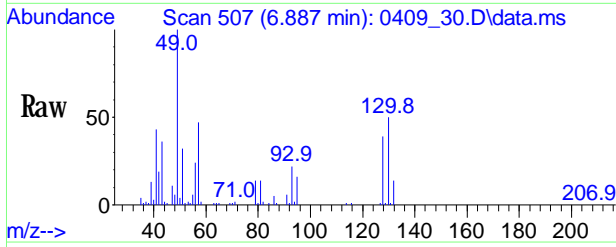
Tgt Ion	Ratio	Resp	Upper
61	100	996	
96	58.8	67.8	101.8#
98	46.8	43.8	65.6





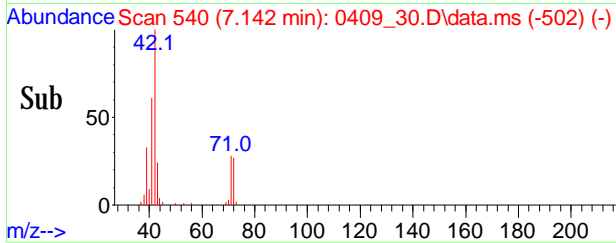
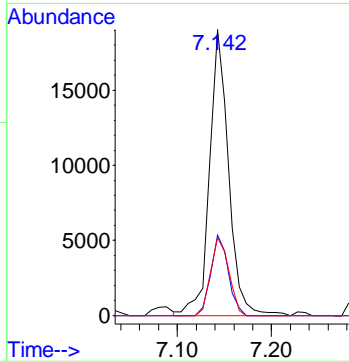
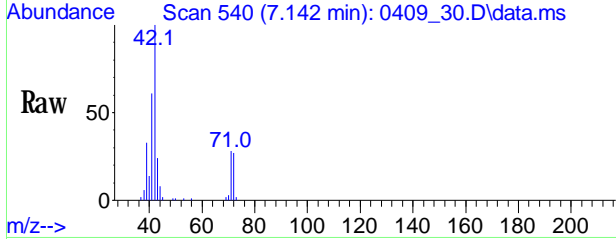
#27
 Hexane
 Conc: 8S 2.345 ppbv
 RT: 6.887 min Scan# 507
 Delta R.T. -0.000 min
 Lab File: 0409_30.D
 Acq: 10 Apr 2019 12:47 am

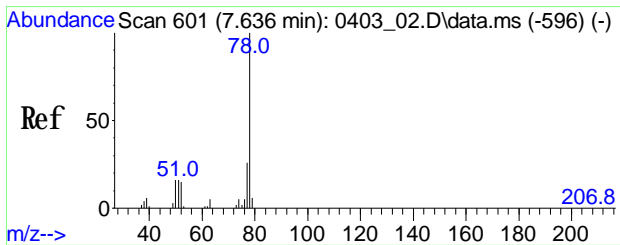
Tgt Ion	Ratio	Resp	Upper
57	100	43726	
41	97.1	58.9	88.3#
86	11.3	16.4	24.6#



#30
 Tetrahydrofuran
 Conc: 8S 1.950 ppbv
 RT: 7.142 min Scan# 540
 Delta R.T. -0.008 min
 Lab File: 0409_30.D
 Acq: 10 Apr 2019 12:47 am

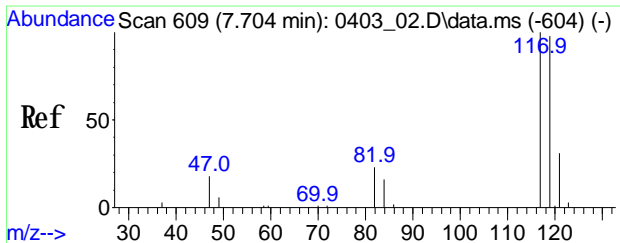
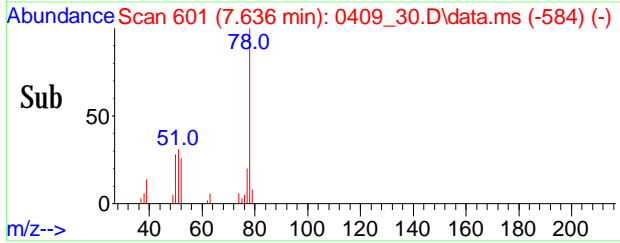
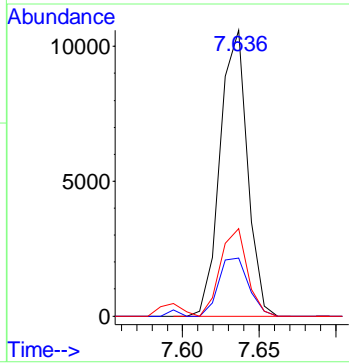
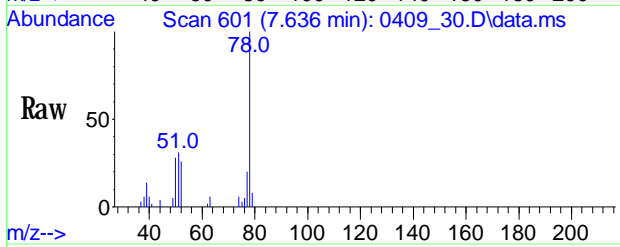
Tgt Ion	Ratio	Resp	Upper
42	100	26617	
71	25.6	45.8	68.6#
72	25.8	46.5	69.7#





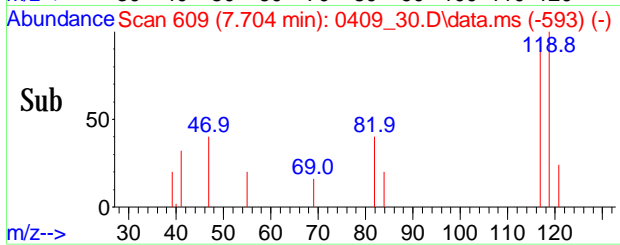
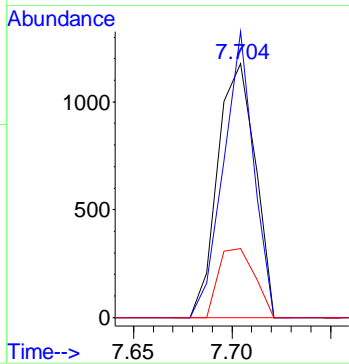
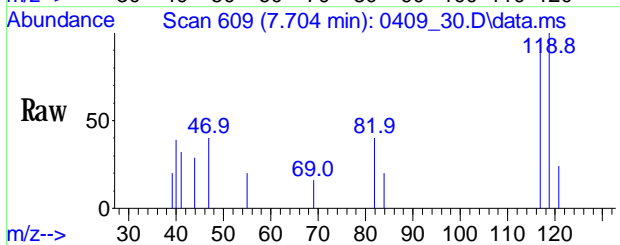
#33
 Benzene
 Conc: 8S 0.516 ppbv
 RT: 7.636 min Scan# 601
 Delta R.T. 0.000 min
 Lab File: 0409_30.D
 Acq: 10 Apr 2019 12:47 am

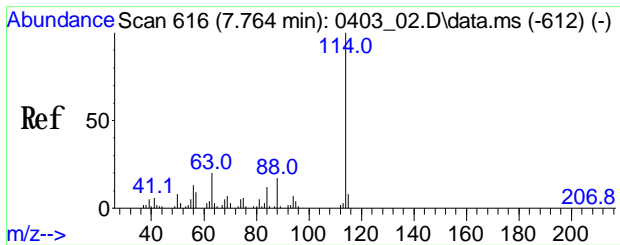
Tgt Ion	Ratio	Resp	Lower	Upper
78	100	13057		
77	22.4	18.6		27.8
51	30.4	12.9		19.3#



#34
 Carbon Tetrachloride
 Conc: 8S Below Cal
 RT: 7.704 min Scan# 609
 Delta R.T. 0.000 min
 Lab File: 0409_30.D
 Acq: 10 Apr 2019 12:47 am

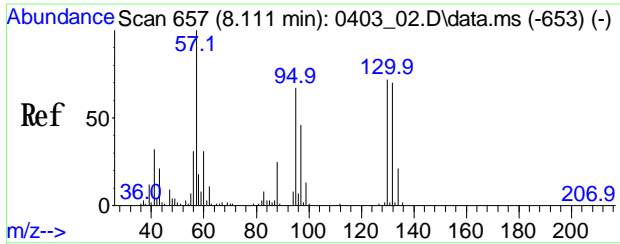
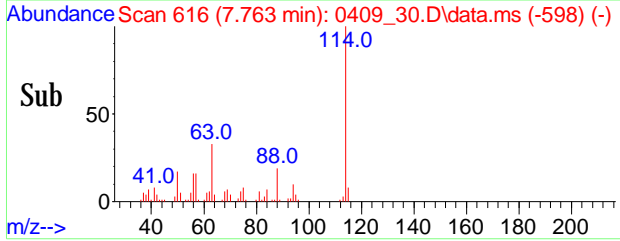
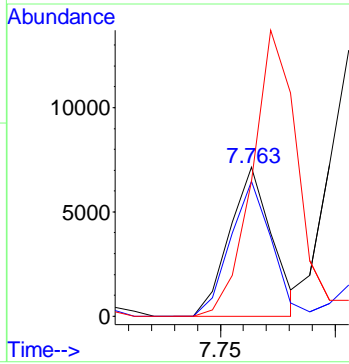
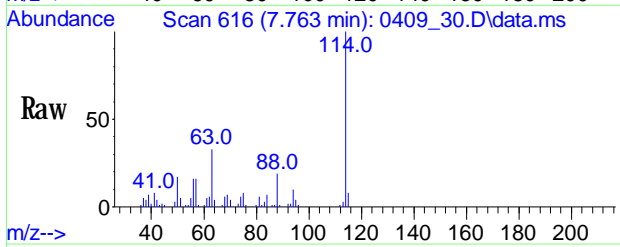
Tgt Ion	Ratio	Resp	Lower	Upper
117	100	1552		
119	90.6	75.8		115.8
121	26.2	10.7		50.7





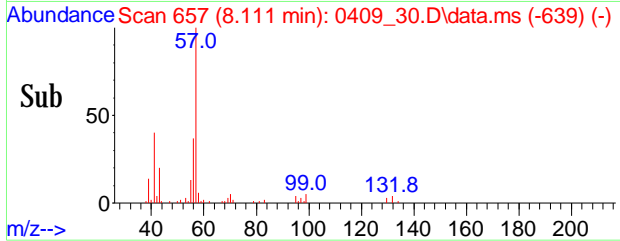
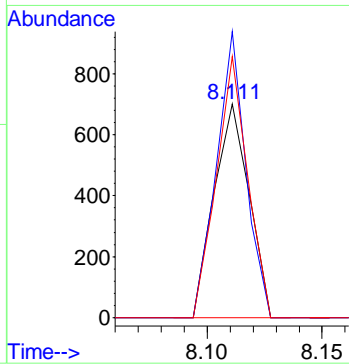
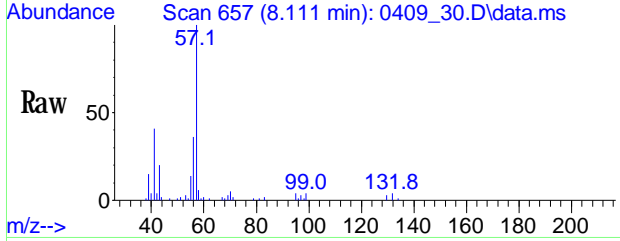
#35
 Cyclohexane
 Conc: 8S 0.902 ppbv
 RT: 7.763 min Scan# 616
 Delta R.T. 0.000 min
 Lab File: 0409_30.D
 Acq: 10 Apr 2019 12:47 am

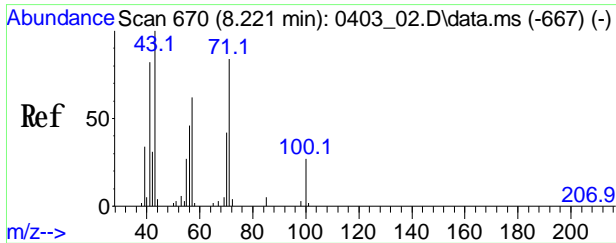
Tgt Ion	Ratio	Resp	Lower	Upper
41	100	9171		
84	88.5	158.4		237.6#
69	209.4	69.1		103.7#



#39
 Trichloroethene
 Conc: 8S Below Cal
 RT: 8.111 min Scan# 657
 Delta R.T. -0.000 min
 Lab File: 0409_30.D
 Acq: 10 Apr 2019 12:47 am

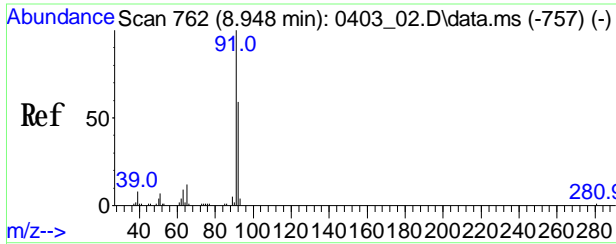
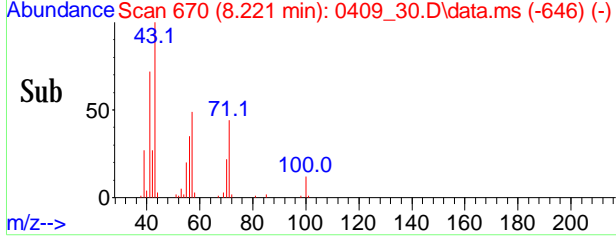
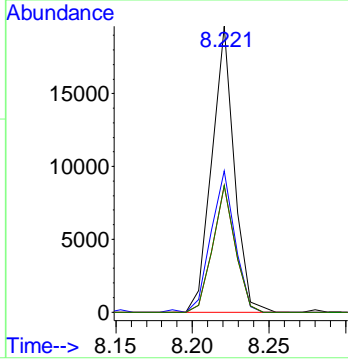
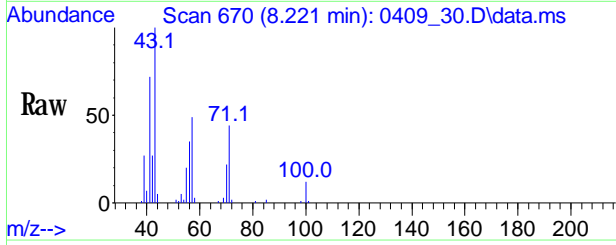
Tgt Ion	Ratio	Resp	Lower	Upper
130	100	740		
132	112.4	78.0		117.0
95	109.3	73.0		109.4





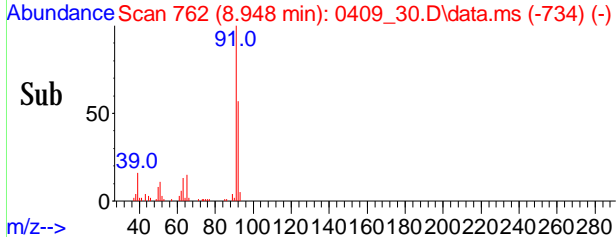
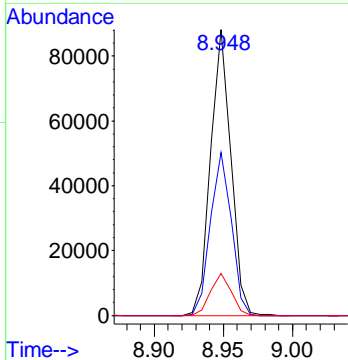
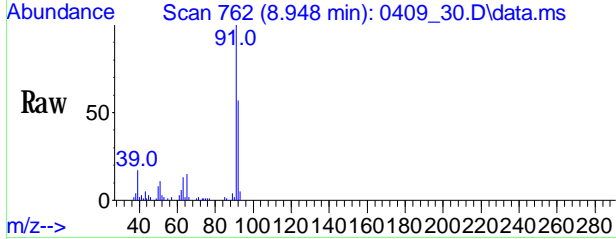
#43
 Heptane
 Conc: 8S 1.046 ppbv
 RT: 8.221 min Scan# 670
 Delta R.T. 0.000 min
 Lab File: 0409_30.D
 Acq: 10 Apr 2019 12:47 am

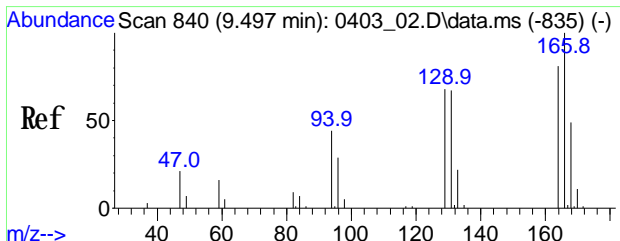
Tgt Ion	Ratio	Resp	Lower	Upper
43	100	19920		
57	52.7	49.7	74.5	
71	44.2	62.2	93.2#	
71	44.2	62.2	93.2#	



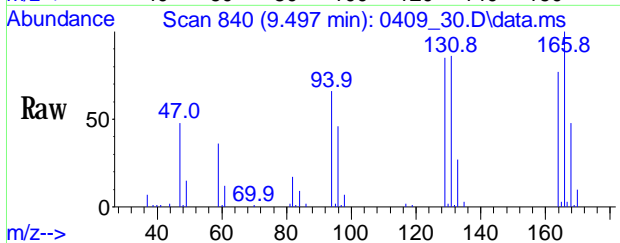
#48
 Toluene
 Conc: 8S 2.891 ppbv
 RT: 8.948 min Scan# 762
 Delta R.T. 0.000 min
 Lab File: 0409_30.D
 Acq: 10 Apr 2019 12:47 am

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	89494		
92	58.8	47.7	71.5	
65	15.1	9.3	13.9#	

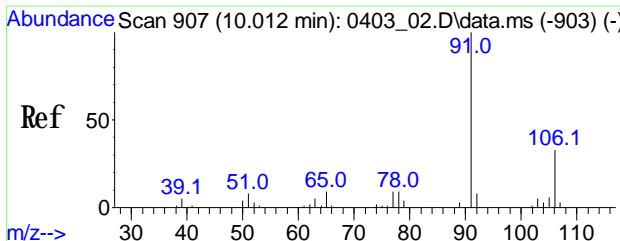
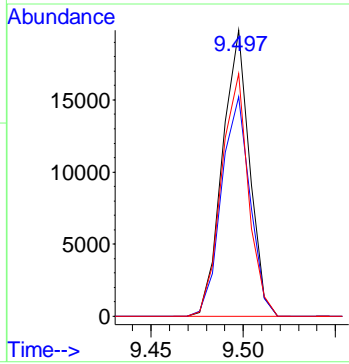
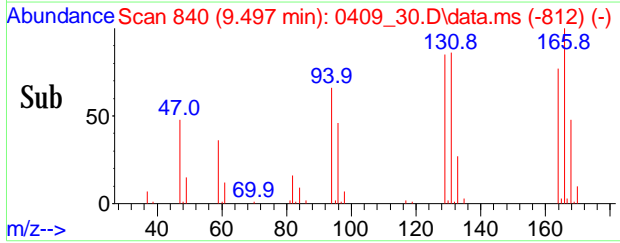




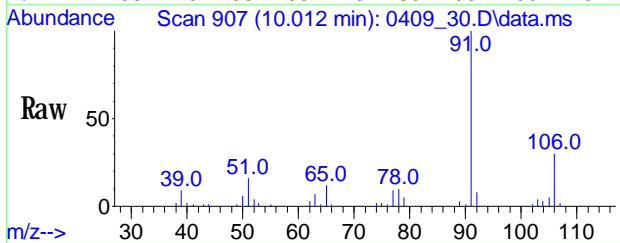
#52
Tetrachloroethene
 Conc: 8S 1.342 ppby
 RT: 9.497 min Scan# 840
 Delta R.T. 0.000 min
 Lab File: 0409_30.D
 Acq: 10 Apr 2019 12:47 am



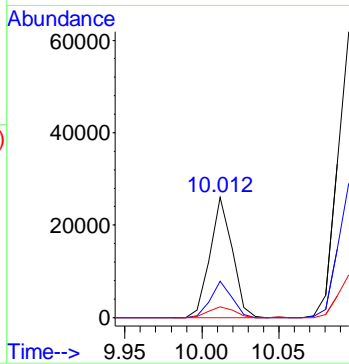
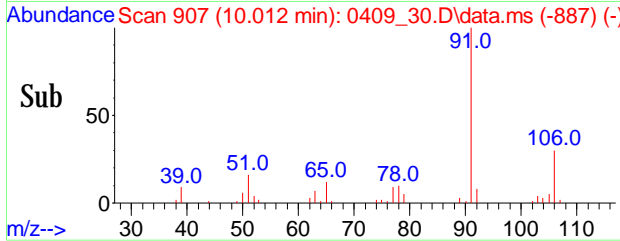
Tgt Ion: 166 Resp: 20124
 Ion Ratio Lower Upper
 166 100
 164 80.8 62.2 93.2
 129 84.8 54.9 82.3#

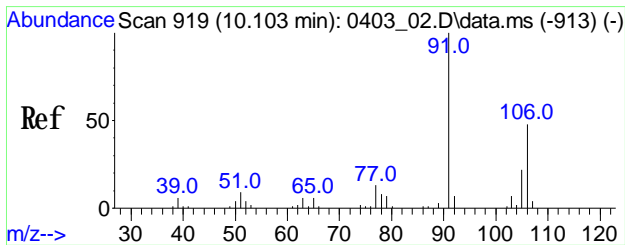


#56
Ethylbenzene
 Conc: 8S 0.581 ppby
 RT: 10.012 min Scan# 907
 Delta R.T. 0.000 min
 Lab File: 0409_30.D
 Acq: 10 Apr 2019 12:47 am



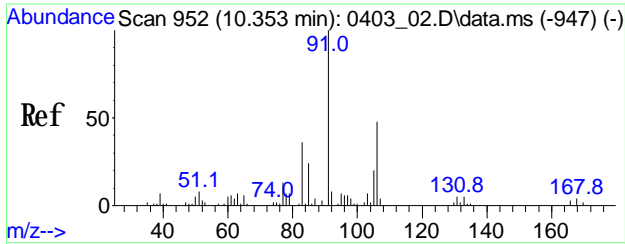
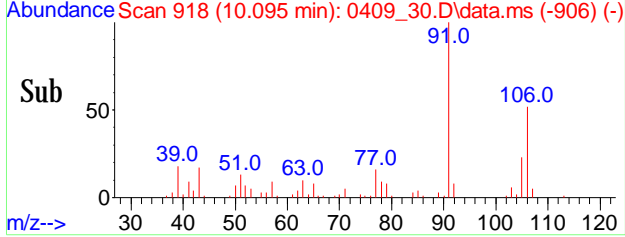
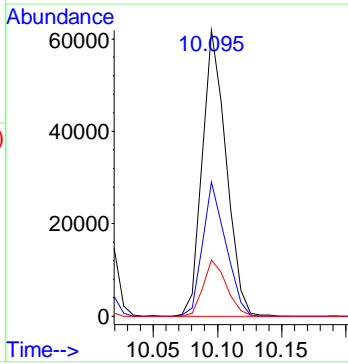
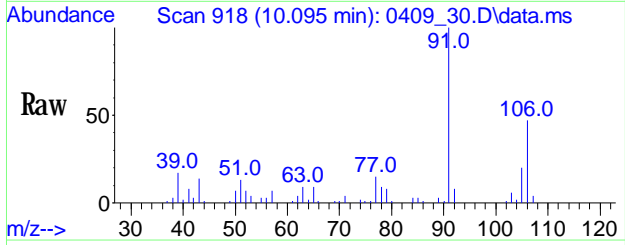
Tgt Ion: 91 Resp: 26020
 Ion Ratio Lower Upper
 91 100
 106 29.0 12.6 52.6
 77 10.1 0.0 29.1





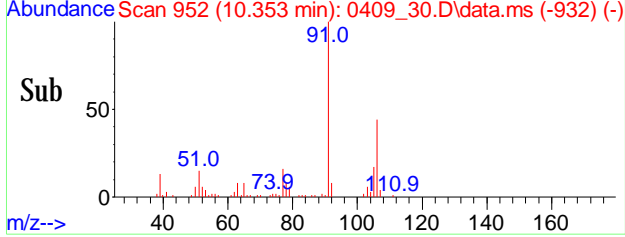
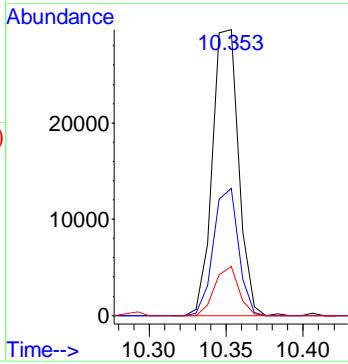
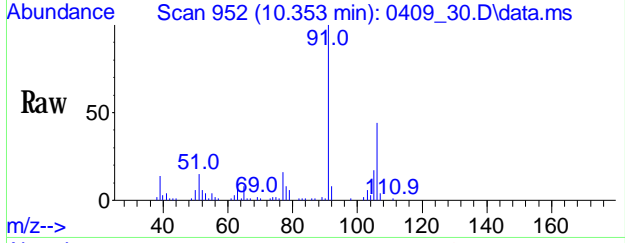
#57
 m p-Xylene
 Conc: 8S 2.352 ppbv
 RT: 10.095 min Scan# 918
 Delta R.T. -0.008 min
 Lab File: 0409_30.D
 Acq: 10 Apr 2019 12:47 am

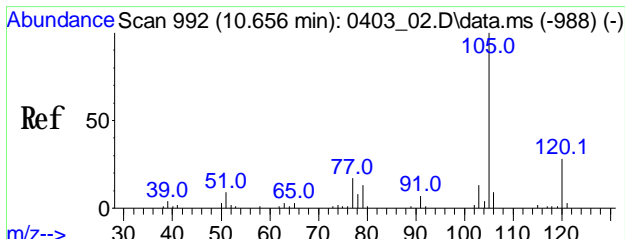
Tgt Ion	Ratio	Resp	Lower	Upper
91	100	80427		
106	45.5	40.9		61.3
105	19.1	17.8		26.8



#61
 o-Xylene
 Conc: 8S 0.977 ppbv
 RT: 10.353 min Scan# 952
 Delta R.T. 0.000 min
 Lab File: 0409_30.D
 Acq: 10 Apr 2019 12:47 am

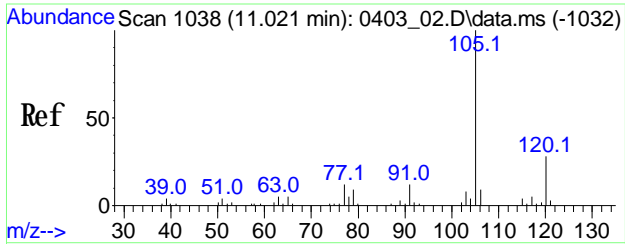
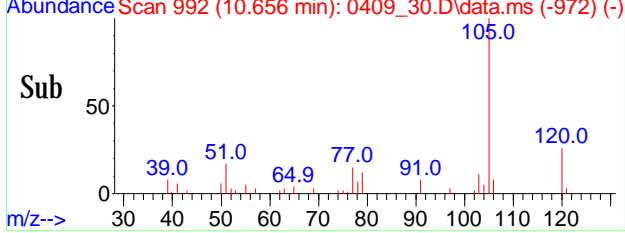
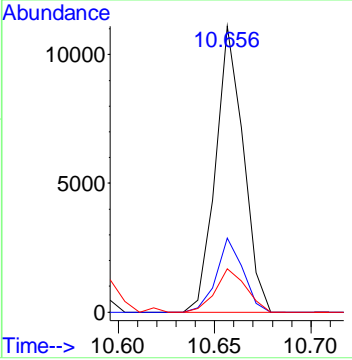
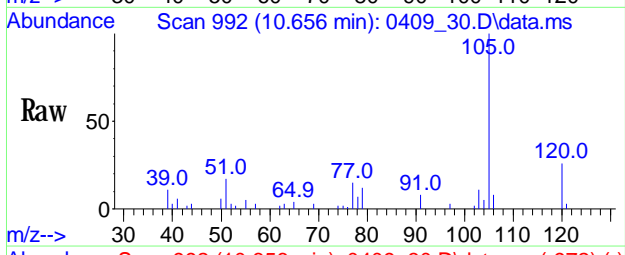
Tgt Ion	Ratio	Resp	Lower	Upper
91	100	34963		
106	42.4	38.3		57.5
105	15.7	15.2		22.8





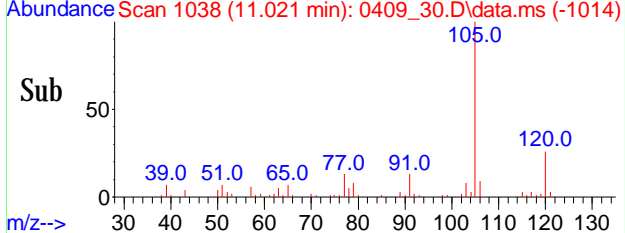
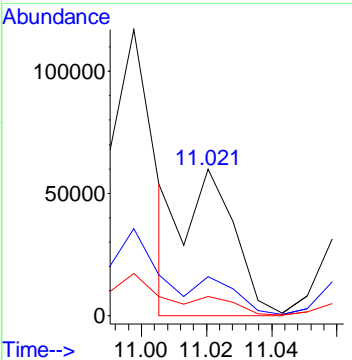
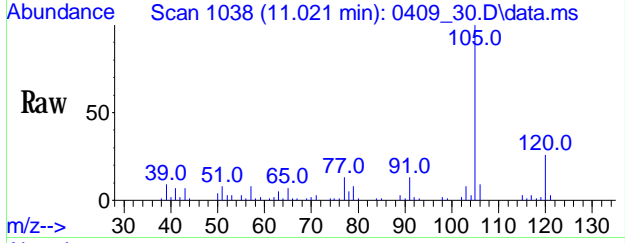
#64
Isopropylbenzene
 Conc: 8S 0.238 ppbv
 RT: 10.656 min Scan# 992
 Delta R.T. 0.000 min
 Lab File: 0409_30.D
 Acq: 10 Apr 2019 12:47 am

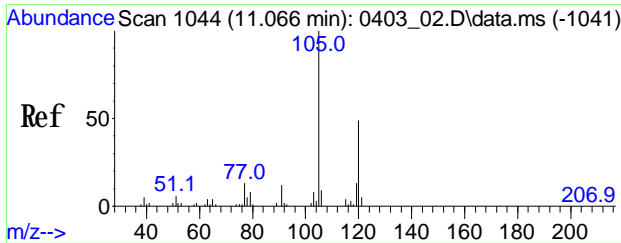
Tgt Ion	Ratio	Resp	Lower	Upper
105	100	11195		
120	24.8	22.0		33.0
77	16.6	12.7		19.1



#66
4-Ethyltoluene
 Conc: 8S 1.292 ppbv
 RT: 11.021 min Scan# 1038
 Delta R.T. 0.000 min
 Lab File: 0409_30.D
 Acq: 10 Apr 2019 12:47 am

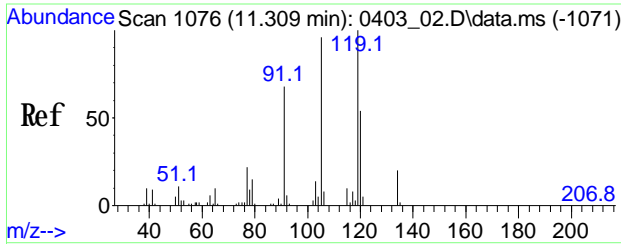
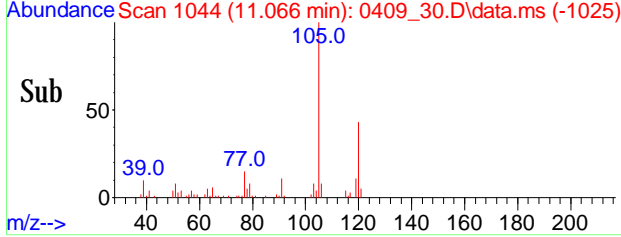
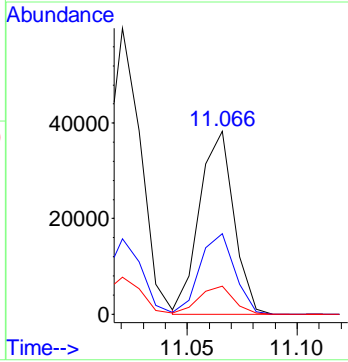
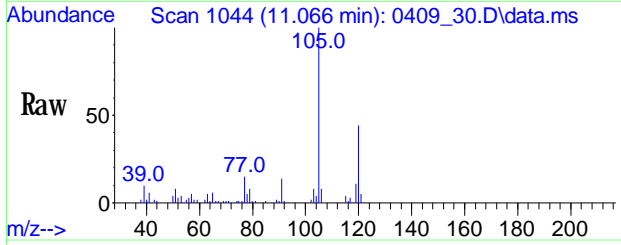
Tgt Ion	Ratio	Resp	Lower	Upper
105	100	61216		
120	83.4	25.0		37.4#
77	40.5	9.4		14.0#





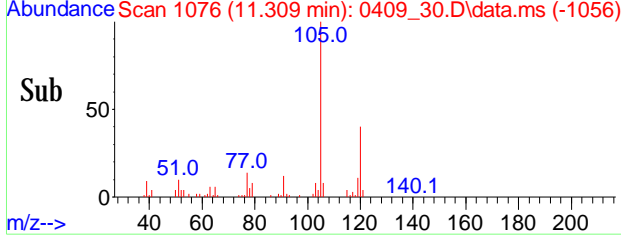
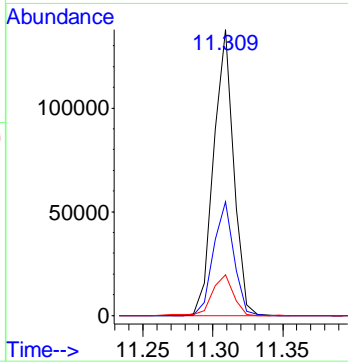
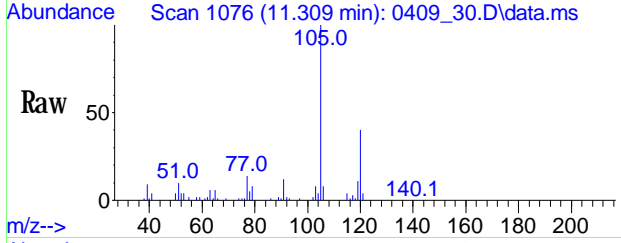
#67
 1,3,5-Trimethylbenzene
 Conc: 8S 1.014 ppbv
 RT: 11.066 min Scan# 1044
 Delta R.T. 0.000 min
 Lab File: 0409_30.D
 Acq: 10 Apr 2019 12:47 am

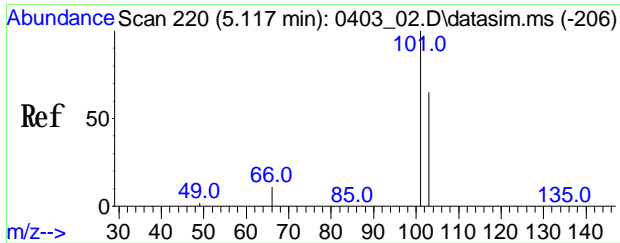
Tgt Ion	Ratio	Resp	Lower	Upper
105	100	41350		
120	44.5	39.7		59.5
77	15.4	10.2		15.4#



#68
 1,2,4-Trimethylbenzene
 Conc: 8S 3.438 ppbv
 RT: 11.309 min Scan# 1076
 Delta R.T. 0.000 min
 Lab File: 0409_30.D
 Acq: 10 Apr 2019 12:47 am

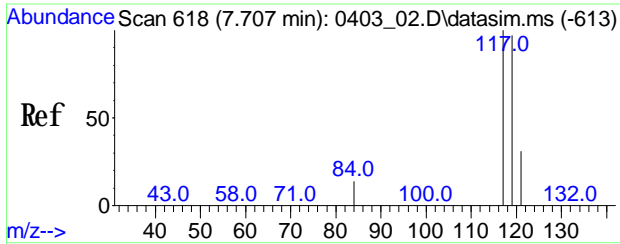
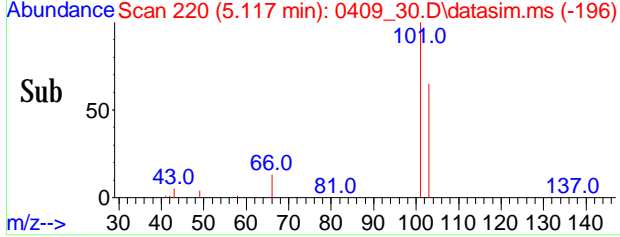
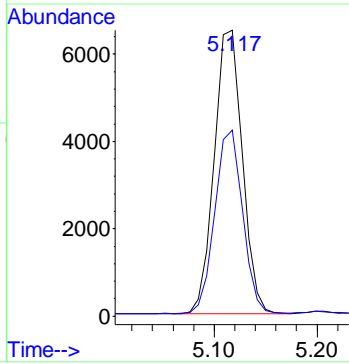
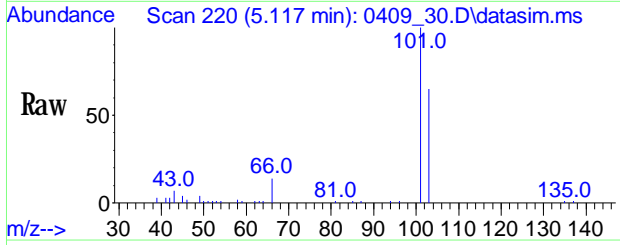
Tgt Ion	Ratio	Resp	Lower	Upper
105	100	137276		
120	40.5	44.5		66.7#
77	15.1	19.7		29.5#





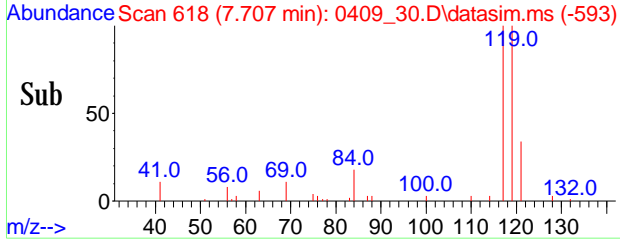
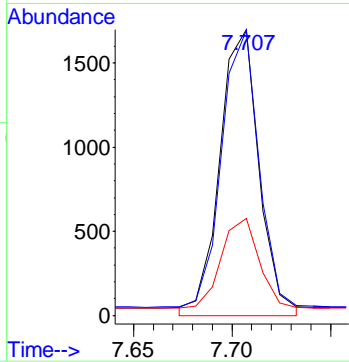
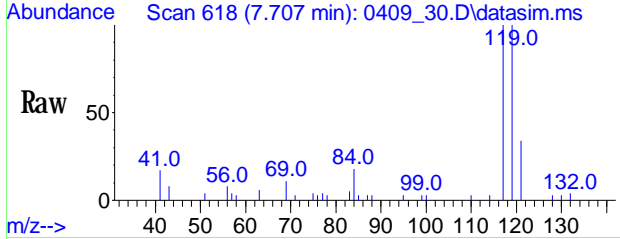
#84
 Trichlorofluoromethane(sim)
 Conc: 8S 0.228 ppbv
 RT: 5.117 min Scan# 220
 Delta R.T. -0.008 min
 Lab File: 0409_30.D
 Acq: 10 Apr 2019 12:47 am

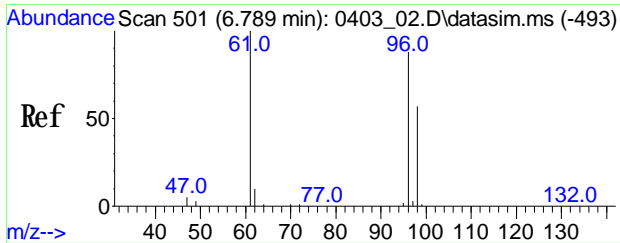
Tgt Ion	Ratio	Resp	Lower	Upper
101	100	12202		
103	63.7	51.9		77.9



#87
 Carbon Tetrachloride(sim)
 Conc: 8S 0.074 ppbv
 RT: 7.704 min Scan# 618
 Delta R.T. 0.000 min
 Lab File: 0409_30.D
 Acq: 10 Apr 2019 12:47 am

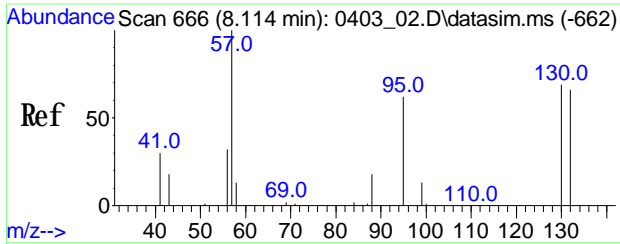
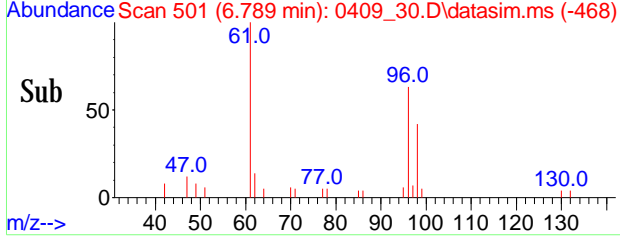
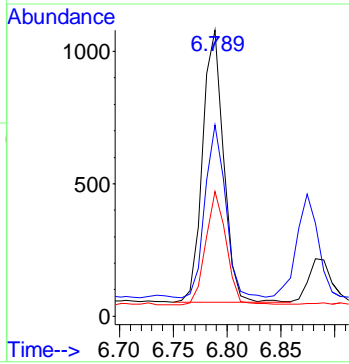
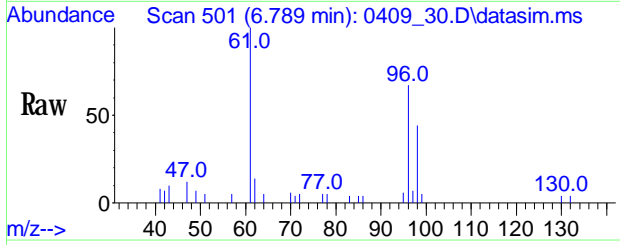
Tgt Ion	Ratio	Resp	Lower	Upper
117	100	1552		
119	90.6	76.6		115.0
121	26.2	24.6		36.8





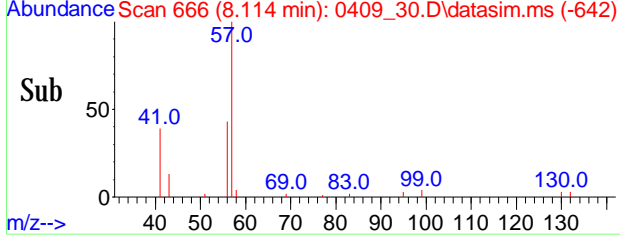
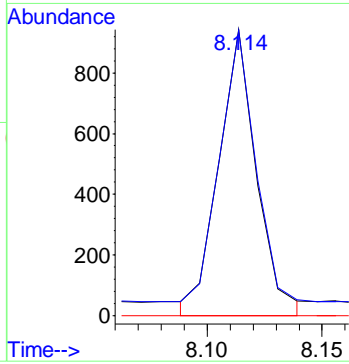
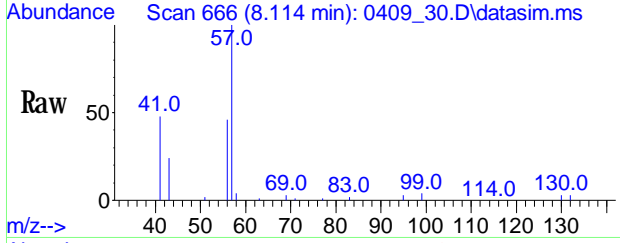
#92
 Cis-1,2-Dichloroethene(sim)
 Conc: 8S 0.058 ppbv
 RT: 6.789 min Scan# 501
 Delta R.T. 0.000 min
 Lab File: 0409_30.D
 Acq: 10 Apr 2019 12:47 am

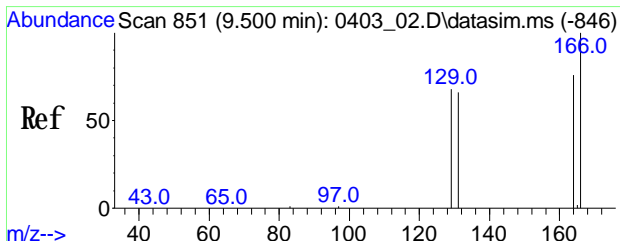
Tgt Ion	Ratio	Resp	Lower	Upper
61	100			
96	61.6	69.7	104.5#	
98	39.9	45.3	67.9#	



#97
 Trichloroethene(sim)
 Conc: 8S 0.047 ppbv
 RT: 8.111 min Scan# 666
 Delta R.T. 0.000 min
 Lab File: 0409_30.D
 Acq: 10 Apr 2019 12:47 am

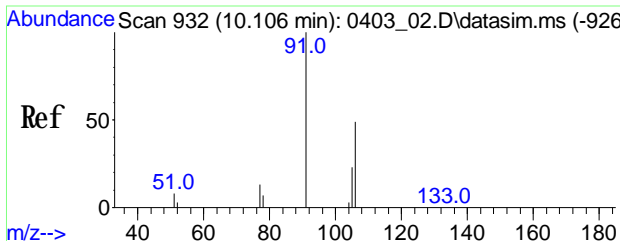
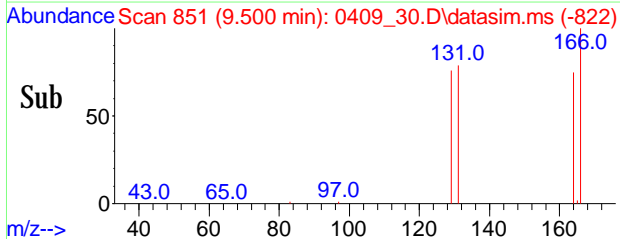
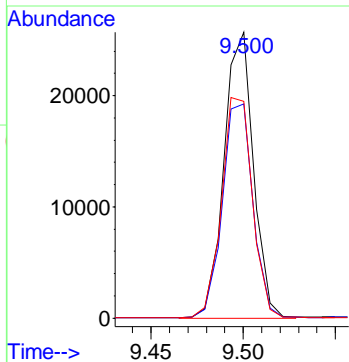
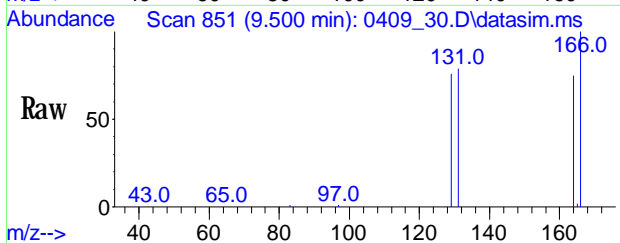
Tgt Ion	Ratio	Resp	Lower	Upper
130	100			
132	112.4	78.0	117.0	
97	95.8	47.2	70.8#	





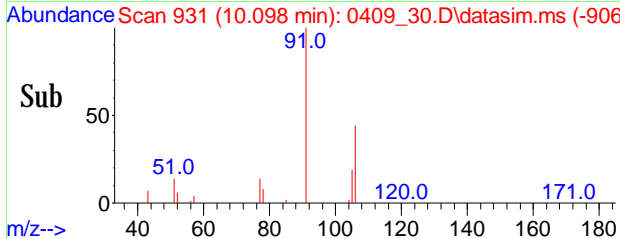
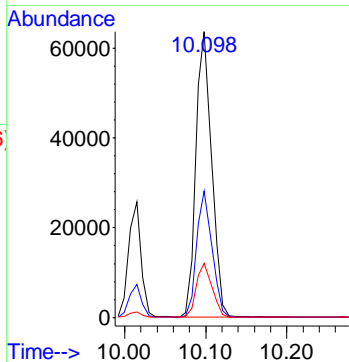
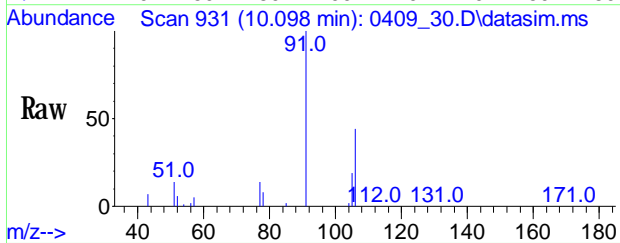
#103
 Tetrachloroethene (sim)
 Conc: 8S 1.173 ppbv
 RT: 9.497 min Scan# 851
 Delta R.T. 0.000 min
 Lab File: 0409_30.D
 Acq: 10 Apr 2019 12:47 am

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	20124		
164	80.8	57.7	97.7	
129	84.2	48.6	88.6	



#106
 m,p-Xylene (sim)
 Conc: 8S 2.331 ppbv
 RT: 10.098 min Scan# 931
 Delta R.T. -0.008 min
 Lab File: 0409_30.D
 Acq: 10 Apr 2019 12:47 am

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	85707		
106	43.3	44.3	54.1#	
105	18.8	17.7	26.5	



1
AIR ANALYSIS DATA SHEET

CLIENT ID

SS-10 5X

Client: WALDENE Lab: Phoenix Env. Labs

SDG No.: GCC90508 Lab Sample ID: CC90523 5X

Canister: 23327 Lab File ID: 0409_36.D

Instrument: CHEM20 Column: RTX-1 60M Date Received: 04/08/19

Purge Volume 200 (cc) Date Analyzed: 04/10/19

Matrix: AIR Dilution Factor: 5

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	2.91	U	2.91	2.91	r
75-71-8	Dichlorodifluoromethane	1.01	U	1.01	1.01	r
74-87-3	Chloromethane	2.42	U	2.42	2.42	r
106-99-0	1,3-Butadiene	2.26	U	2.26	2.26	r
75-00-3	Chloroethane	1.90	U	1.90	1.90	r
64-17-5	Ethanol	10.0	S	2.66	2.66	r
67-64-1	Acetone	78.5	S	2.11	2.11	r
67-63-0	Isopropylalcohol	2.04	U	2.04	2.04	r
107-13-1	Acrylonitrile	2.31	U	2.31	2.31	r
75-09-2	Methylene Chloride	4.32	U	4.32	4.32	r
75-15-0	Carbon Disulfide	1.66		1.61	1.61	r
1634-04-4	Methyl tert-butyl ether(MTBE)	1.39	U	1.39	1.39	r
78-93-3	Methyl Ethyl Ketone	6.72		1.70	1.70	r
110-54-3	Hexane	1.90	S	1.42	1.42	r
67-66-3	Chloroform	5.46		1.02	1.02	r
141-78-6	Ethyl acetate	1.39	U	1.39	1.39	r
109-99-9	Tetrahydrofuran	1.70	U	1.70	1.70	r
71-43-2	Benzene	2.08		1.57	1.57	r
110-82-7	Cyclohexane	1.45	U	1.45	1.45	r
79-01-6	Trichloroethene	15.3		0.186	0.186	r
142-82-5	Heptane	2.60		1.22	1.22	r
108-10-1	4-Methyl-2-pentanone(MIBK)	1.22	U	1.22	1.22	r
10061-02-6	trans-1,3-Dichloropropene	1.10	U	1.10	1.10	r
108-88-3	Toluene	9.43		1.33	1.33	r
591-78-6	2-Hexanone(MBK)	1.22	U	1.22	1.22	r
127-18-4	Tetrachloroethene	852	E	0.184	0.184	
630-20-6	1,1,1,2-Tetrachloroethane	0.729	U	0.729	0.729	r
108-90-7	Chlorobenzene	1.09	U	1.09	1.09	r
100-41-4	Ethylbenzene	2.36		1.15	1.15	r
179601-23-1	m,p-Xylene	11.2		1.15	1.15	r
100-42-5	Styrene	1.17	U	1.17	1.17	r
95-47-6	o-Xylene	3.12		1.15	1.15	r
98-82-8	Isopropylbenzene	1.02	U	1.02	1.02	r
622-96-8	4-Ethyltoluene	1.54		1.02	1.02	r
108-67-8	1,3,5-Trimethylbenzene	1.11		1.02	1.02	r
95-63-6	1,2,4-Trimethylbenzene	4.96		1.02	1.02	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

SS-10 5X

Client:	<u>WALDENE</u>	Lab:	<u>Phoenix Env. Labs</u>
SDG No.:	<u>GCC90508</u>	Lab Sample ID:	<u>CC90523 5X</u>
Canister:	<u>23327</u>	Lab File ID:	<u>0409_36.D</u>
Instrument:	<u>CHEM20</u>	Column:	<u>RTX-1 60M</u>
Purge Volume	<u>200</u> (cc)	Date Received:	<u>04/08/19</u>
Matrix:	<u>AIR</u>	Date Analyzed:	<u>04/10/19</u>
		Dilution Factor:	<u>5</u>

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.716	U	0.716	0.716	r
75-01-4	Vinyl Chloride(sim)	0.391	U	0.391	0.391	r
74-83-9	Bromomethane(sim)	1.29	U	1.29	1.29	r
75-69-4	Trichlorofluoromethane(sim)	0.891	U	0.891	0.891	r
107-06-2	1,2-Dichloroethane(sim)	1.24	U	1.24	1.24	r
71-55-6	1,1,1-Trichloroethane(sim)	0.917	U	0.917	0.917	r
56-23-5	Carbon Tetrachloride(sim)	0.159	U	0.159	0.159	r
75-35-4	1,1-Dichloroethene(sim)	0.252	U	0.252	0.252	r
76-13-1	Trichlorotrifluoroethane(sim)	0.653	U	0.653	0.653	r
156-60-5	Trans-1,2-Dichloroethene(sim)	1.26	U	1.26	1.26	r
75-34-3	1,1-Dichloroethane(sim)	1.24	U	1.24	1.24	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.252	U	0.252	0.252	r
78-87-5	1,2-dichloropropane(sim)	1.08	U	1.08	1.08	r
75-27-4	Bromodichloromethane(sim)	0.747	U	0.747	0.747	r
123-91-1	1,4-Dioxane(sim)	1.39	U	1.39	1.39	r
10061-01-5	cis-1,3-Dichloropropene(sim)	1.10	U	1.10	1.10	r
79-00-5	1,1,2-Trichloroethane(sim)	0.917	U	0.917	0.917	r
124-48-1	Dibromochloromethane(sim)	0.587	U	0.587	0.587	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.651	U	0.651	0.651	r
75-25-2	Bromoform(sim)	0.484	U	0.484	0.484	r
79-34-5	1,1,1,2-Tetrachloroethane(sim)	0.729	U	0.729	0.729	r
100-44-7	Benzyl chloride(sim)	0.966	U	0.966	0.966	r
541-73-1	1,3-Dichlorobenzene(sim)	0.832	U	0.832	0.832	r
106-46-7	1,4-Dichlorobenzene(sim)	0.832	U	0.832	0.832	r
135-98-8	sec-Butylbenzene(sim)	0.911	U	0.911	0.911	r
99-87-6	4-Isopropyltoluene(sim)	0.911	U	0.911	0.911	r
95-50-1	1,2-Dichlorobenzene(sim)	0.832	U	0.832	0.832	r
104-51-8	n-Butylbenzene(sim)	0.911	U	0.911	0.911	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.674	U	0.674	0.674	r
87-68-3	Hexachlorobutadiene(sim)	0.469	U	0.469	0.469	r

FORM I AIR

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

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2019\CHEM20\04APR\09\
 Data File : 0409_36.D
 Acq On : 10 Apr 2019 04:33 am
 Operator : CORTEX\ns
 Client ID : SS-10 5X
 Lab ID : CC90523 5X
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 10 10:29:28 2019
 Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_0409.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Wed Apr 10 09:07:16 2019
 Response via : Initial Calibration

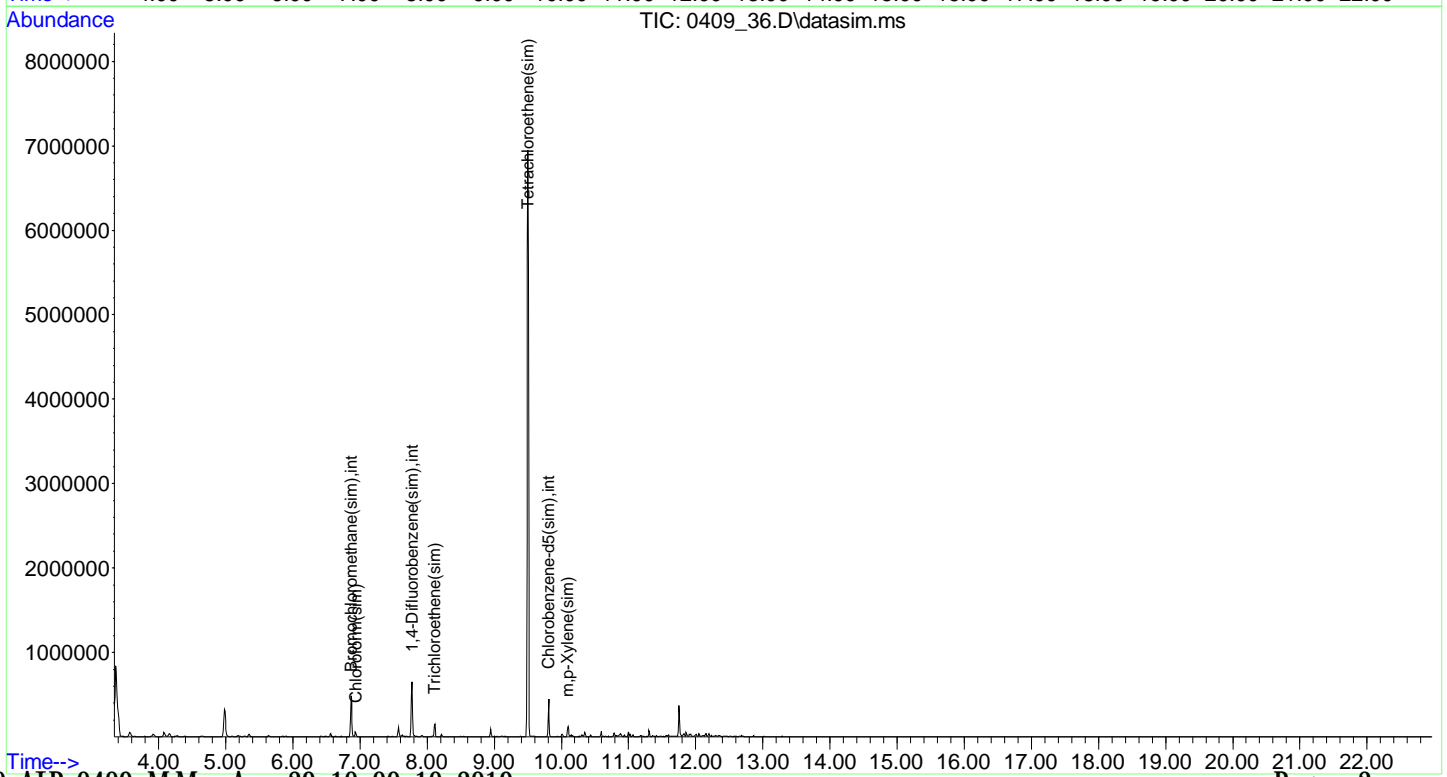
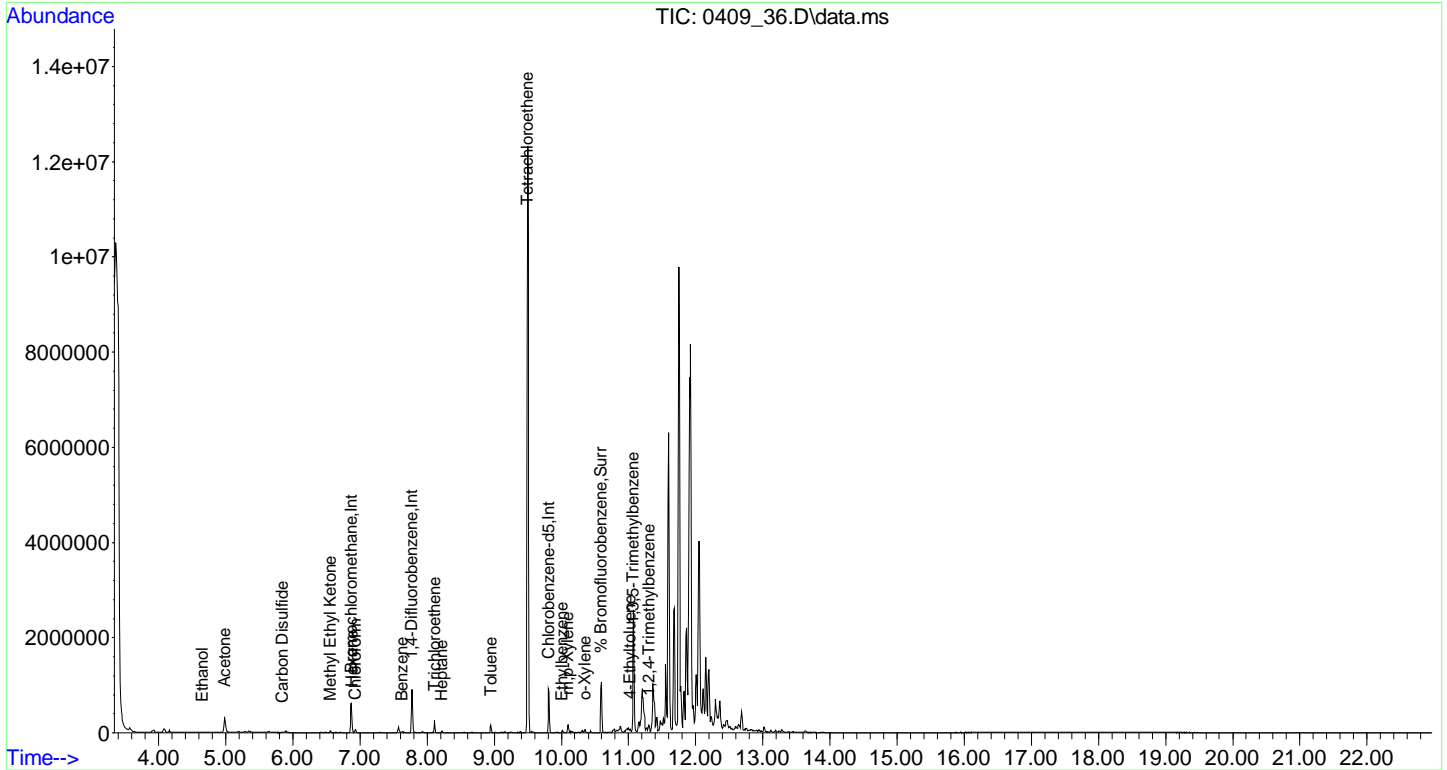
Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
Internal Standards						
1) Bromchloromethane	6.871	130	108660	10.000	ng	0.00
36) 1,4-Difluorobenzene	7.772	114	370681	10.000	ng	0.00
53) Chlorobenzene-d5	9.807	82	178139	10.000	ng	# 0.00
80) Bromchloromethane(sim)	6.874	130	153033	10.000	ng	# 0.00
94) 1,4-Difluorobenzene(sim)	7.775	114	424362	10.000	ng	0.00
104) Chlorobenzene-d5(sim)	9.810	82	177125	10.000	ng	# 0.00
System Monitoring Compounds						
62) % Bromfluorobenzene	10.596	95	243255	10.416	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	104.20%
Target Compounds						
						Qvalue
11) Ethanol	4.652	45	9345	1.999	ppbv	99
12) Acetone	4.984	43	381450	15.701	ppbv#	85
20) Carbon Disulfide	5.840	76	7919	0.332	ppbv#	95
25) Methyl Ethyl Ketone	6.557	43	41083	1.344	ppbv#	76
27) Hexane	6.879	57	6666	0.379	ppbv#	53
28) Chloroform	6.933	83	27555	1.091	ppbv	89
33) Benzene	7.628	78	9902	0.416	ppbv#	84
39) Trichloroethene	8.111	130	42461	3.051	ppbv#	86
43) Heptane	8.221	43	9716	0.520	ppbv#	62
48) Toluene	8.948	91	57311	1.886	ppbv#	98
52) Tetrachloroethene	9.497	166	2507576	170.357	ppbv	93
56) Ethylbenzene	10.012	91	19919	0.472	ppbv	92
57) m p-Xylene	10.095	91	71894	2.232	ppbv	92
61) o-Xylene	10.353	91	21028	0.624	ppbv	96
66) 4-Ethyltoluene	11.021	105	13673m	0.306	ppbv	85
67) 1,3,5-Trimethylbenzene	11.066	105	8498	0.221	ppbv#	76
68) 1,2,4-Trimethylbenzene	11.309	105	37298	0.992	ppbv#	79
93) Chloroform(sim)	6.933	83	27555	0.950	ppbv#	89
97) Trichloroethene(sim)	8.111	130	42461	2.777	ppbv#	90
103) Tetrachloroethene(sim)	9.497	166	2507576	150.438	ppbv	93
106) m p-Xylene(sim)	10.098	91	75327	2.206	ppbv#	92

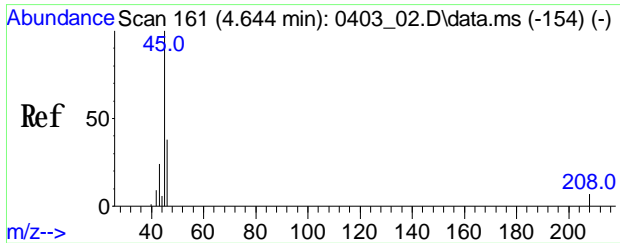
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2019\CHEM20\04APR\09\
Data File : 0409_36.D
Acq On : 10 Apr 2019 04:33 am
Operator : CORTEX\ns
Client ID : SS-10_5X
Lab ID : CC90523_5X
ALS Vial : 1 Sample Multiplier: 1

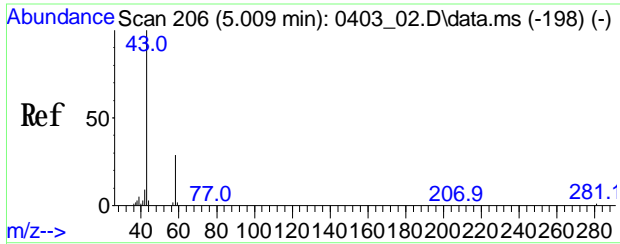
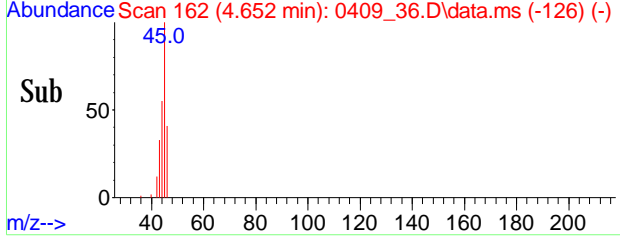
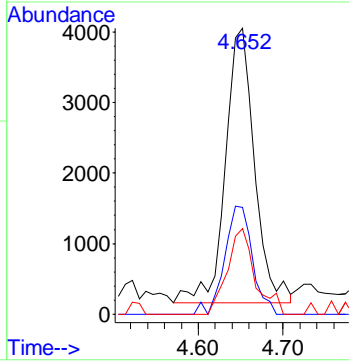
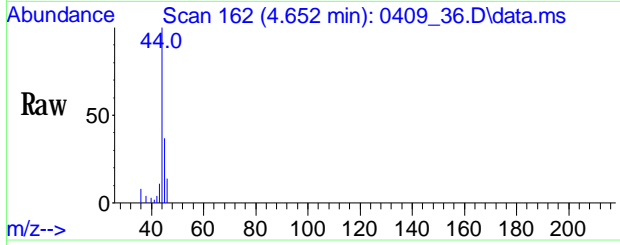
Quant Time: Apr 10 10:29:28 2019
Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_0409.M
Quant Title : VOA Standards for 5 point calibration
Last Update : Wed Apr 10 09:07:16 2019
Response via : Initial Calibration





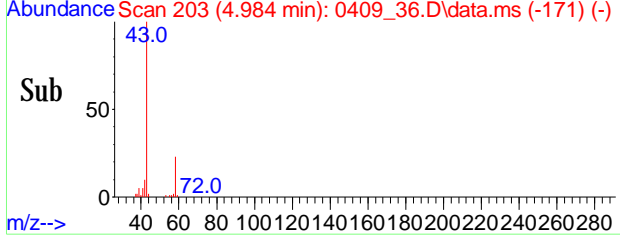
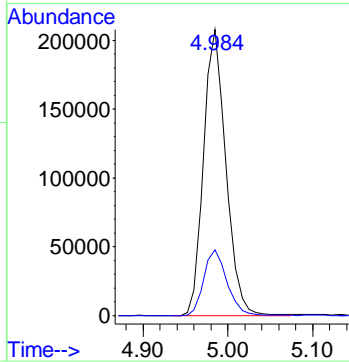
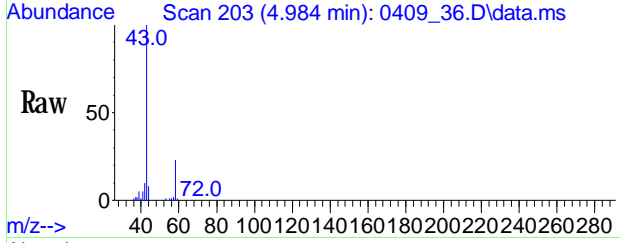
#11
 Ethanol
 Conc: 8S 1.999 ppbv
 RT: 4.652 min Scan# 162
 Delta R.T. -0.008 min
 Lab File: 0409_36.D
 Acq: 10 Apr 2019 04:33 am

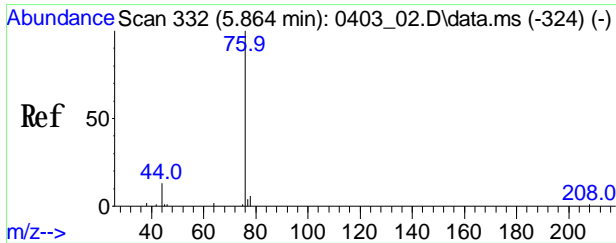
Tgt Ion	Ratio	Resp	Lower	Upper
45	100	9345		
46	37.2	29.9	44.9	
43	29.5	22.7	34.1	



#12
 Acetone
 Conc: 8S 15.701 ppbv
 RT: 4.984 min Scan# 203
 Delta R.T. -0.041 min
 Lab File: 0409_36.D
 Acq: 10 Apr 2019 04:33 am

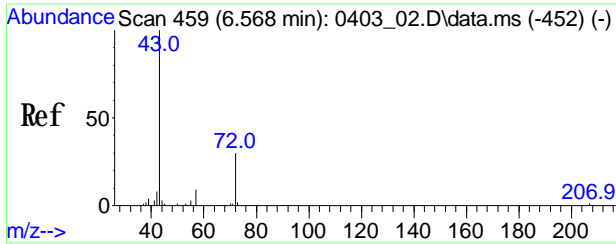
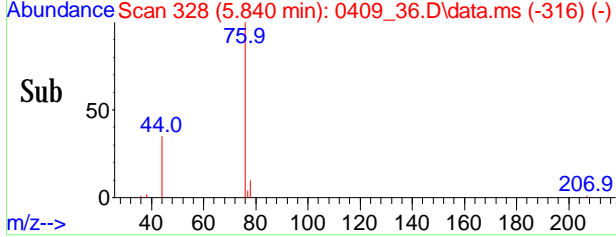
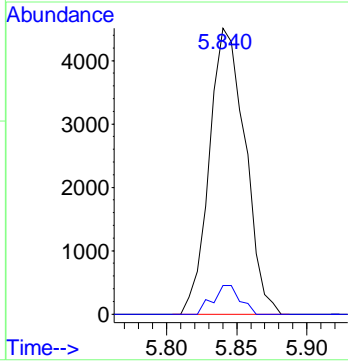
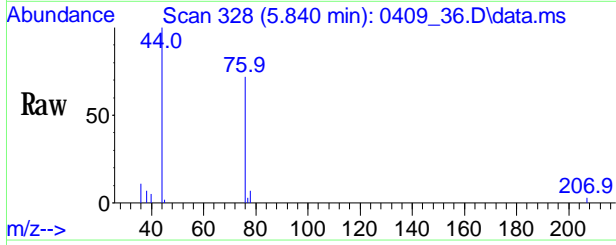
Tgt Ion	Ratio	Resp	Lower	Upper
43	100	381450		
58	23.8	25.9	38.9#	





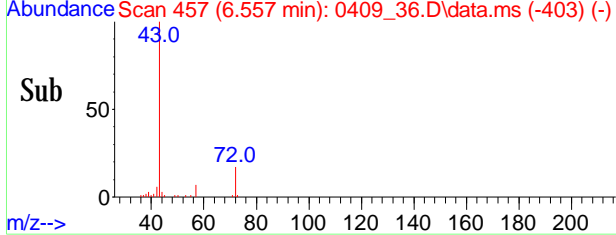
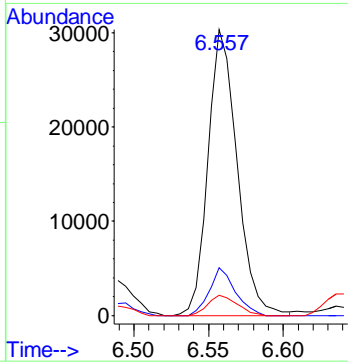
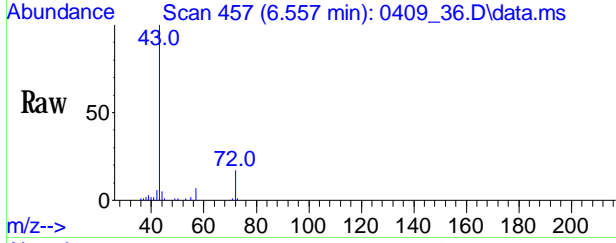
#20
Carbon Disulfide
 Conc: 8S 0.332 ppbv
 RT: 5.840 min Scan# 328
 Delta R.T. -0.030 min
 Lab File: 0409_36.D
 Acq: 10 Apr 2019 04:33 am

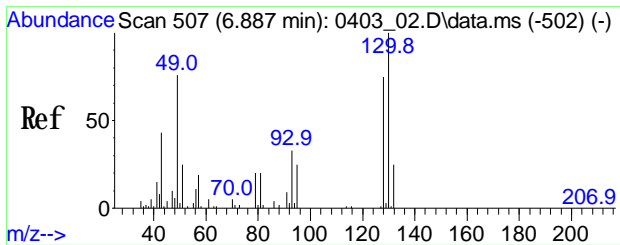
Tgt Ion	Ratio	Resp	Lower	Upper
76	100	7919		
78	7.6	7.6	11.4#	



#25
Methyl Ethyl Ketone
 Conc: 8S 1.344 ppbv
 RT: 6.557 min Scan# 457
 Delta R.T. -0.016 min
 Lab File: 0409_36.D
 Acq: 10 Apr 2019 04:33 am

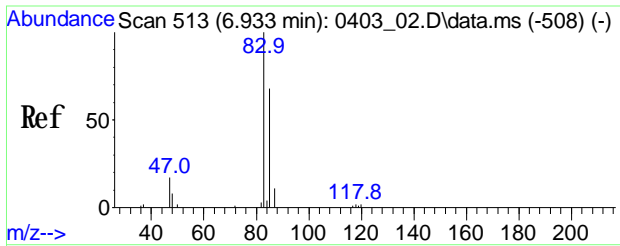
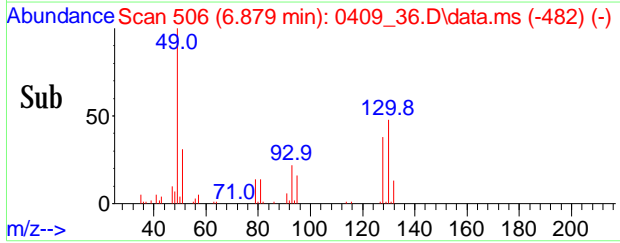
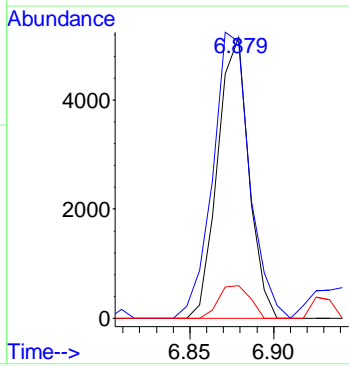
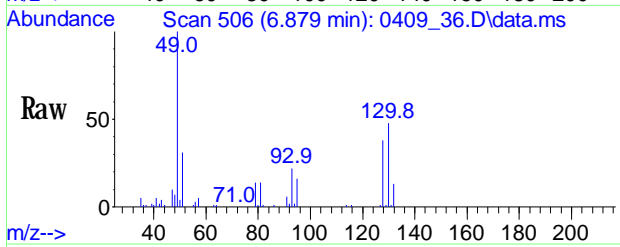
Tgt Ion	Ratio	Resp	Lower	Upper
43	100	41083		
72	14.8	24.6	37.0#	
57	7.1	7.4	11.2#	





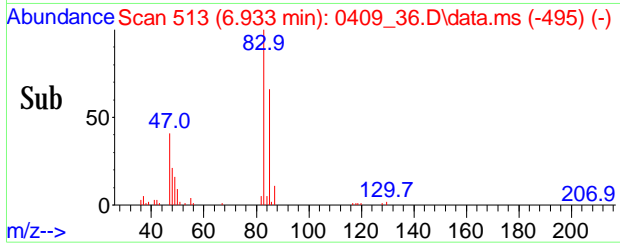
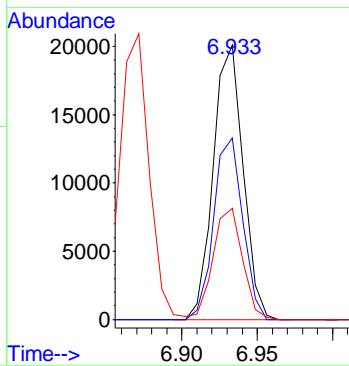
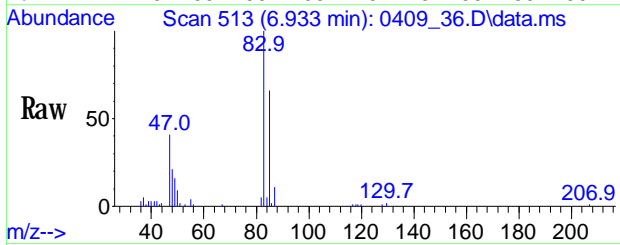
#27
 Hexane
 Conc: 8S 0.379 ppbv
 RT: 6.879 min Scan# 506
 Delta R.T. -0.008 min
 Lab File: 0409_36.D
 Acq: 10 Apr 2019 04:33 am

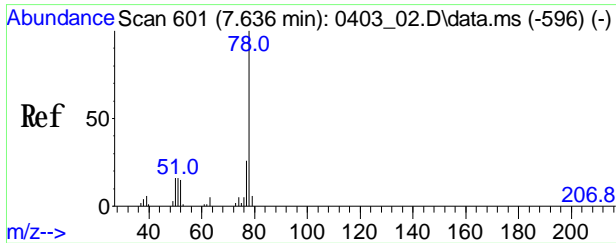
Tgt Ion: 57 Resp: 6666
 Ion Ratio Lower Upper
 57 100
 41 119.7 58.9 88.3#
 86 11.6 16.4 24.6#



#28
 Chloroform
 Conc: 8S 1.091 ppbv
 RT: 6.933 min Scan# 513
 Delta R.T. -0.008 min
 Lab File: 0409_36.D
 Acq: 10 Apr 2019 04:33 am

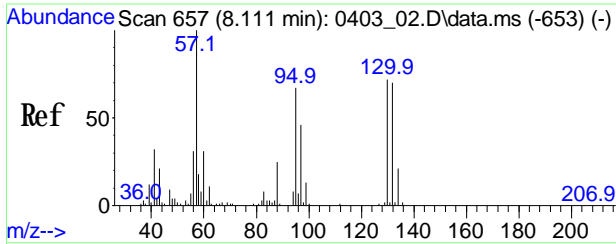
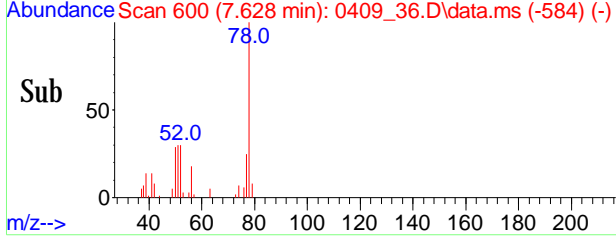
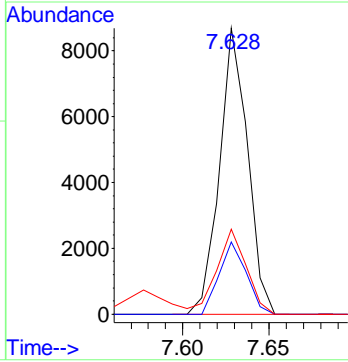
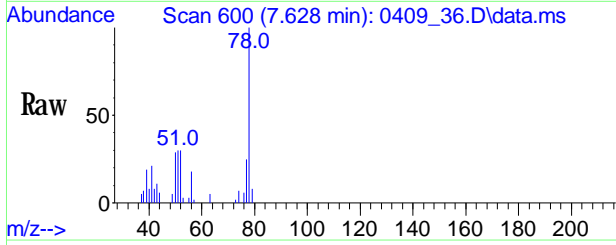
Tgt Ion: 83 Resp: 27555
 Ion Ratio Lower Upper
 83 100
 85 64.3 45.9 85.9
 47 40.0 0.8 40.8





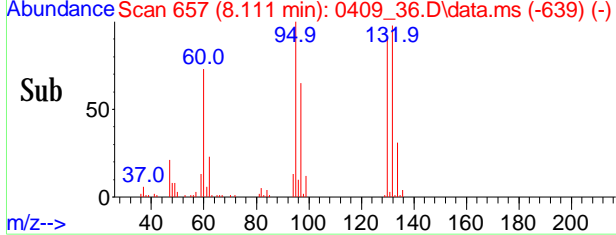
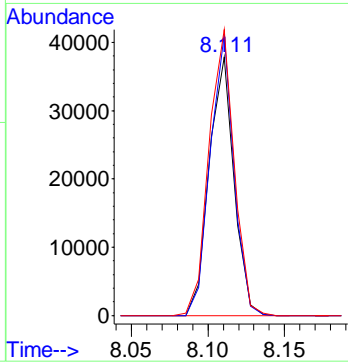
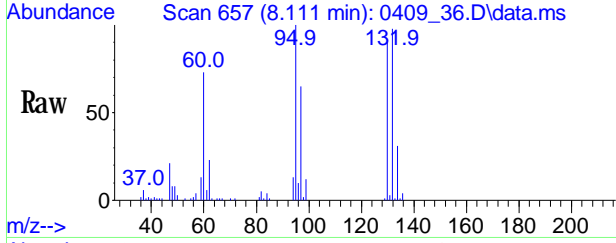
#33
Benzene
Conc: 8S 0.416 ppby
RT: 7.628 min Scan# 600
Delta R.T. -0.008 min
Lab File: 0409_36.D
Acq: 10 Apr 2019 04:33 am

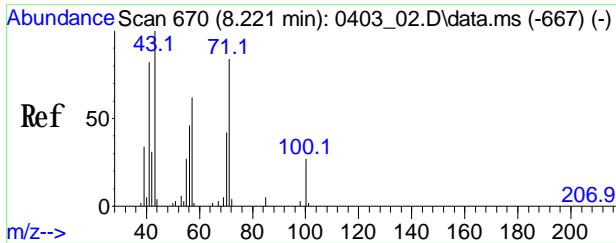
Tgt Ion	Ratio	Resp	Upper
78	100	9902	
77	24.6	18.6	27.8
51	31.3	12.9	19.3#



#39
Trichloroethene
Conc: 8S 3.051 ppby
RT: 8.111 min Scan# 657
Delta R.T. -0.000 min
Lab File: 0409_36.D
Acq: 10 Apr 2019 04:33 am

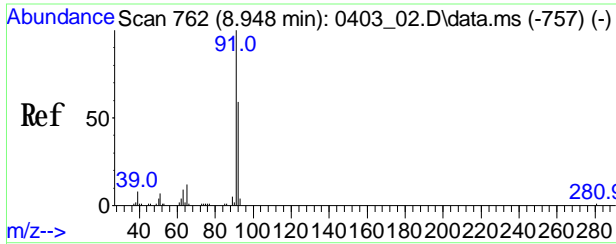
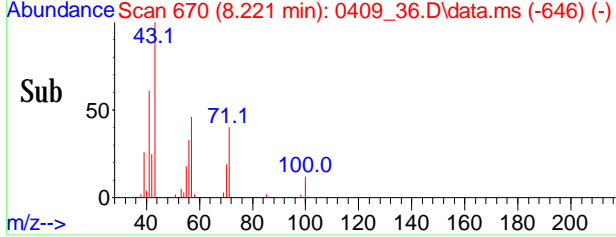
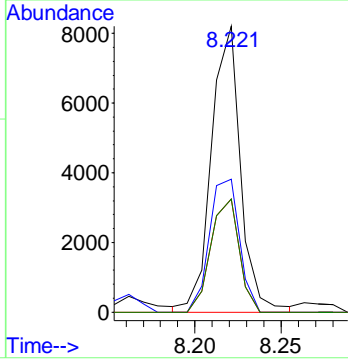
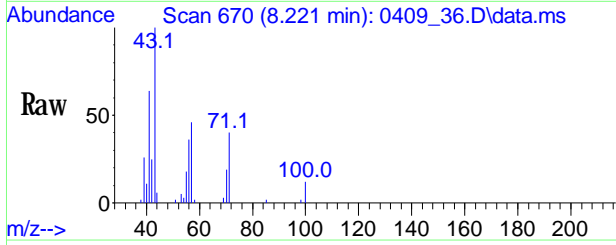
Tgt Ion	Ratio	Resp	Upper
130	100	42461	
132	103.9	78.0	117.0
95	112.6	73.0	109.4#





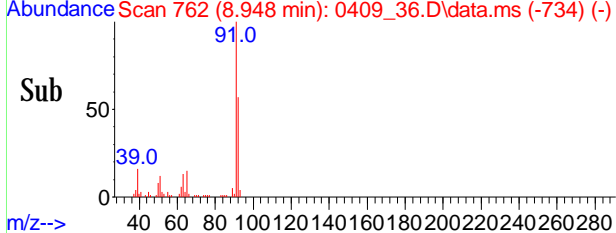
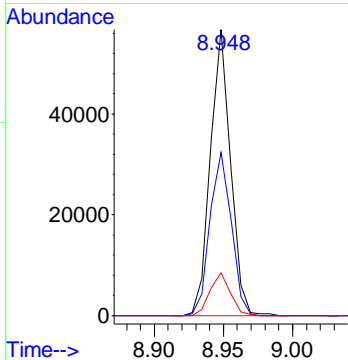
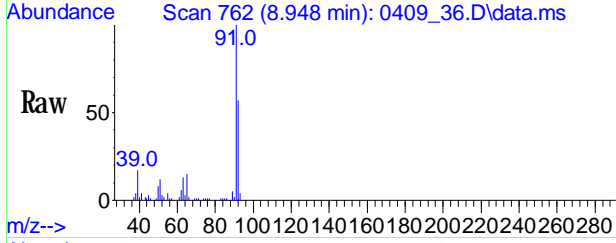
#43
 Heptane
 Conc: 8S 0.520 ppby
 RT: 8.221 min Scan# 670
 Delta R.T. 0.000 min
 Lab File: 0409_36.D
 Acq: 10 Apr 2019 04:33 am

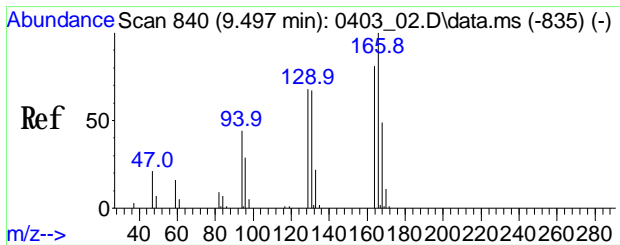
Tgt Ion	Ratio	Resp	Lower	Upper
43	100	9716		
57	47.8	49.7	74.5#	
71	38.4	62.2	93.2#	
71	38.4	62.2	93.2#	



#48
 Toluene
 Conc: 8S 1.886 ppby
 RT: 8.948 min Scan# 762
 Delta R.T. 0.000 min
 Lab File: 0409_36.D
 Acq: 10 Apr 2019 04:33 am

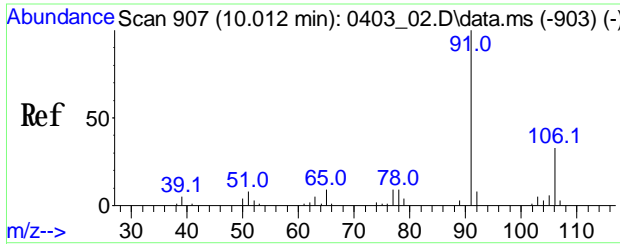
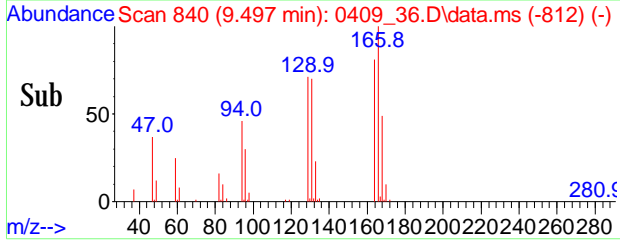
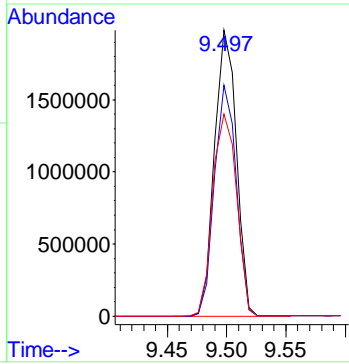
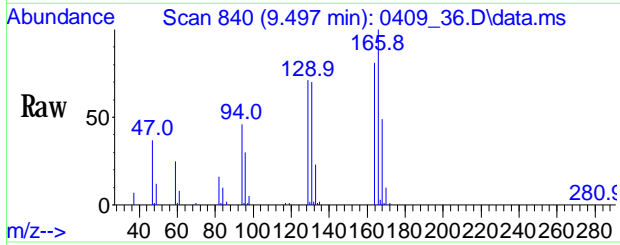
Tgt Ion	Ratio	Resp	Lower	Upper
91	100	57311		
92	60.1	47.7	71.5	
65	14.9	9.3	13.9#	





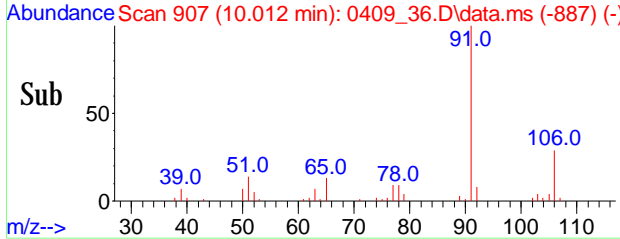
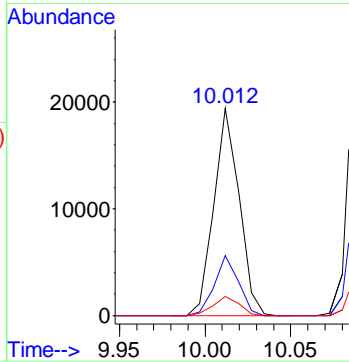
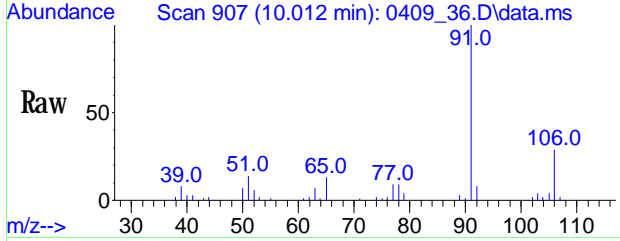
#52
Tetrachloroethene
 Conc: 8S 170.357 ppbv
 RT: 9.497 min Scan# 840
 Delta R.T. 0.000 min
 Lab File: 0409_36.D
 Acq: 10 Apr 2019 04:33 am

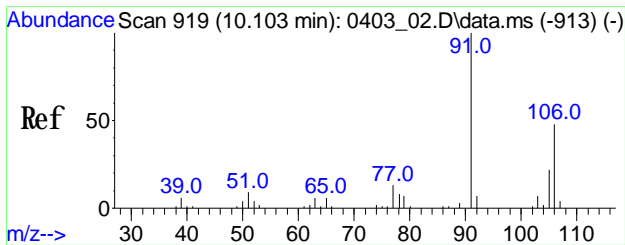
Tgt Ion	Ratio	Resp	Lower	Upper
166	100	2507576		
164	80.4	62.2		93.2
129	77.0	54.9		82.3



#56
Ethylbenzene
 Conc: 8S 0.472 ppbv
 RT: 10.012 min Scan# 907
 Delta R.T. 0.000 min
 Lab File: 0409_36.D
 Acq: 10 Apr 2019 04:33 am

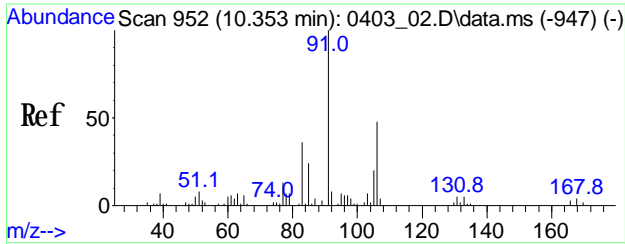
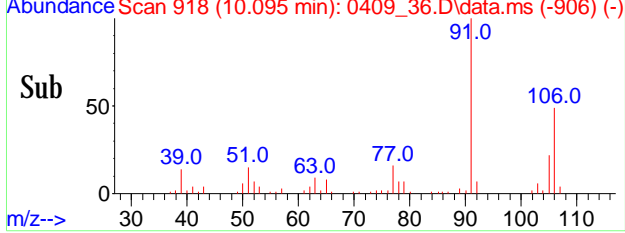
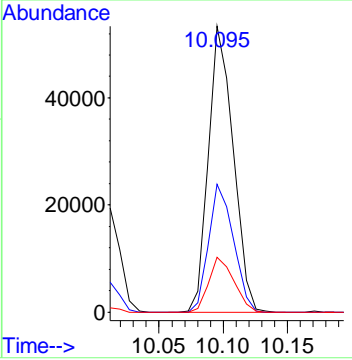
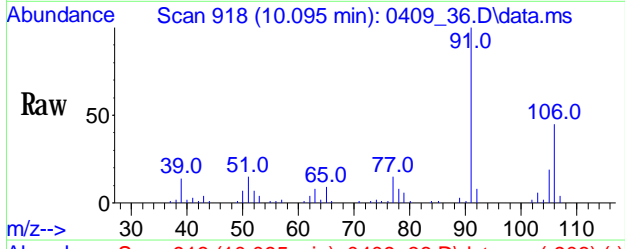
Tgt Ion	Ratio	Resp	Lower	Upper
91	100	19919		
106	27.3	12.6		52.6
77	9.5	0.0		29.1





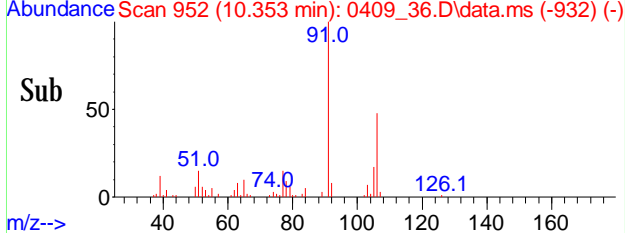
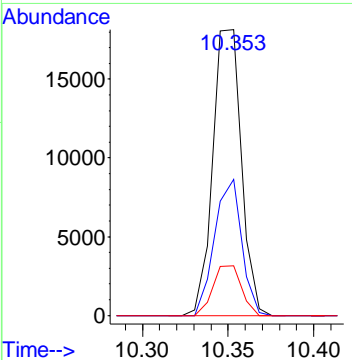
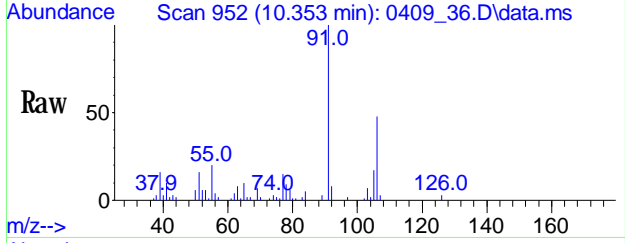
#57
 m p-Xylene
 Conc: 8S 2.232 ppbv
 RT: 10.095 min Scan# 918
 Delta R.T. -0.008 min
 Lab File: 0409_36.D
 Acq: 10 Apr 2019 04:33 am

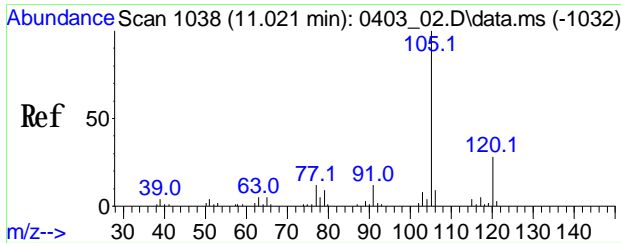
Tgt Ion	Ratio	Resp	Lower	Upper
91	100	71894		
106	44.7	40.9	61.3	
105	19.5	17.8	26.8	



#61
 o-Xylene
 Conc: 8S 0.624 ppbv
 RT: 10.353 min Scan# 952
 Delta R.T. 0.000 min
 Lab File: 0409_36.D
 Acq: 10 Apr 2019 04:33 am

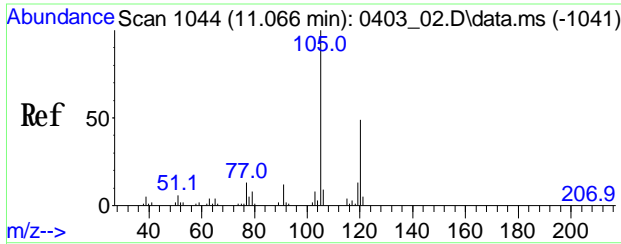
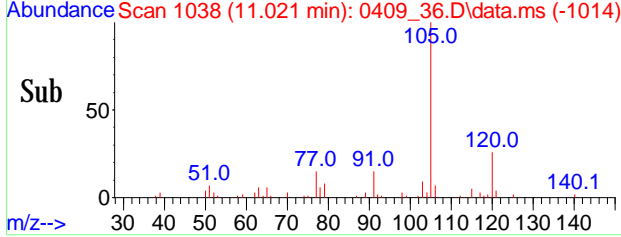
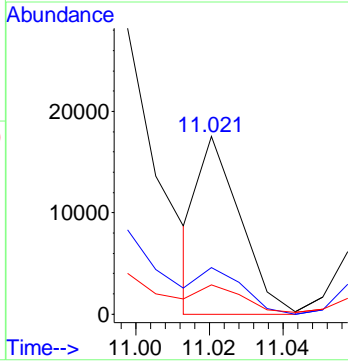
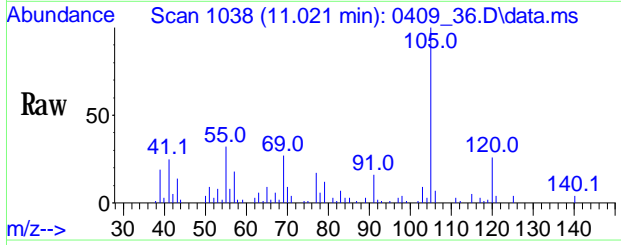
Tgt Ion	Ratio	Resp	Lower	Upper
91	100	21028		
106	45.1	38.3	57.5	
105	17.4	15.2	22.8	





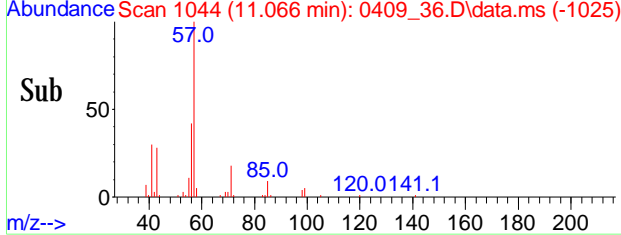
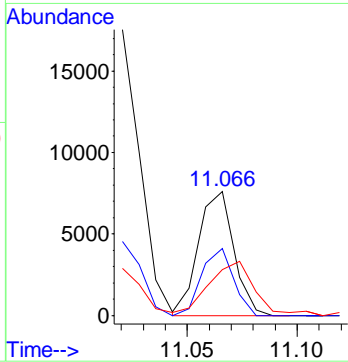
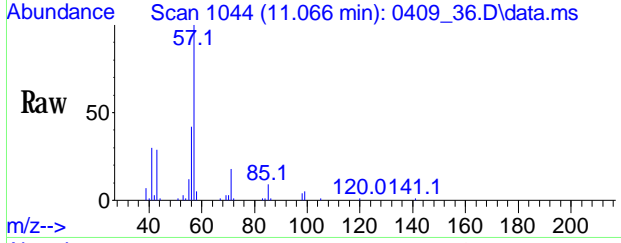
#66
 4-Ethyltoluene
 Conc: 8S 0.306 ppby
 RT: 11.021 min Scan# 1038
 Delta R.T. 0.000 min
 Lab File: 0409_36.D
 Acq: 10 Apr 2019 04:33 am

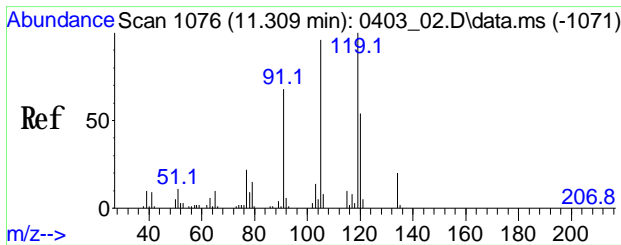
Tgt Ion	Ratio	Resp	Lower	Upper
105	100	13673		
120	98.6	25.0		37.4#
77	32.4	9.4		14.0#



#67
 1,3,5-Trimethylbenzene
 Conc: 8S 0.221 ppby
 RT: 11.066 min Scan# 1044
 Delta R.T. 0.000 min
 Lab File: 0409_36.D
 Acq: 10 Apr 2019 04:33 am

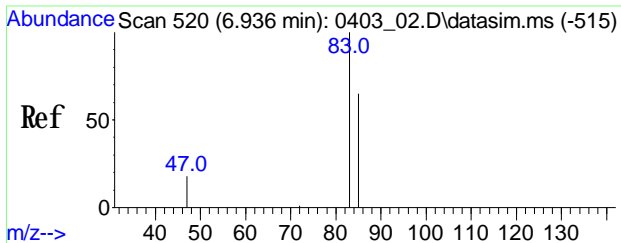
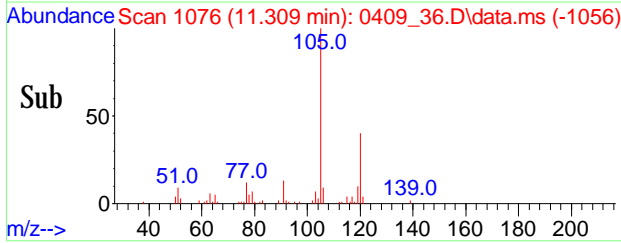
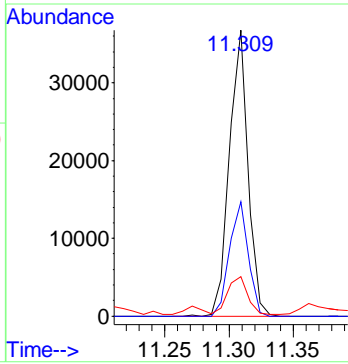
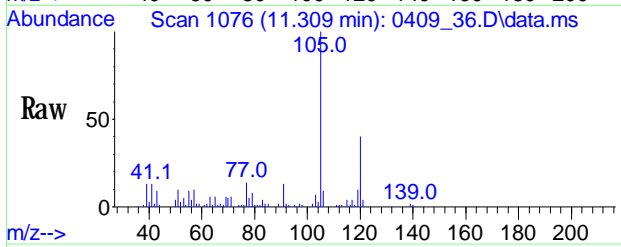
Tgt Ion	Ratio	Resp	Lower	Upper
105	100	8498		
120	48.6	39.7		59.5
77	56.2	10.2		15.4#





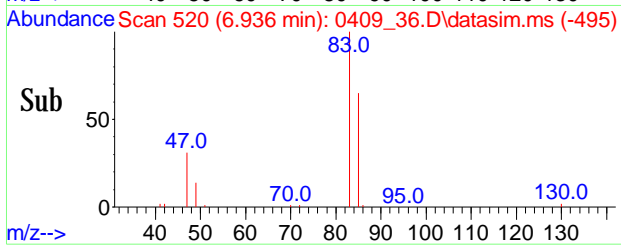
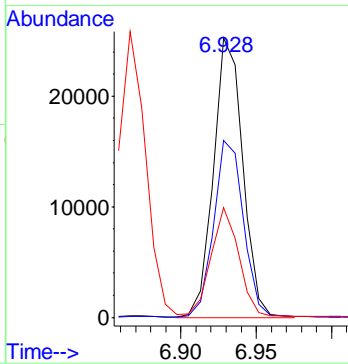
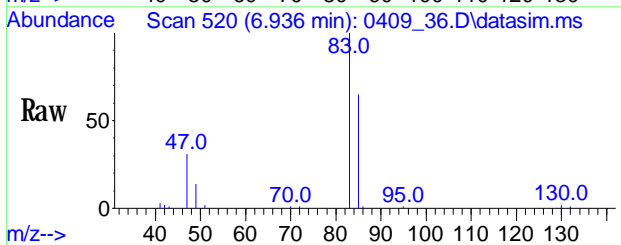
#68
 1,2,4-Trimethylbenzene
 Conc: 8S 0.992 ppby
 RT: 11.309 min Scan# 1076
 Delta R.T. 0.000 min
 Lab File: 0409_36.D
 Acq: 10 Apr 2019 04:33 am

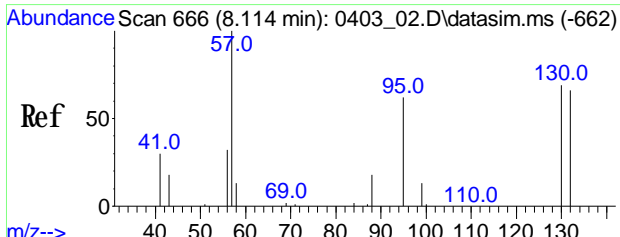
Tgt Ion	Ratio	Resp	Lower	Upper
105	100	37298		
120	40.3	44.5	66.7#	
77	14.1	19.7	29.5#	



#93
 Chloroform(sim)
 Conc: 8S 0.950 ppby
 RT: 6.933 min Scan# 520
 Delta R.T. -0.008 min
 Lab File: 0409_36.D
 Acq: 10 Apr 2019 04:33 am

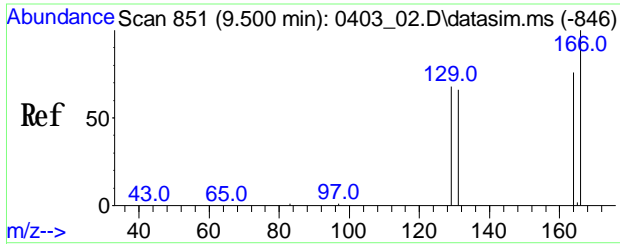
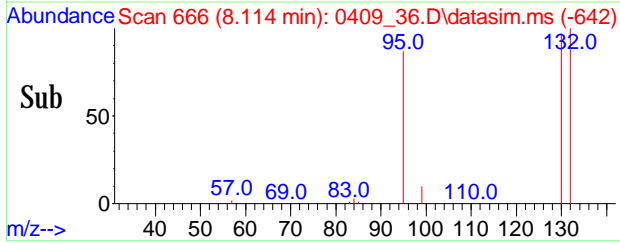
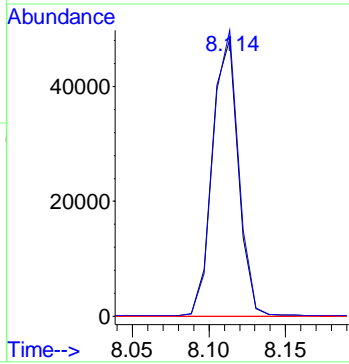
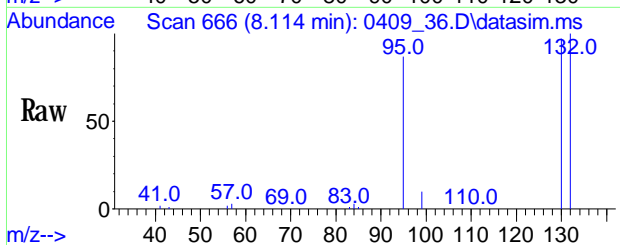
Tgt Ion	Ratio	Resp	Lower	Upper
83	100	27555		
85	64.3	52.7	79.1	
47	40.0	16.6	25.0#	





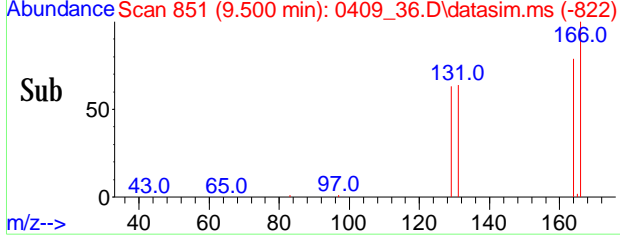
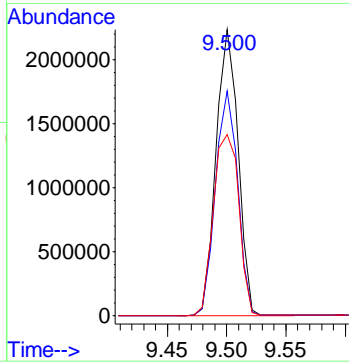
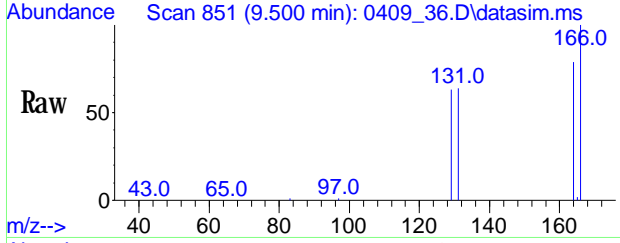
#97
 Trichloroethene(sim)
 Conc: 8S 2.777 ppbv
 RT: 8.111 min Scan# 666
 Delta R.T. 0.000 min
 Lab File: 0409_36.D
 Acq: 10 Apr 2019 04:33 am

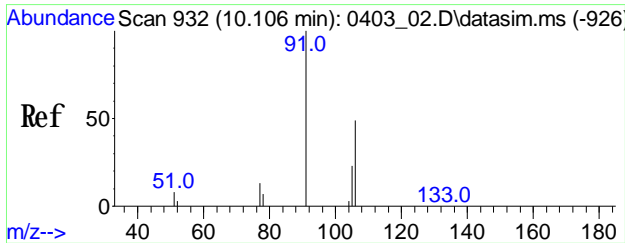
Tgt Ion	Ratio	Resp	Lower	Upper
130	100	42461		
132	103.9	78.0		117.0
97	71.2	47.2		70.8#



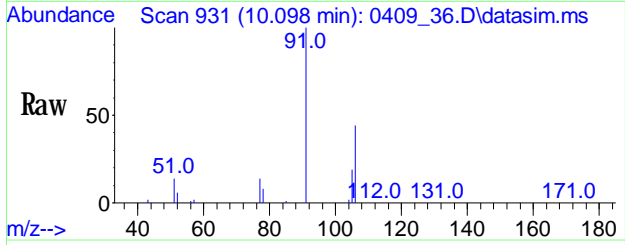
#103
 Tetrachloroethene(sim)
 Conc: 8S 150.438 ppbv
 RT: 9.497 min Scan# 851
 Delta R.T. 0.000 min
 Lab File: 0409_36.D
 Acq: 10 Apr 2019 04:33 am

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	2507576		
164	80.4	57.7		97.7
129	77.0	48.6		88.6



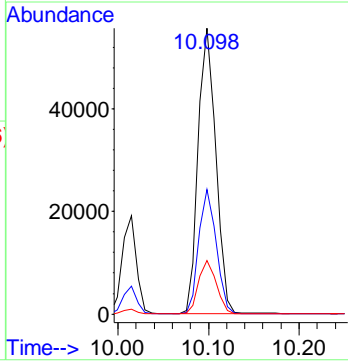
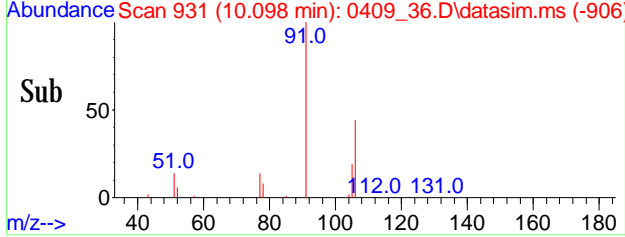


#106
 m p-Xylene(sim)
 Conc: 8S 2.206 ppbv
 RT: 10.098 min Scan# 931
 Delta R.T. -0.008 min
 Lab File: 0409_36.D
 Acq: 10 Apr 2019 04:33 am



Tgt Ion: 91 Resp: 75327

Ion	Ratio	Lower	Upper
91	100		
106	43.2	44.3	54.1#
105	18.9	17.7	26.5



1
AIR ANALYSIS DATA SHEET

CLIENT ID

SS-10 75X

Client: WALDENE Lab: Phoenix Env. Labs

SDG No.: GCC90508 Lab Sample ID: CC90523 75X

Canister: 23327 Lab File ID: 0409_51.D

Instrument: CHEM20 Column: RTX-1 60M Date Received: 04/08/19

Purge Volume 200 (cc) Date Analyzed: 04/10/19

Matrix: AIR Dilution Factor: 75

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
64-17-5	Ethanol	39.8	U	39.8	39.8	
67-64-1	Acetone	87.5	X	31.6	31.6	
75-15-0	Carbon Disulfide	24.1	U	24.1	24.1	
78-93-3	Methyl Ethyl Ketone	25.4	U	25.4	25.4	
110-54-3	Hexane	21.3	U	21.3	21.3	
71-43-2	Benzene	23.5	U	23.5	23.5	
142-82-5	Heptane	18.3	U	18.3	18.3	
108-88-3	Toluene	19.9	U	19.9	19.9	
127-18-4	Tetrachloroethene	1050	D	2.77	2.77	r
100-41-4	Ethylbenzene	17.3	U	17.3	17.3	
95-47-6	o-Xylene	17.3	U	17.3	17.3	
622-96-8	4-Ethyltoluene	15.3	U	15.3	15.3	
108-67-8	1,3,5-Trimethylbenzene	15.3	U	15.3	15.3	
95-63-6	1,2,4-Trimethylbenzene	15.3	U	15.3	15.3	
67-66-3	Chloroform(sim)	15.4	U	15.4	15.4	
79-01-6	Trichloroethene(sim)	11.7	X	2.79	2.79	
179601-23-1	m,p-Xylene(sim)	17.3	U	17.3	17.3	

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.

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2019\CHEM20\04APR\09\
 Data File : 0409_51.D
 Acq On : 10 Apr 2019 02:35 pm
 Operator : CORTEX\ms
 Client ID : SS-10 75X
 Lab ID : CC90523 75X
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 10 16:00:36 2019
 Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_0409.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Wed Apr 10 09:42:38 2019
 Response via : Initial Calibration

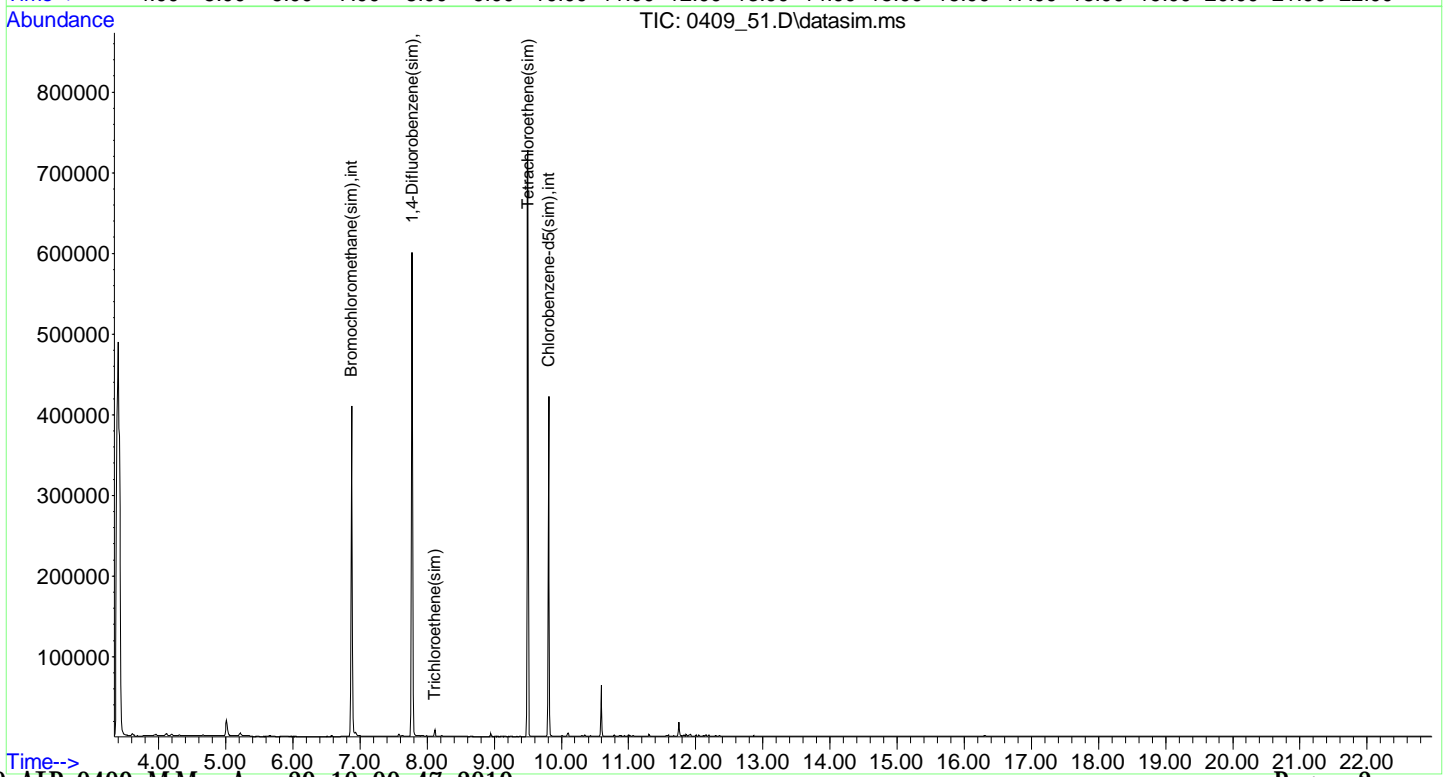
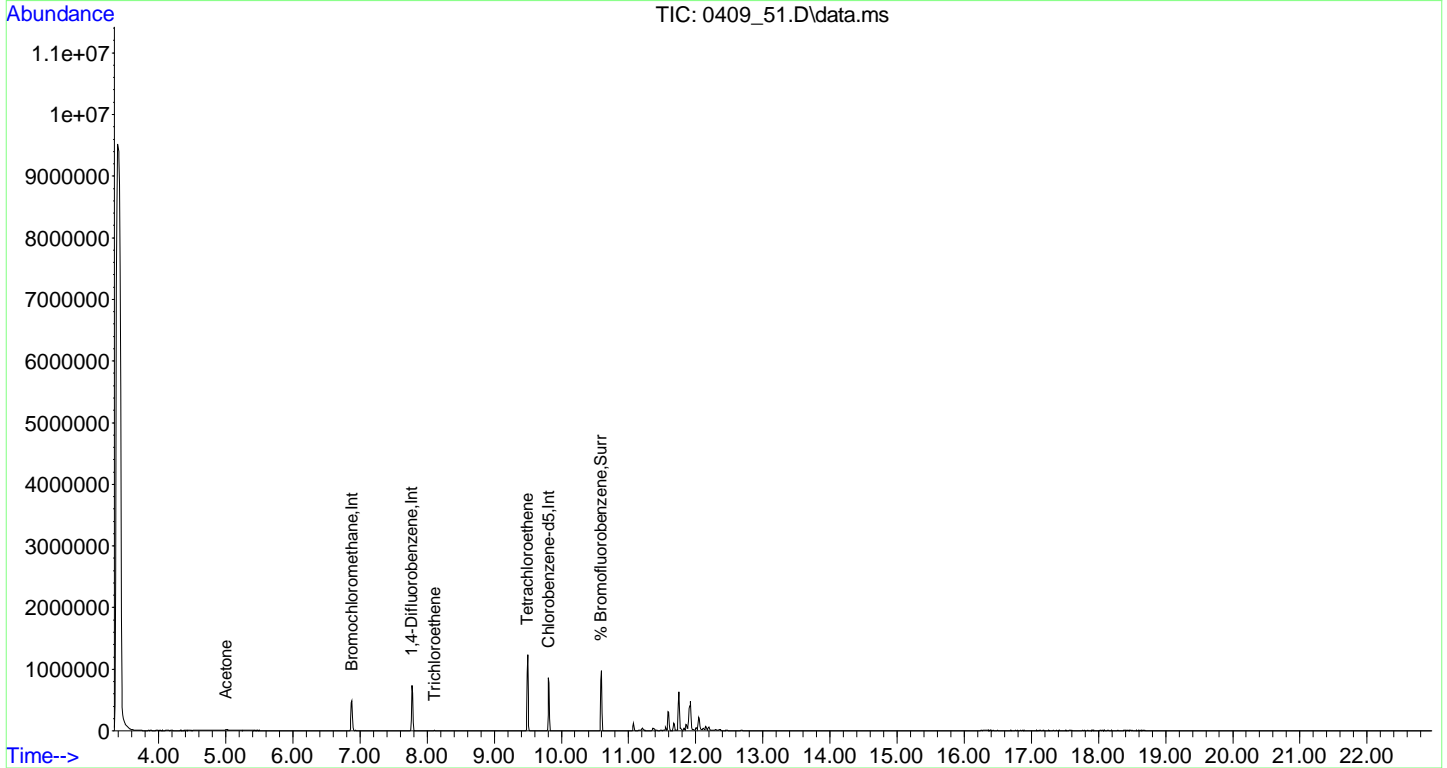
Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
Internal Standards						
1) Bromchloromethane	6.879	130	87556	10.000	ng	0.00
36) 1,4-Difluorobenzene	7.772	114	301959	10.000	ng	0.00
53) Chlorobenzene-d5	9.807	82	158326	10.000	ng	# 0.00
80) Bromchloromethane(sim)	6.874	130	124556	10.000	ng	# 0.00
94) 1,4-Difluorobenzene(sim)	7.775	114	353647	10.000	ng	0.00
104) Chlorobenzene-d5(sim)	9.810	82	158517	10.000	ng	# 0.00
System Monitoring Compounds						
62) % Bromfluorobenzene	10.596	95	206996	9.973	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	99.70%
Target Compounds						
12) Acetone	5.009	43	22850	1.167	ppbv#	84
39) Trichloroethene	8.111	130	1986	0.175	ppbv	98
52) Tetrachloroethene	9.497	166	167467	13.967	ppbv#	88
97) Trichloroethene(sim)	8.111	130	1986	0.156	ppbv	96
103) Tetrachloroethene(sim)	9.497	166	167467	12.056	ppbv	88

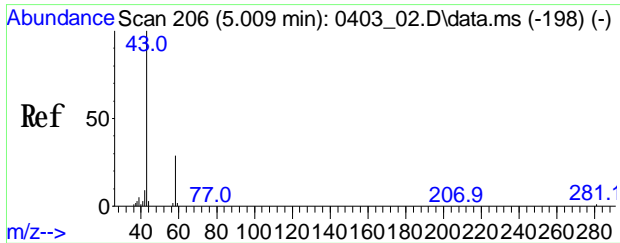
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2019\CHEM20\04APR\09\
Data File : 0409_51.D
Acq On : 10 Apr 2019 02:35 pm
Operator : CORTEX\nms
Client ID : SS-10_75X
Lab ID : CC90523_75X
ALS Vial : 1 Sample Multiplier: 1

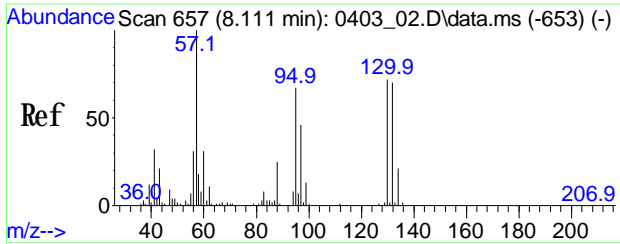
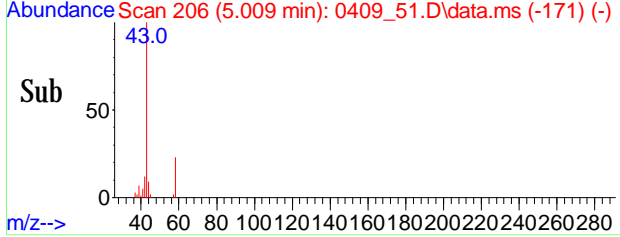
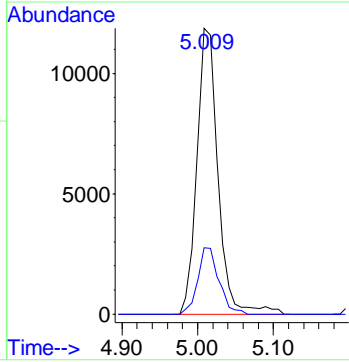
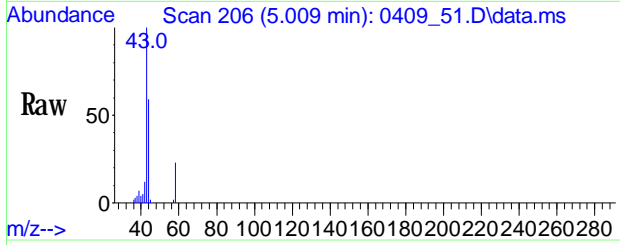
Quant Time: Apr 10 16:00:36 2019
Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_0409.M
Quant Title : VOA Standards for 5 point calibration
Last Update : Wed Apr 10 09:42:38 2019
Response via : Initial Calibration





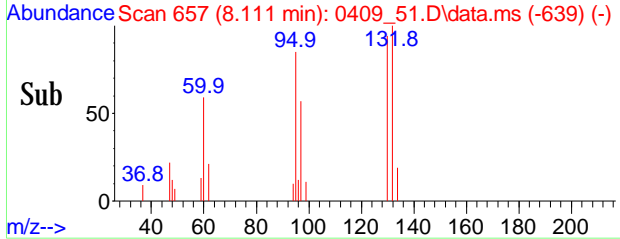
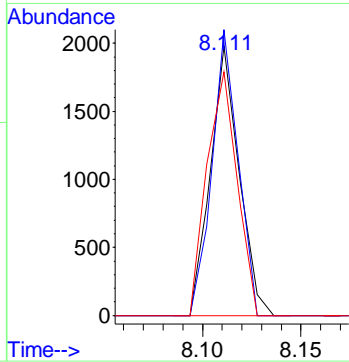
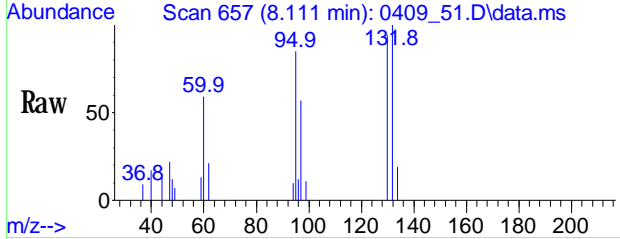
#12
 Acetone
 Conc: 8S 1.167 ppby
 RT: 5.009 min Scan# 206
 Delta R.T. -0.016 min
 Lab File: 0409_51.D
 Acq: 10 Apr 2019 02:35 pm

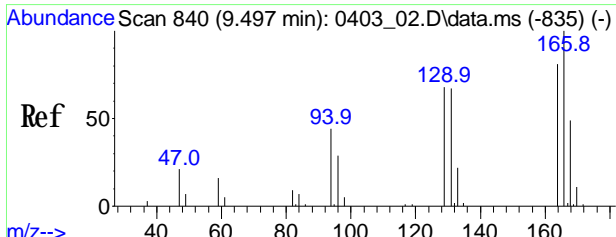
Tgt Ion	Ratio	Resp	Lower	Upper
43	100	22850		
58	23.2	25.9		38.9#



#39
 Trichloroethene
 Conc: 8S 0.175 ppby
 RT: 8.111 min Scan# 657
 Delta R.T. -0.000 min
 Lab File: 0409_51.D
 Acq: 10 Apr 2019 02:35 pm

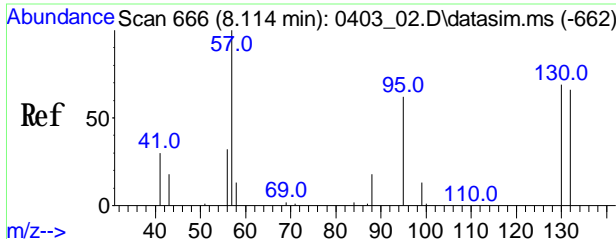
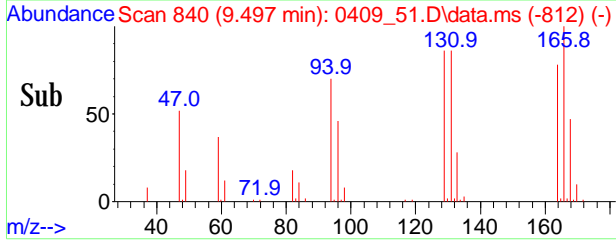
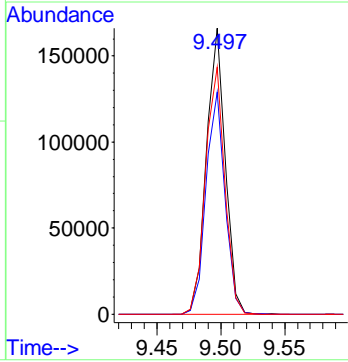
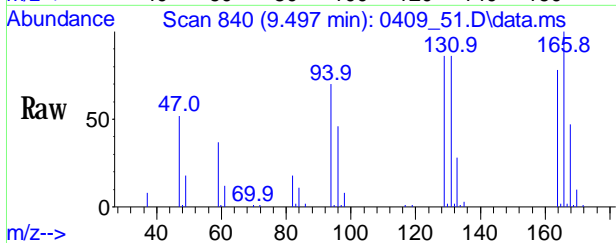
Tgt Ion	Ratio	Resp	Lower	Upper
130	100	1986		
132	96.2	78.0		117.0
95	94.7	73.0		109.4





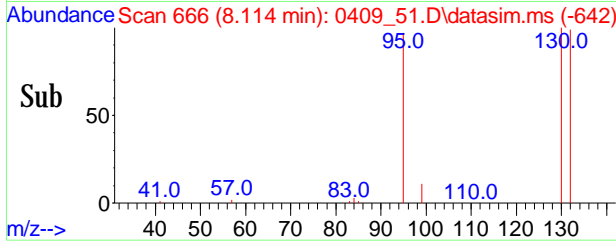
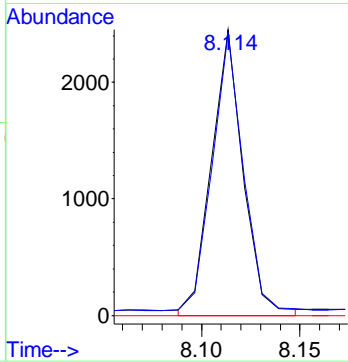
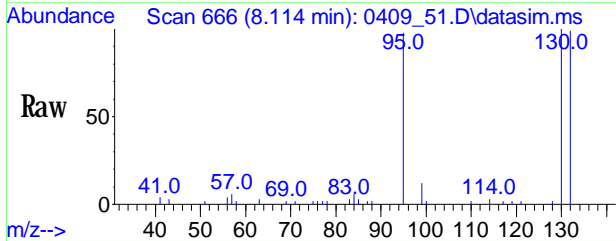
#52
 Tetrachloroethene
 Conc: 8S 13.967 ppbv
 RT: 9.497 min Scan# 840
 Delta R.T. 0.000 min
 Lab File: 0409_51.D
 Acq: 10 Apr 2019 02:35 pm

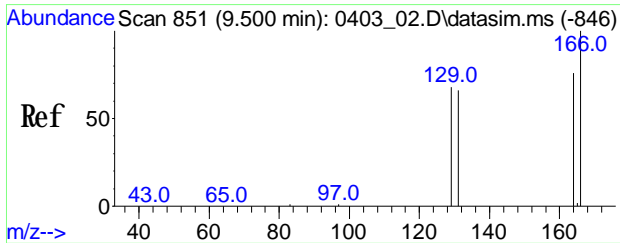
Tgt Ion	Ratio	Resp	Lower	Upper
166	100	167467		
164	78.1	62.2	93.2	
129	88.5	54.9	82.3#	



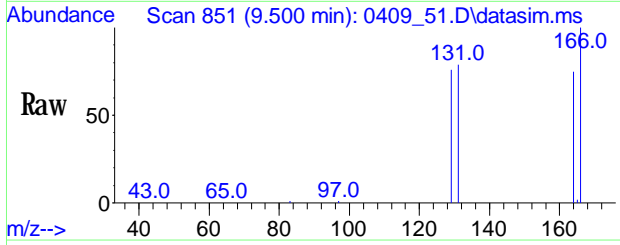
#97
 Trichloroethene(sim)
 Conc: 8S 0.156 ppbv
 RT: 8.111 min Scan# 666
 Delta R.T. -0.000 min
 Lab File: 0409_51.D
 Acq: 10 Apr 2019 02:35 pm

Tgt Ion	Ratio	Resp	Lower	Upper
130	100	1986		
132	96.2	78.0	117.0	
97	65.1	47.2	70.8	

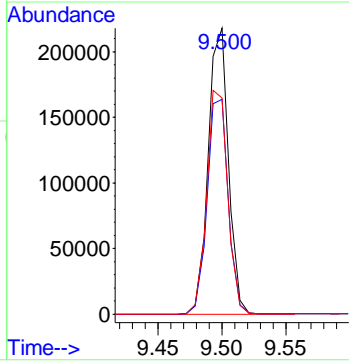
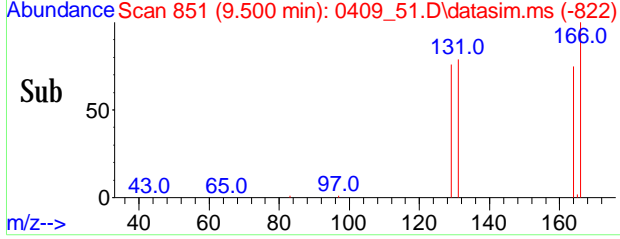




#103
 Tetrachloroethene (sim)
 Conc: 8S 12.056 ppbv
 RT: 9.497 min Scan# 851
 Delta R.T. 0.000 min
 Lab File: 0409_51.D
 Acq: 10 Apr 2019 02:35 pm



Tgt Ion	Ratio	Resp	Upper
166	100	167467	
164	78.1	57.7	97.7
129	88.5	48.6	88.6



1
AIR ANALYSIS DATA SHEET

CLIENT ID

SS-1 5X

Client:	WALDENE	Lab:	Phoenix Env. Labs
SDG No.:	GCC90508	Lab Sample ID:	CC90524 5X
Canister:	28557	Lab File ID:	0409_37.D
Instrument:	CHEM20	Column:	RTX-1 60M
Purge Volume	200 (cc)	Date Received:	04/08/19
Matrix:	AIR	Date Analyzed:	04/10/19
		Dilution Factor:	5

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	2.91	U	2.91	2.91	r
75-71-8	Dichlorodifluoromethane	1.01	U	1.01	1.01	r
74-87-3	Chloromethane	2.42	U	2.42	2.42	r
106-99-0	1,3-Butadiene	2.26	U	2.26	2.26	r
75-00-3	Chloroethane	1.90	U	1.90	1.90	r
64-17-5	Ethanol	2.71	S	2.66	2.66	r
67-64-1	Acetone	3.58	S	2.11	2.11	r
67-63-0	Isopropylalcohol	2.04	U	2.04	2.04	r
107-13-1	Acrylonitrile	2.31	U	2.31	2.31	r
75-09-2	Methylene Chloride	4.32	U	4.32	4.32	r
75-15-0	Carbon Disulfide	1.61	U	1.61	1.61	r
156-60-5	Trans-1,2-Dichloroethene	4.31		1.26	1.26	r
1634-04-4	Methyl tert-butyl ether(MTBE)	1.39	U	1.39	1.39	r
78-93-3	Methyl Ethyl Ketone	1.70	U	1.70	1.70	r
156-59-2	Cis-1,2-Dichloroethene	85.9		0.252	0.252	r
110-54-3	Hexane	1.42	U	1.42	1.42	r
67-66-3	Chloroform	1.60		1.02	1.02	r
141-78-6	Ethyl acetate	1.39	U	1.39	1.39	r
109-99-9	Tetrahydrofuran	1.70	U	1.70	1.70	r
71-43-2	Benzene	1.57	U	1.57	1.57	r
110-82-7	Cyclohexane	1.45	U	1.45	1.45	r
79-01-6	Trichloroethene	49.5		0.186	0.186	r
142-82-5	Heptane	1.22	U	1.22	1.22	r
108-10-1	4-Methyl-2-pentanone(MIBK)	1.22	U	1.22	1.22	r
10061-02-6	trans-1,3-Dichloropropene	1.10	U	1.10	1.10	r
108-88-3	Toluene	2.66		1.33	1.33	r
591-78-6	2-Hexanone(MBK)	1.22	U	1.22	1.22	r
127-18-4	Tetrachloroethene	1560	E	0.184	0.184	
630-20-6	1,1,1,2-Tetrachloroethane	0.729	U	0.729	0.729	r
108-90-7	Chlorobenzene	1.09	U	1.09	1.09	r
100-41-4	Ethylbenzene	1.15	U	1.15	1.15	r
100-42-5	Styrene	1.17	U	1.17	1.17	r
95-47-6	o-Xylene	1.15	U	1.15	1.15	r
98-82-8	Isopropylbenzene	1.02	U	1.02	1.02	r
622-96-8	4-Ethyltoluene	1.02	U	1.02	1.02	r
108-67-8	1,3,5-Trimethylbenzene	1.02	U	1.02	1.02	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

SS-1 5X

Client:	<u>WALDENE</u>	Lab:	<u>Phoenix Env. Labs</u>
SDG No.:	<u>GCC90508</u>	Lab Sample ID:	<u>CC90524 5X</u>
Canister:	<u>28557</u>	Lab File ID:	<u>0409_37.D</u>
Instrument:	<u>CHEM20</u>	Column:	<u>RTX-1 60M</u>
Purge Volume	<u>200</u> (cc)	Date Received:	<u>04/08/19</u>
Matrix:	<u>AIR</u>	Date Analyzed:	<u>04/10/19</u>
		Dilution Factor:	<u>5</u>

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
95-63-6	1,2,4-Trimethylbenzene	1.02	U	1.02	1.02	r
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.716	U	0.716	0.716	r
75-01-4	Vinyl Chloride(sim)	0.391	U	0.391	0.391	r
74-83-9	Bromomethane(sim)	1.29	U	1.29	1.29	r
75-69-4	Trichlorofluoromethane(sim)	0.891	U	0.891	0.891	r
107-06-2	1,2-Dichloroethane(sim)	1.24	U	1.24	1.24	r
71-55-6	1,1,1-Trichloroethane(sim)	0.917	U	0.917	0.917	r
56-23-5	Carbon Tetrachloride(sim)	0.159	U	0.159	0.159	r
75-35-4	1,1-Dichloroethene(sim)	0.252	U	0.252	0.252	r
76-13-1	Trichlorotrifluoroethane(sim)	0.653	U	0.653	0.653	r
75-34-3	1,1-Dichloroethane(sim)	1.24	U	1.24	1.24	r
78-87-5	1,2-dichloropropane(sim)	1.08	U	1.08	1.08	r
75-27-4	Bromodichloromethane(sim)	0.747	U	0.747	0.747	r
123-91-1	1,4-Dioxane(sim)	1.39	U	1.39	1.39	r
10061-01-5	cis-1,3-Dichloropropene(sim)	1.10	U	1.10	1.10	r
79-00-5	1,1,2-Trichloroethane(sim)	0.917	U	0.917	0.917	r
124-48-1	Dibromochloromethane(sim)	0.587	U	0.587	0.587	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.651	U	0.651	0.651	r
75-25-2	Bromoform(sim)	0.484	U	0.484	0.484	r
179601-23-1	m,p-Xylene(sim)	1.73		1.15	1.15	r
79-34-5	1,1,1,2-Tetrachloroethane(sim)	0.729	U	0.729	0.729	r
100-44-7	Benzyl chloride(sim)	0.966	U	0.966	0.966	r
541-73-1	1,3-Dichlorobenzene(sim)	0.832	U	0.832	0.832	r
106-46-7	1,4-Dichlorobenzene(sim)	0.832	U	0.832	0.832	r
135-98-8	sec-Butylbenzene(sim)	0.911	U	0.911	0.911	r
99-87-6	4-Isopropyltoluene(sim)	0.911	U	0.911	0.911	r
95-50-1	1,2-Dichlorobenzene(sim)	0.832	U	0.832	0.832	r
104-51-8	n-Butylbenzene(sim)	0.911	U	0.911	0.911	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.674	U	0.674	0.674	r
87-68-3	Hexachlorobutadiene(sim)	0.469	U	0.469	0.469	r

FORM I AIR

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

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2019\CHEM20\04APR\09\
 Data File : 0409_37.D
 Acq On : 10 Apr 2019 05:11 am
 Operator : CORTEX\ms
 Client ID : SS-1 5X
 Lab ID : CC90524 5X
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 10 10:29:42 2019
 Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_0409.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Wed Apr 10 09:07:16 2019
 Response via : Initial Calibration

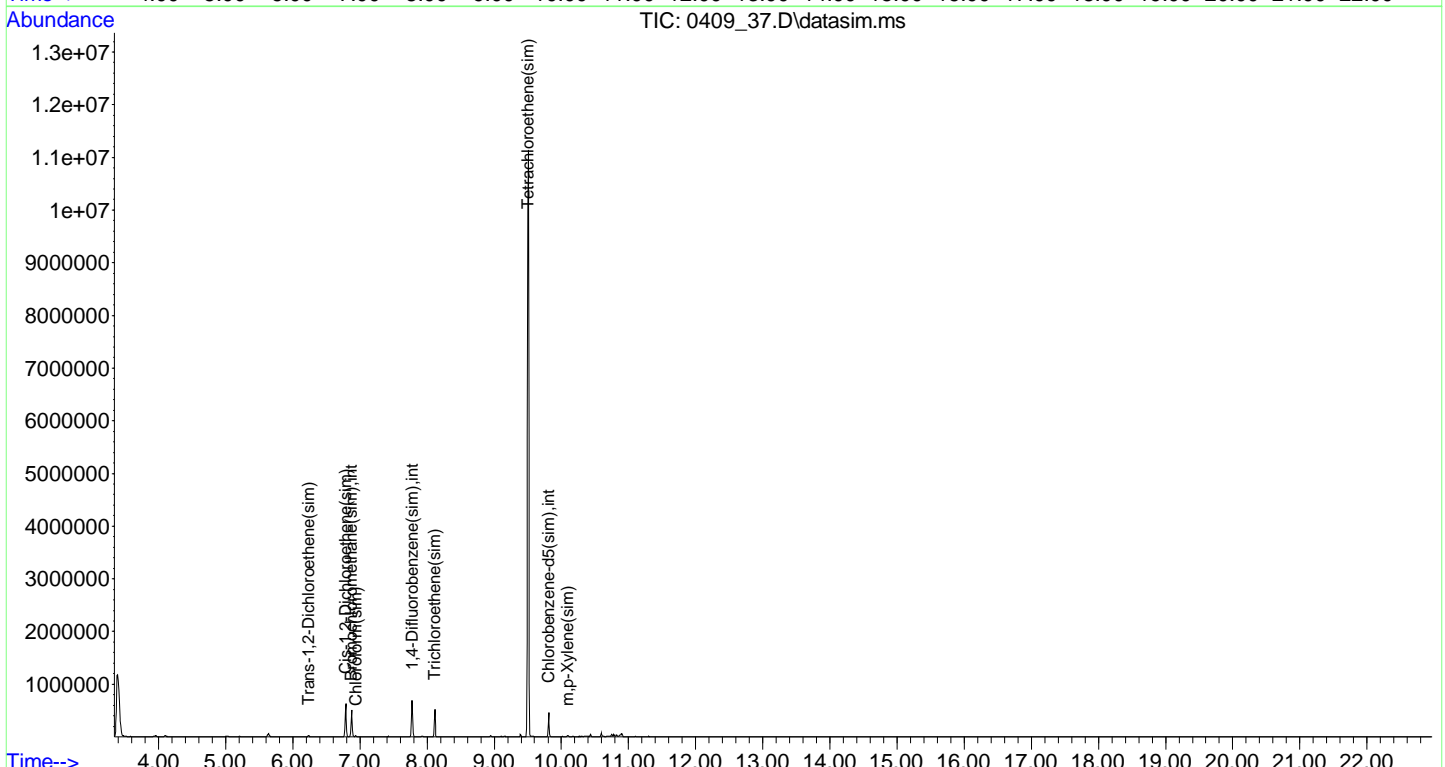
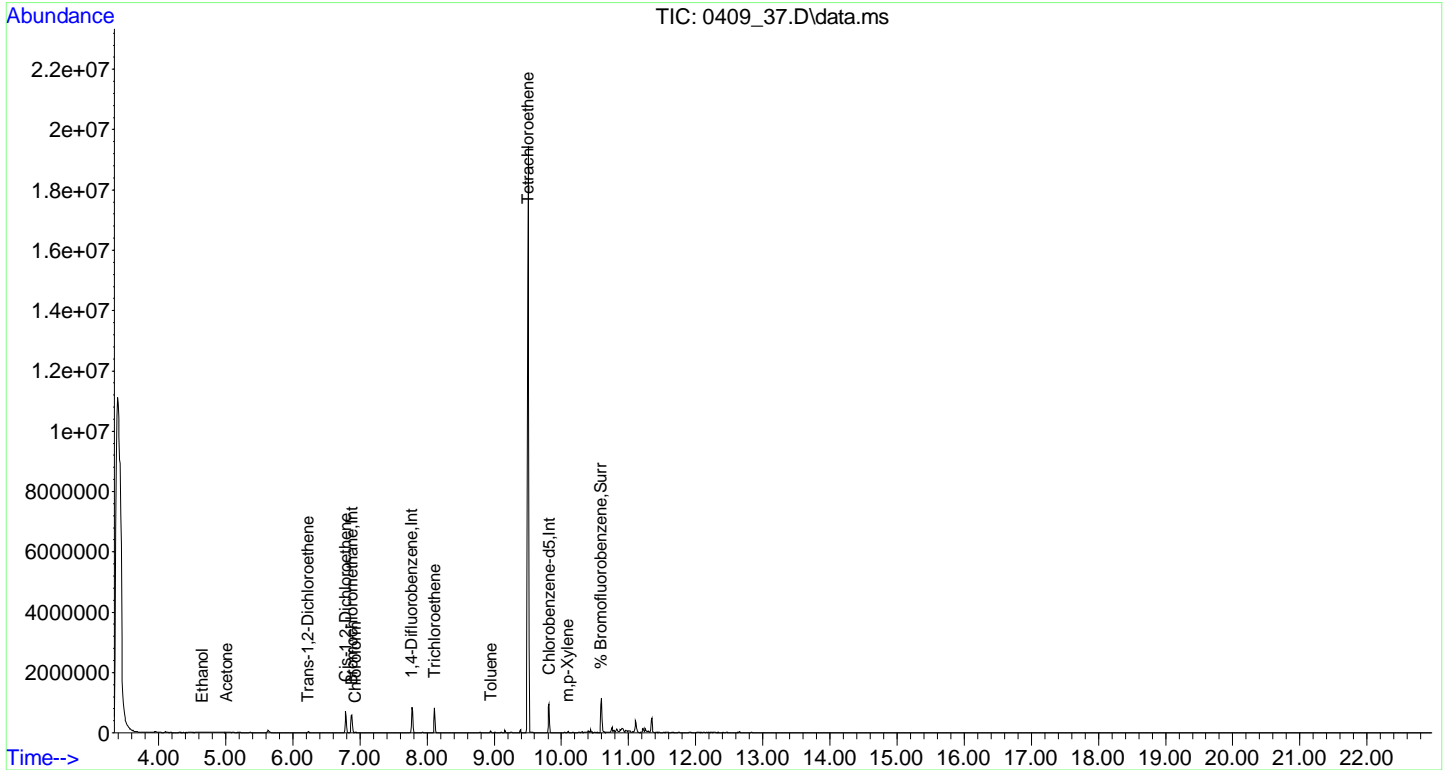
Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
Internal Standards						
1) Bromchloromethane	6.879	130	111696	10.000	ng	0.00
36) 1,4-Difluorobenzene	7.772	114	372099	10.000	ng	0.00
53) Chlorobenzene-d5	9.815	82	178488	10.000	ng	# 0.00
80) Bromchloromethane(sim)	6.874	130	155548	10.000	ng	# 0.00
94) 1,4-Difluorobenzene(sim)	7.775	114	430137	10.000	ng	0.00
104) Chlorobenzene-d5(sim)	9.810	82	180414	10.000	ng	# 0.00
System Monitoring Compounds						
62) % Bromfluorobenzene	10.596	95	244330	10.442	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	104.40%	
Target Compounds						
						Qvalue
11) Ethanol	4.652	45	2605	0.542	ppbv#	88
12) Acetone	5.017	43	17856	0.715	ppbv	97
22) Trans-1,2-Dichloroethene	6.229	61	16453	0.861	ppbv#	81
26) Cis-1,2-Dichloroethene	6.786	61	315075	17.178	ppbv#	70
28) Chloroform	6.933	83	8303	0.320	ppbv#	87
39) Trichloroethene	8.111	130	138371	9.905	ppbv	91
48) Toluene	8.948	91	16190	0.531	ppbv#	96
52) Tetrachloroethene	9.505	166	4613472	312.231	ppbv	95
57) m p-Xylene	10.095	91	10875	0.337	ppbv	91
90] Trans-1,2-Dichloroethe...	6.232	61	19240	0.772	ppbv#	78
92] Cis-1,2-Dichloroethene...	6.789	61	366455	15.602	ppbv#	72
93] Chloroform(sim)	6.933	83	8303	0.282	ppbv#	87
97] Trichloroethene(sim)	8.111	130	138371	8.929	ppbv	94
103] Tetrachloroethene(sim)	9.505	166	4610542	272.888	ppbv	95
106] m p-Xylene(sim)	10.098	91	11489	0.345	ppbv#	93

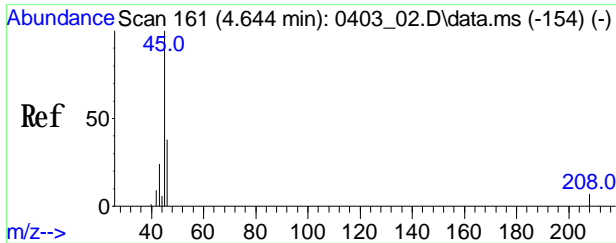
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2019\CHEM20\04APR\09\
Data File : 0409_37.D
Acq On : 10 Apr 2019 05:11 am
Operator : CORTEX\nms
Client ID : SS-1 5X
Lab ID : CC90524 5X
ALS Vial : 1 Sample Multiplier: 1

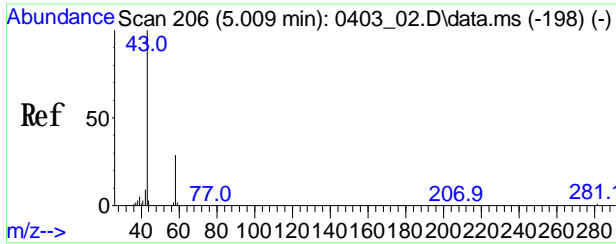
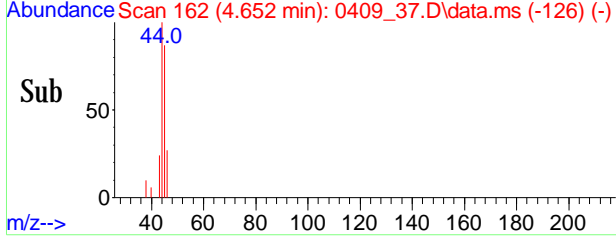
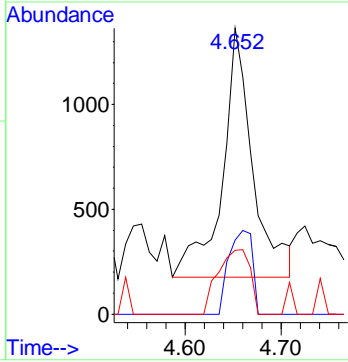
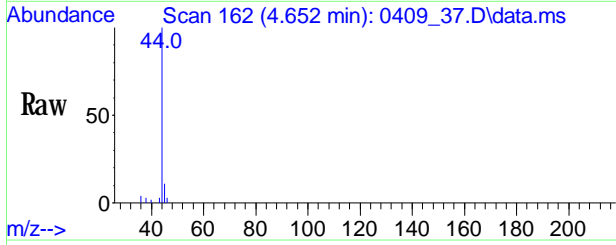
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Quant Title : VOA Standards for 5 point calibration
Last Update : Wed Apr 10 09:07:16 2019
Response via : Initial Calibration





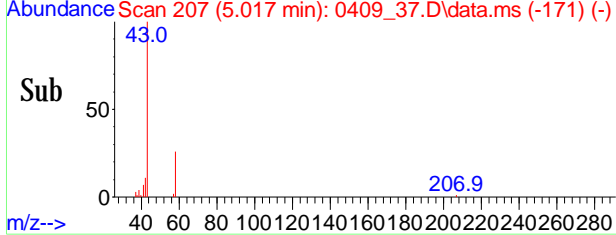
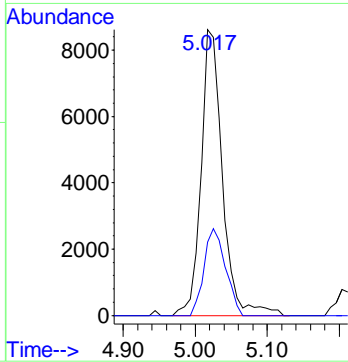
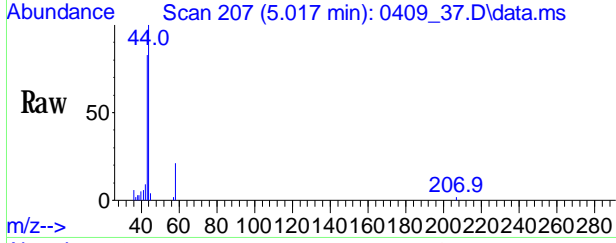
#11
 Ethanol
 Conc: 8S 0.542 ppbv
 RT: 4.652 min Scan# 162
 Delta R.T. -0.008 min
 Lab File: 0409_37.D
 Acq: 10 Apr 2019 05:11 am

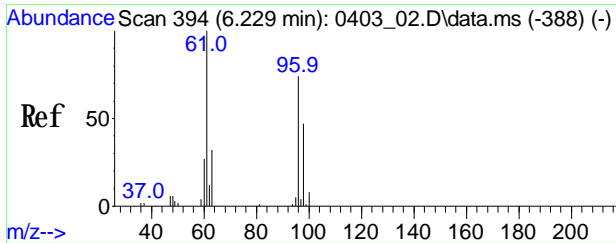
Tgt Ion	Ratio	Resp	Lower	Upper
45	100	2605		
46	26.0	29.9	44.9#	
43	27.3	22.7	34.1	



#12
 Acetone
 Conc: 8S 0.715 ppbv
 RT: 5.017 min Scan# 207
 Delta R.T. -0.008 min
 Lab File: 0409_37.D
 Acq: 10 Apr 2019 05:11 am

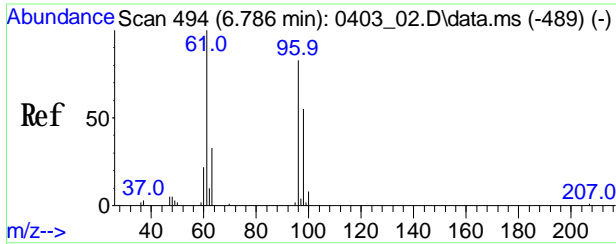
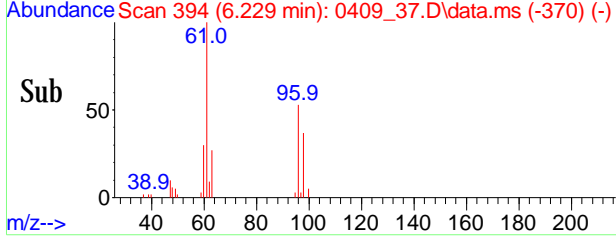
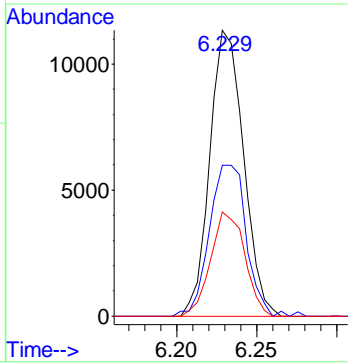
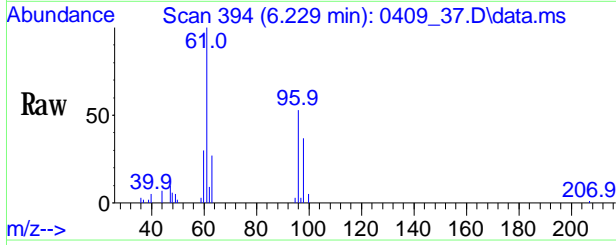
Tgt Ion	Ratio	Resp	Lower	Upper
43	100	17856		
58	30.5	25.9	38.9	





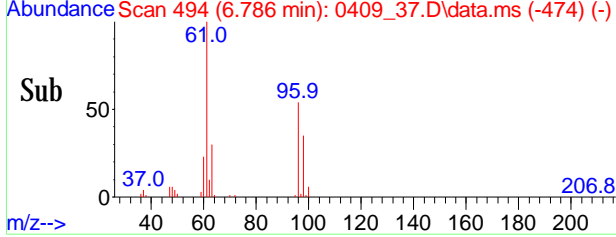
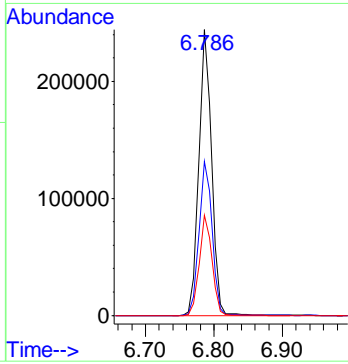
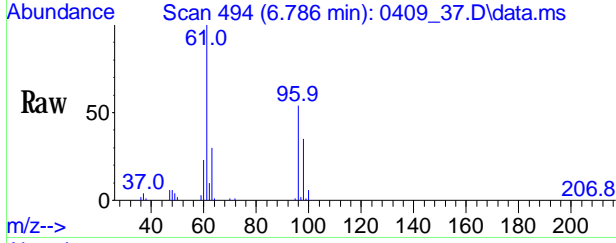
#22
 Trans-1,2-Dichloroethene
 Conc: 8S 0.861 ppbv
 RT: 6.229 min Scan# 394
 Delta R.T. -0.010 min
 Lab File: 0409_37.D
 Acq: 10 Apr 2019 05:11 am

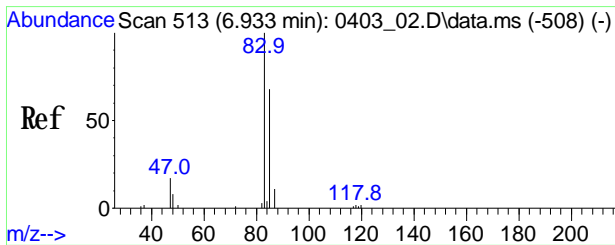
Tgt Ion	Ratio	Resp	Upper
61	100	16453	
96	58.0	60.6	90.8#
98	36.7	38.9	58.3#



#26
 Cis-1,2-Dichloroethene
 Conc: 8S 17.178 ppbv
 RT: 6.786 min Scan# 494
 Delta R.T. -0.008 min
 Lab File: 0409_37.D
 Acq: 10 Apr 2019 05:11 am

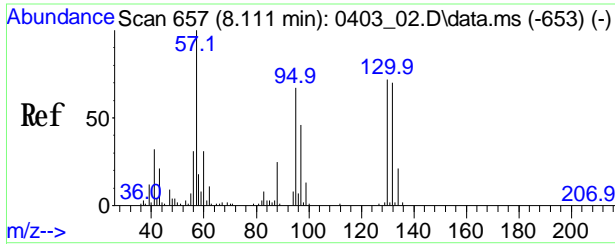
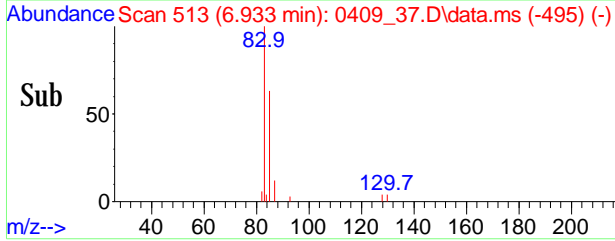
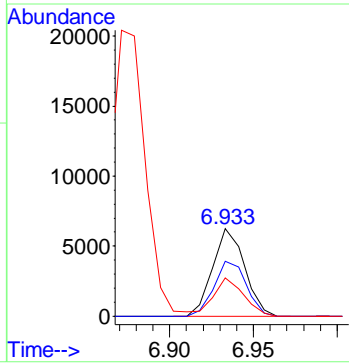
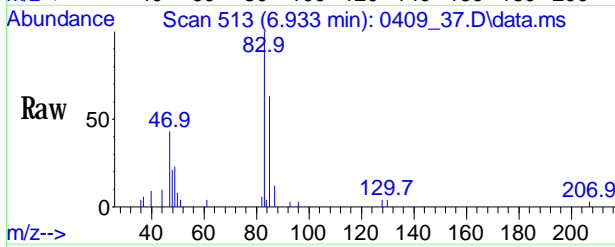
Tgt Ion	Ratio	Resp	Upper
61	100	315075	
96	55.7	67.8	101.8#
98	34.9	43.8	65.6#





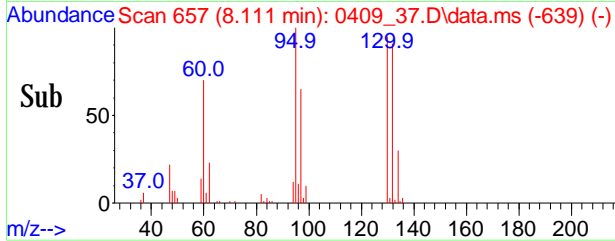
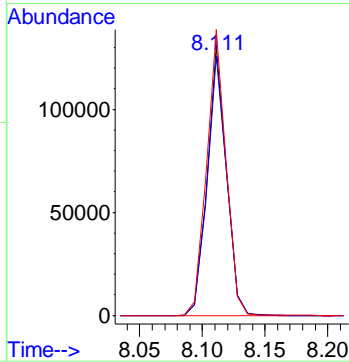
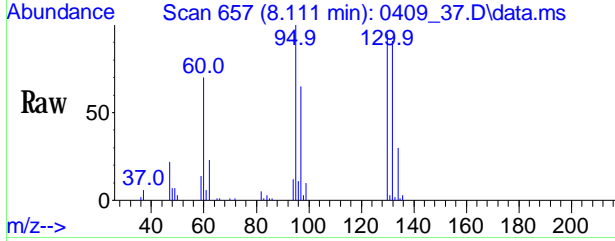
#28
 Chloroform
 Conc: 8S 0.320 ppbv
 RT: 6.933 min Scan# 513
 Delta R.T. -0.008 min
 Lab File: 0409_37.D
 Acq: 10 Apr 2019 05:11 am

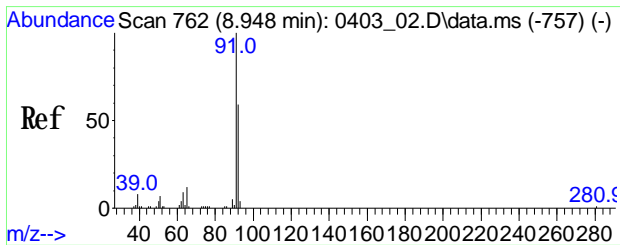
Tgt Ion	Ratio	Resp	Lower	Upper
83	100	8303		
85	63.2	45.9	85.9	
47	41.3	0.8	40.8#	



#39
 Trichloroethene
 Conc: 8S 9.905 ppbv
 RT: 8.111 min Scan# 657
 Delta R.T. -0.000 min
 Lab File: 0409_37.D
 Acq: 10 Apr 2019 05:11 am

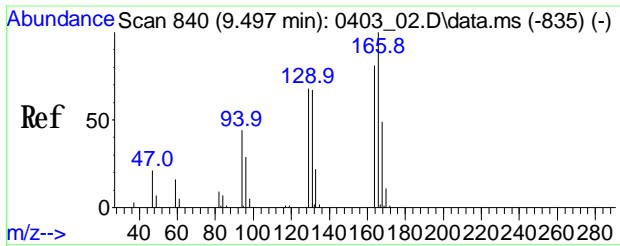
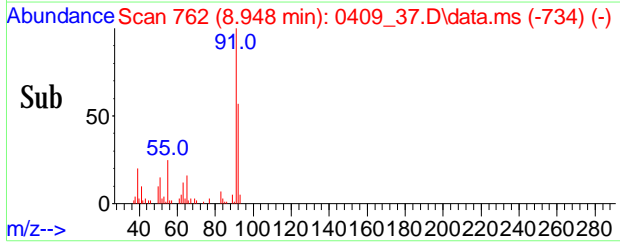
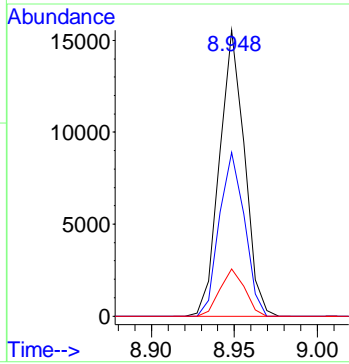
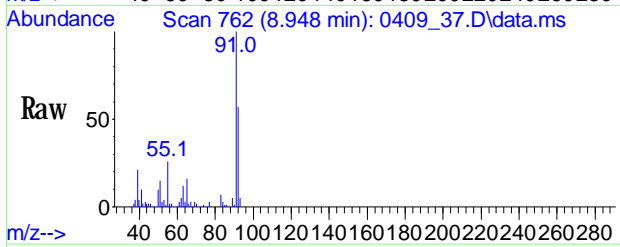
Tgt Ion	Ratio	Resp	Lower	Upper
130	100	138371		
132	97.4	78.0	117.0	
95	107.8	73.0	109.4	





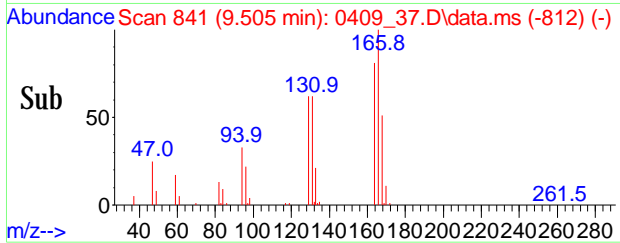
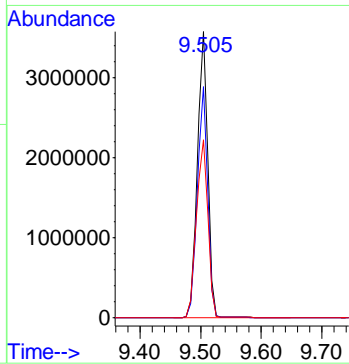
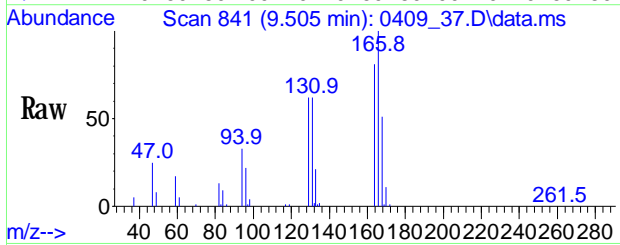
#48
 Toluene
 Conc: 8S 0.531 ppbv
 RT: 8.948 min Scan# 762
 Delta R.T. 0.000 min
 Lab File: 0409_37.D
 Acq: 10 Apr 2019 05:11 am

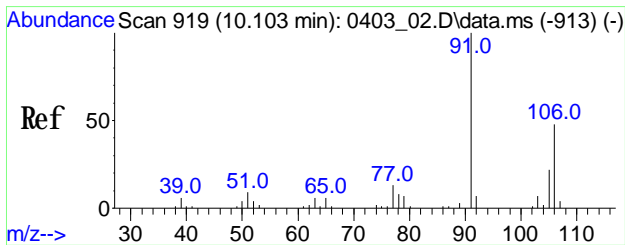
Tgt Ion	Ratio	Resp	Lower	Upper
91	100	16190		
92	57.8	47.7	71.5	
65	16.4	9.3	13.9	



#52
 Tetrachloroethene
 Conc: 8S 312.231 ppbv
 RT: 9.505 min Scan# 841
 Delta R.T. 0.007 min
 Lab File: 0409_37.D
 Acq: 10 Apr 2019 05:11 am

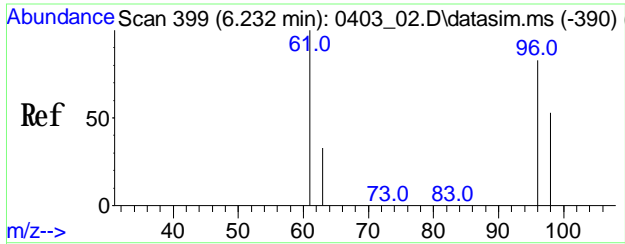
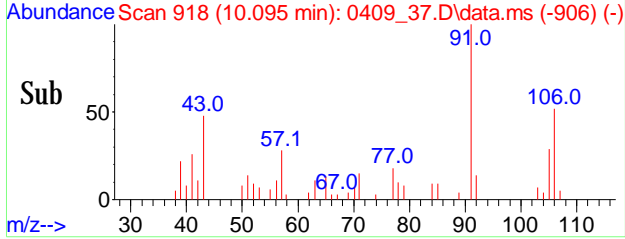
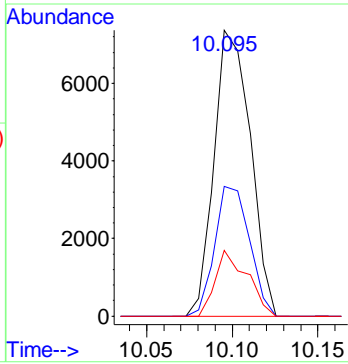
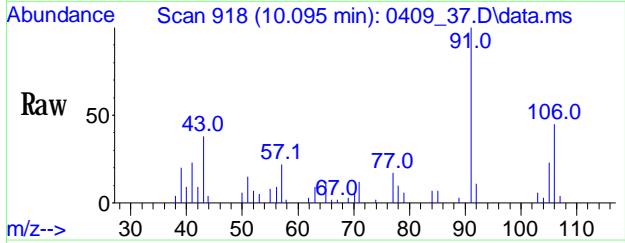
Tgt Ion	Ratio	Resp	Lower	Upper
166	100	4613472		
164	80.5	62.2	93.2	
129	62.8	54.9	82.3	





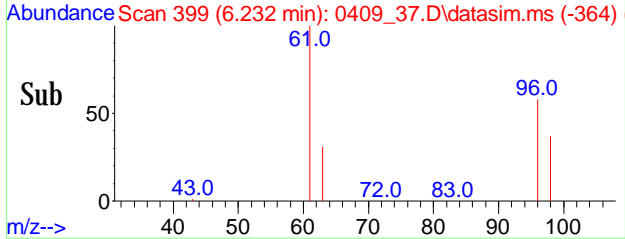
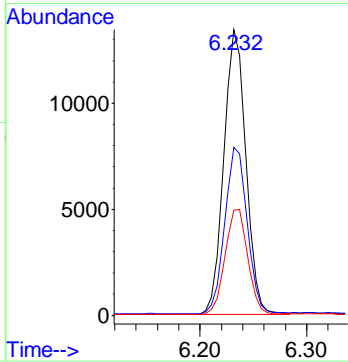
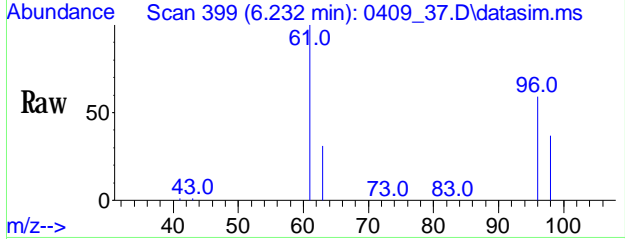
#57
 m p-Xylene
 Conc: 8S 0.337 ppbv
 RT: 10.095 min Scan# 918
 Delta R.T. -0.007 min
 Lab File: 0409_37.D
 Acq: 10 Apr 2019 05:11 am

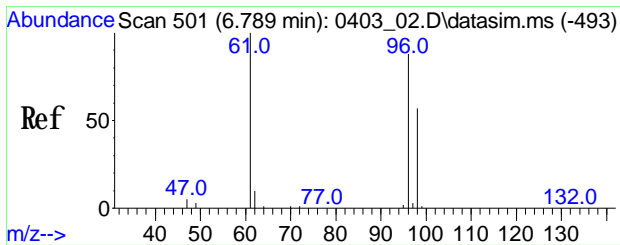
Tgt Ion	Ratio	Resp	Lower	Upper
91	100	10875		
106	43.5	40.9	61.3	
105	20.2	17.8	26.8	



#90
 Trans-1,2-Dichloroethene (sim)
 Conc: 8S 0.772 ppbv
 RT: 6.232 min Scan# 399
 Delta R.T. -0.005 min
 Lab File: 0409_37.D
 Acq: 10 Apr 2019 05:11 am

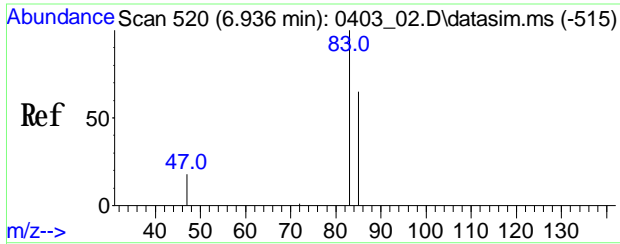
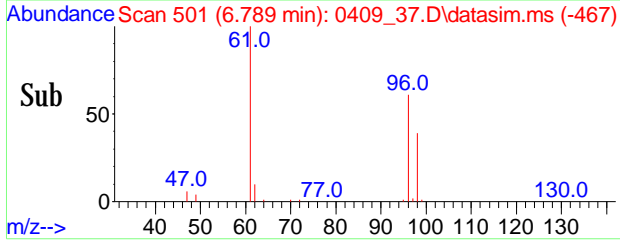
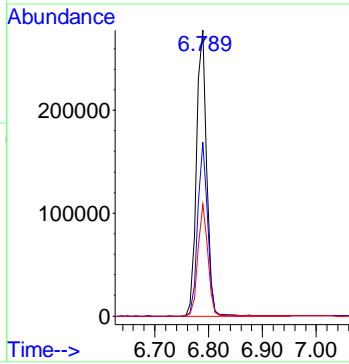
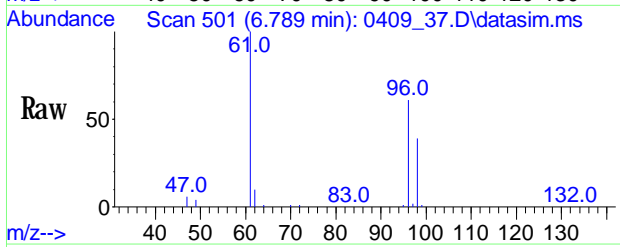
Tgt Ion	Ratio	Resp	Lower	Upper
61	100	19240		
96	59.6	64.6	97.0#	
98	38.0	41.7	62.5#	





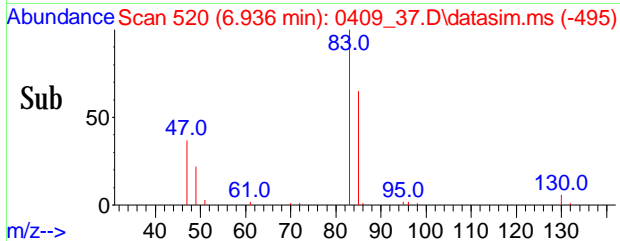
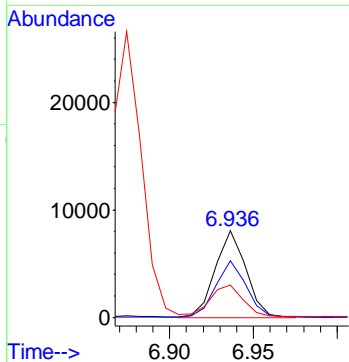
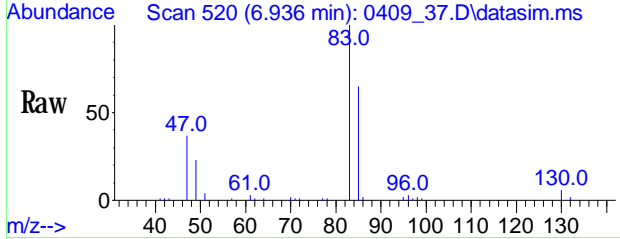
#92
 Cis-1,2-Dichloroethene(sim)
 Conc: 8S 15.602 ppby
 RT: 6.789 min Scan# 501
 Delta R.T. 0.000 min
 Lab File: 0409_37.D
 Acq: 10 Apr 2019 05:11 am

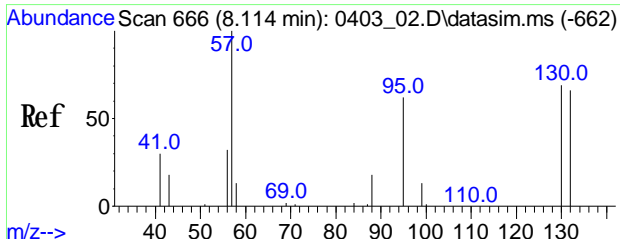
Tgt Ion	Ratio	Resp	Upper
61	100	366455	Lower
96	58.9	69.7	104.5#
98	38.0	45.3	67.9#



#93
 Chloroform(sim)
 Conc: 8S 0.282 ppby
 RT: 6.933 min Scan# 520
 Delta R.T. -0.008 min
 Lab File: 0409_37.D
 Acq: 10 Apr 2019 05:11 am

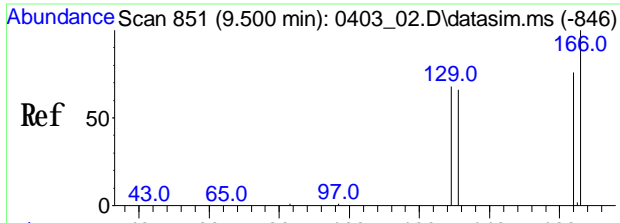
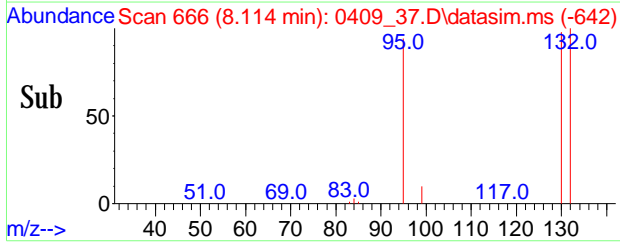
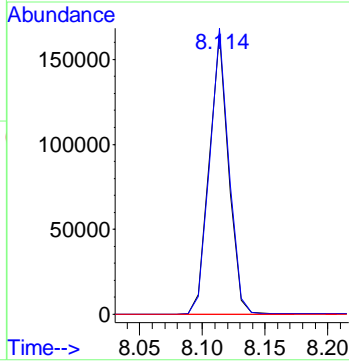
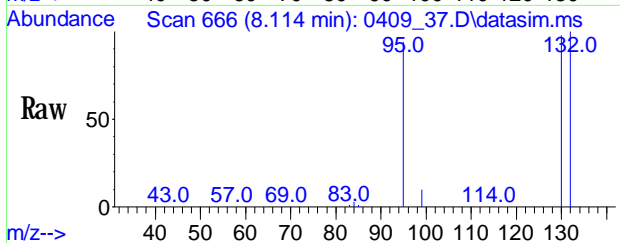
Tgt Ion	Ratio	Resp	Upper
83	100	8303	Lower
85	63.2	52.7	79.1
47	41.3	16.6	25.0#





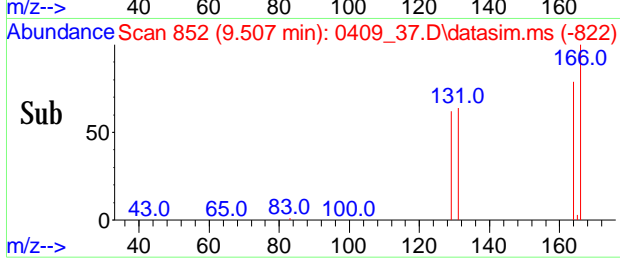
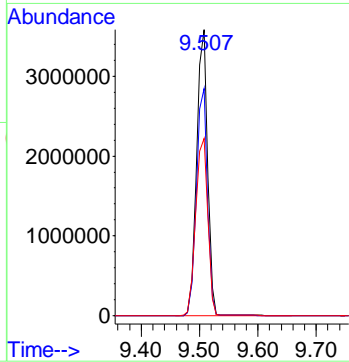
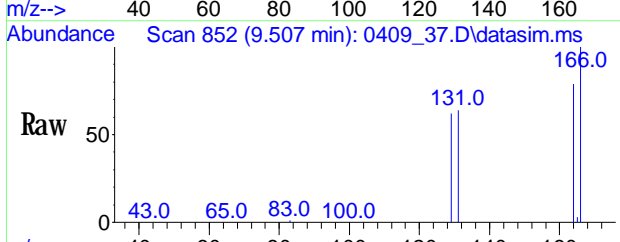
#97
 Trichloroethene(sim)
 Conc: 8S 8.929 ppbv
 RT: 8.111 min Scan# 666
 Delta R.T. 0.000 min
 Lab File: 0409_37.D
 Acq: 10 Apr 2019 05:11 am

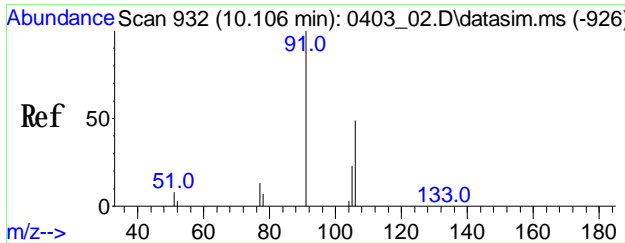
Tgt Ion	Ratio	Resp	Lower	Upper
130	100	138371		
132	97.4	78.0	117.0	
97	70.0	47.2	70.8	



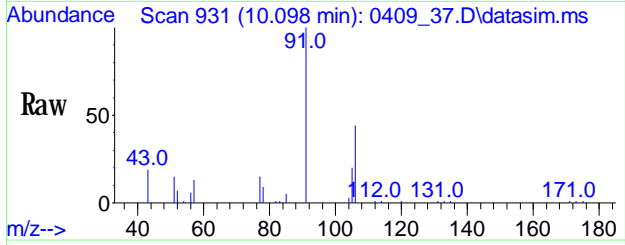
#103
 Tetrachloroethene(sim)
 Conc: 8S 272.888 ppbv
 RT: 9.505 min Scan# 852
 Delta R.T. 0.007 min
 Lab File: 0409_37.D
 Acq: 10 Apr 2019 05:11 am

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	4610542		
164	80.6	57.7	97.7	
129	62.9	48.6	88.6	



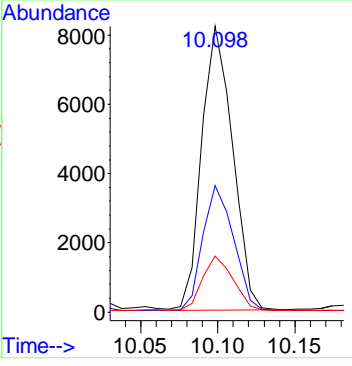
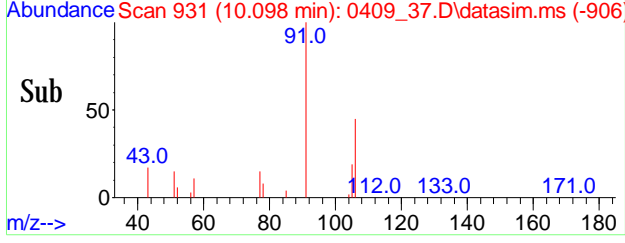


#106
 m p-Xylene (sim)
 Conc: 8S 0.345 ppbv
 RT: 10.098 min Scan# 931
 Delta R.T. -0.007 min
 Lab File: 0409_37.D
 Acq: 10 Apr 2019 05:11 am



Tgt Ion: 91 Resp: 11489

Ion	Ratio	Lower	Upper
91	100		
106	43.7	44.3	54.1#
105	19.1	17.7	26.5



1
AIR ANALYSIS DATA SHEET

CLIENT ID

SS-1 75X

Client: WALDENE Lab: Phoenix Env. Labs

SDG No.: GCC90508 Lab Sample ID: CC90524 75X

Canister: 28557 Lab File ID: 0409_52.D

Instrument: CHEM20 Column: RTX-1 60M Date Received: 04/08/19

Purge Volume 200 (cc) Date Analyzed: 04/10/19

Matrix: AIR Dilution Factor: 75

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
64-17-5	Ethanol	39.8	U	39.8	39.8	
67-64-1	Acetone	31.6	U	31.6	31.6	
156-59-2	Cis-1,2-Dichloroethene	58.9	X	3.79	3.79	
79-01-6	Trichloroethene	37.3	X	2.79	2.79	
108-88-3	Toluene	19.9	U	19.9	19.9	
127-18-4	Tetrachloroethene	1840	D	2.77	2.77	r
156-60-5	Trans-1,2-Dichloroethene(sim)	18.9	U	18.9	18.9	
67-66-3	Chloroform(sim)	15.4	U	15.4	15.4	
179601-23-1	m,p-Xylene(sim)	17.3	U	17.3	17.3	

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.

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2019\CHEM20\04APR\09\
 Data File : 0409_52.D
 Acq On : 10 Apr 2019 03:12 pm
 Operator : CORTEX\ms
 Client ID : SS-1 75X
 Lab ID : CC90524 75X
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 10 16:00:39 2019
 Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_0409.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Wed Apr 10 09:42:38 2019
 Response via : Initial Calibration

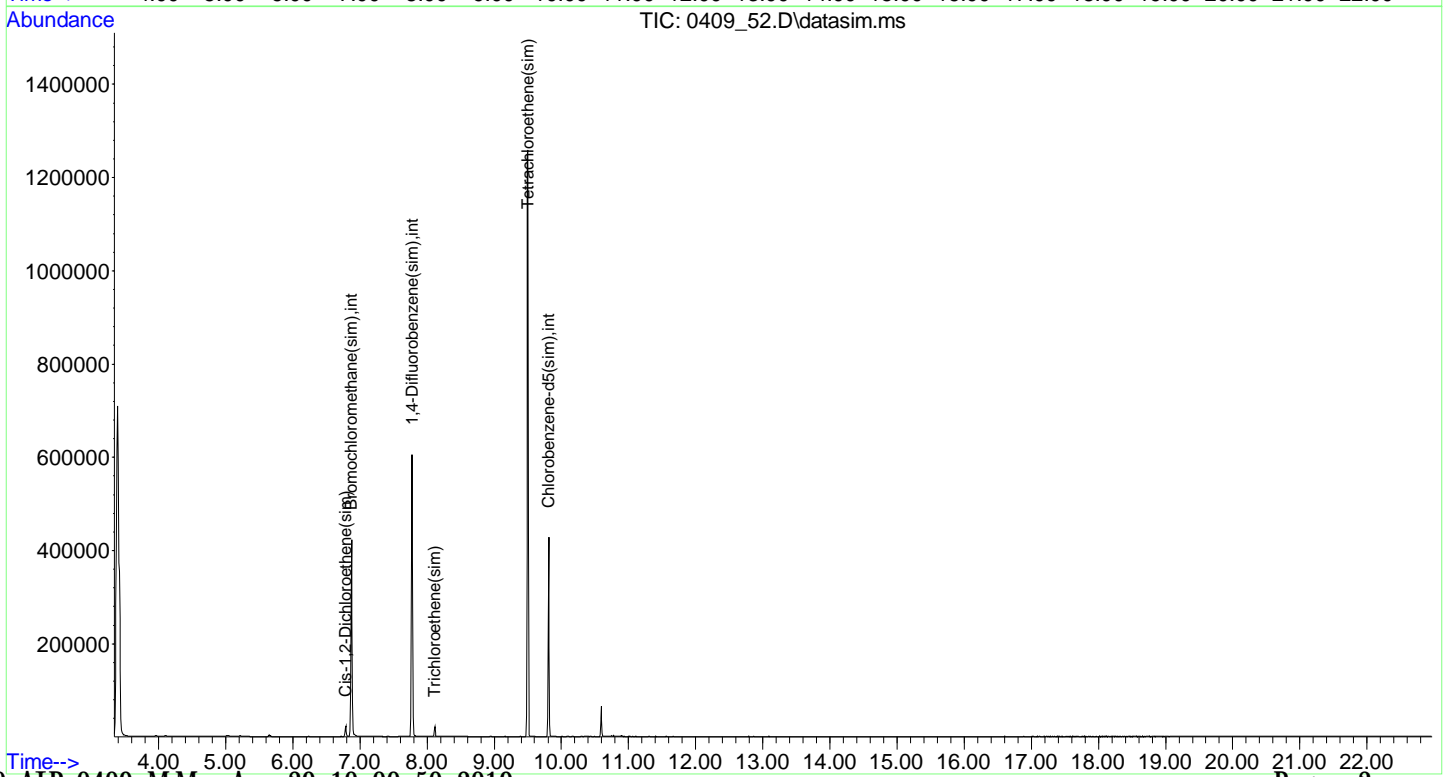
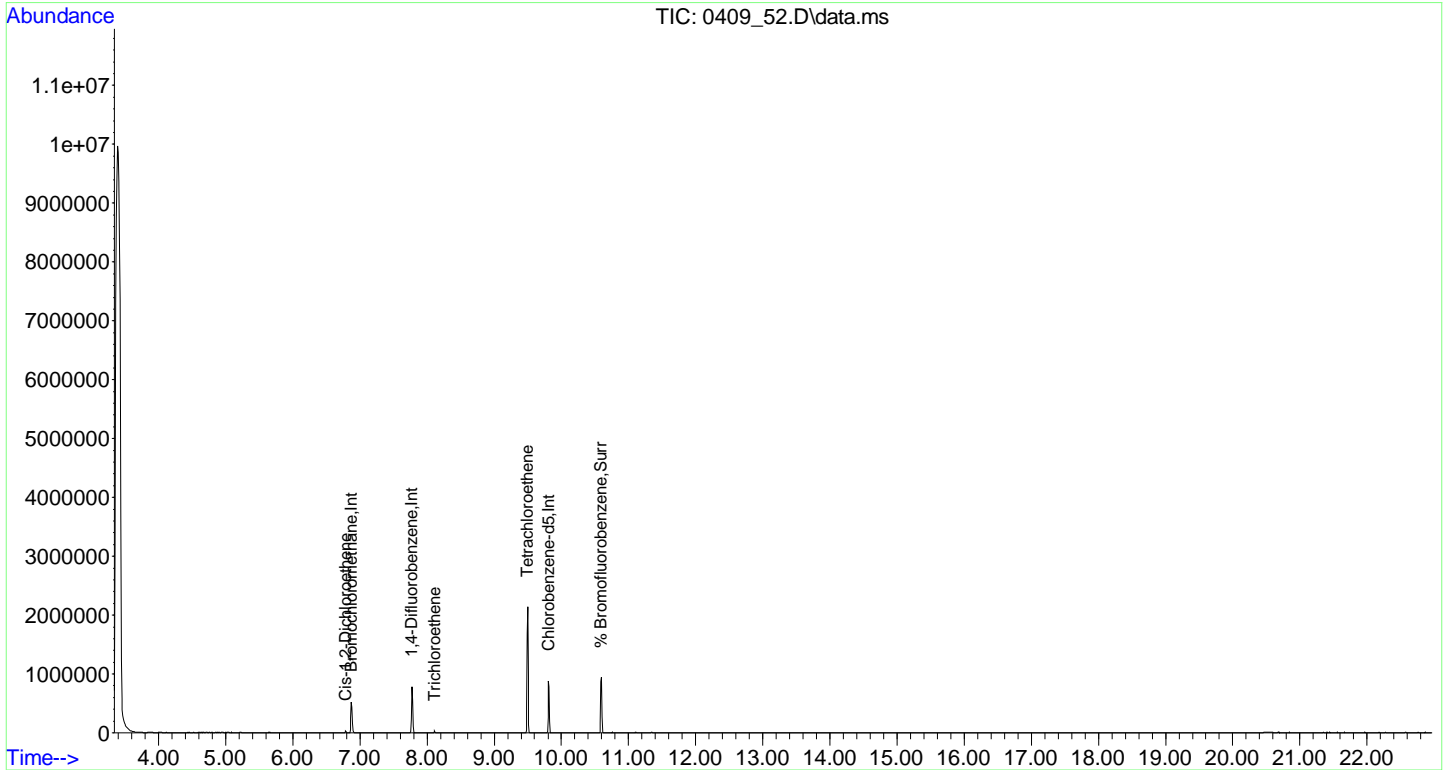
Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
Internal Standards						
1) Bromchloromethane	6.871	130	89308	10.000	ng	0.00
36) 1,4-Difluorobenzene	7.772	114	306244	10.000	ng	0.00
53) Chlorobenzene-d5	9.807	82	158510	10.000	ng	# 0.00
80) Bromchloromethane(sim)	6.874	130	127172	10.000	ng	# 0.00
94) 1,4-Difluorobenzene(sim)	7.775	114	358698	10.000	ng	0.00
104) Chlorobenzene-d5(sim)	9.810	82	160556	10.000	ng	# 0.00
System Monitoring Compounds						
62) % Bromfluorobenzene	10.596	95	208689	10.043	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	100.40%
Target Compounds						
26) Cis-1,2-Dichloroethene	6.786	61	11514	0.785	ppbv#	70
39) Trichloroethene	8.111	130	5714	0.497	ppbv#	89
52) Tetrachloroethene	9.498	166	297563	24.469	ppbv#	87
92) Cis-1,2-Dichloroethene...	6.789	61	13521	0.704	ppbv#	72
97) Trichloroethene(sim)	8.111	130	5714	0.442	ppbv#	93
103) Tetrachloroethene(sim)	9.498	166	297563	21.120	ppbv	87

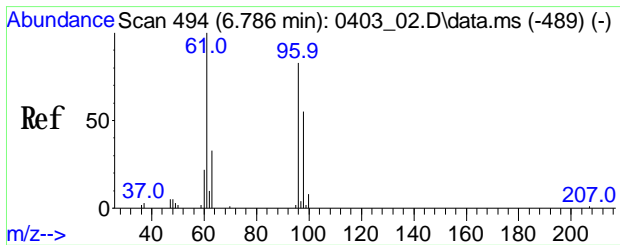
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2019\CHEM20\04APR\09\
Data File : 0409_52.D
Acq On : 10 Apr 2019 03:12 pm
Operator : CORTEX\ns
Client ID : SS-1 75X
Lab ID : CC90524 75X
ALS Vial : 1 Sample Multiplier: 1

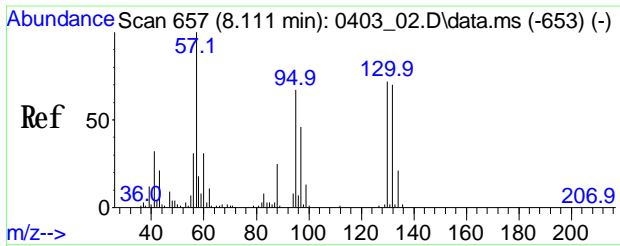
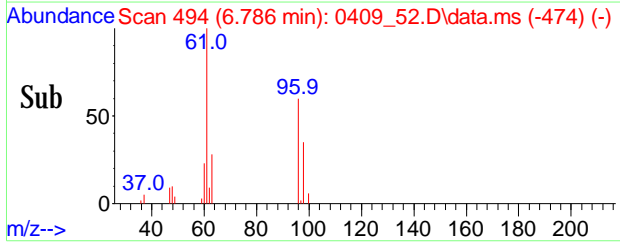
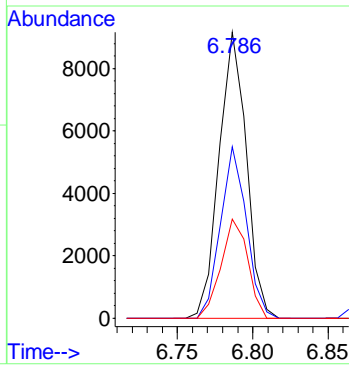
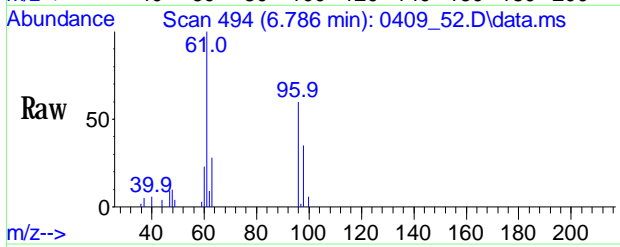
Quant Time: Apr 10 16:00:39 2019
Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_0409.M
Quant Title : VOA Standards for 5 point calibration
Last Update : Wed Apr 10 09:42:38 2019
Response via : Initial Calibration





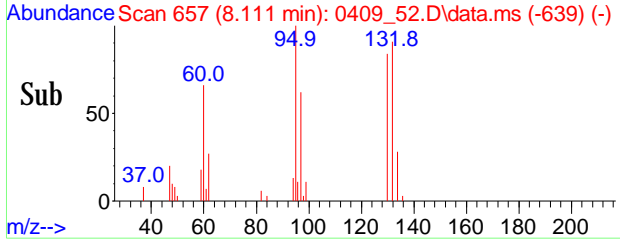
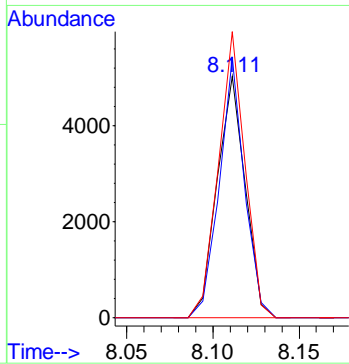
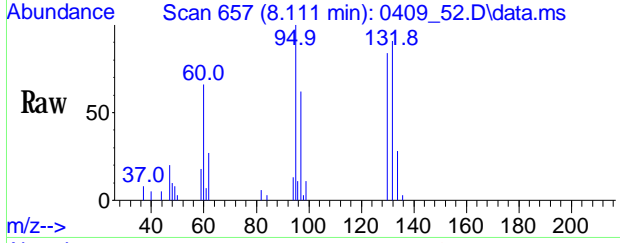
#26
 Cis-1,2-Dichloroethene
 Conc: 8S 0.785 ppby
 RT: 6.786 min Scan# 494
 Delta R.T. -0.008 min
 Lab File: 0409_52.D
 Acq: 10 Apr 2019 03:12 pm

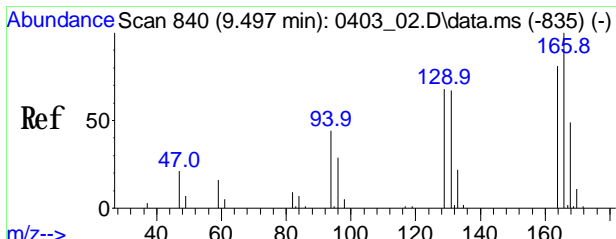
Tgt Ion	Ratio	Resp	Lower	Upper
61	100	11514		
96	57.0	67.8	101.8#	
98	34.0	43.8	65.6#	



#39
 Trichloroethene
 Conc: 8S 0.497 ppby
 RT: 8.111 min Scan# 657
 Delta R.T. 0.000 min
 Lab File: 0409_52.D
 Acq: 10 Apr 2019 03:12 pm

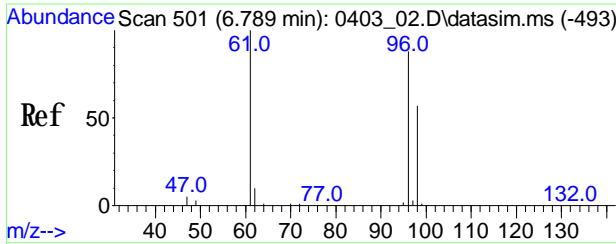
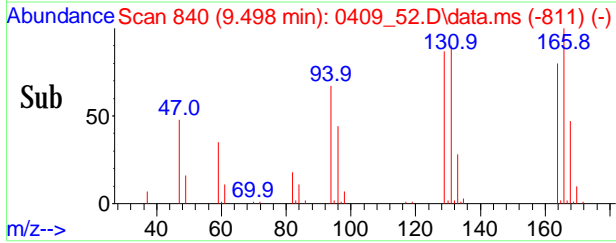
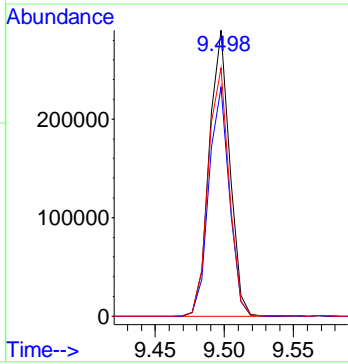
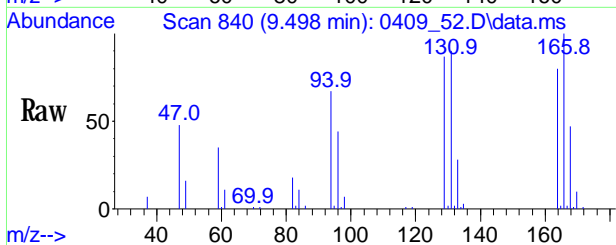
Tgt Ion	Ratio	Resp	Lower	Upper
130	100	5714		
132	96.8	78.0	117.0	
95	112.2	73.0	109.4#	





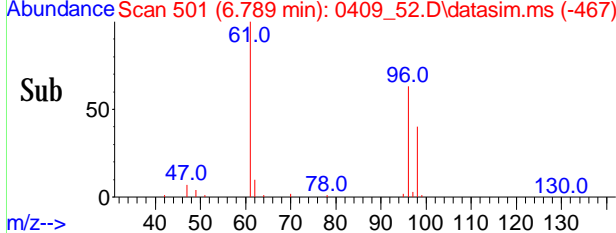
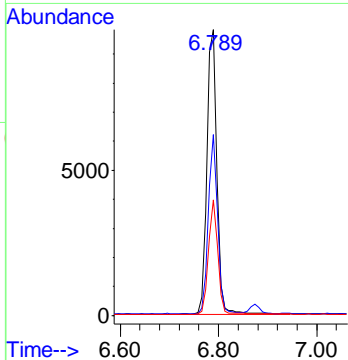
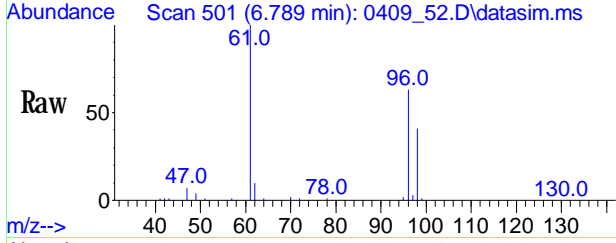
#52
 Tetrachloroethene
 Conc: 8S 24.469 ppbv
 RT: 9.498 min Scan# 840
 Delta R.T. 0.001 min
 Lab File: 0409_52.D
 Acq: 10 Apr 2019 03:12 pm

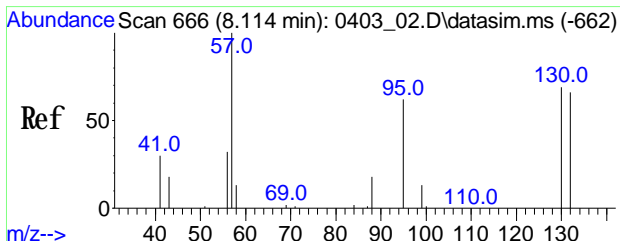
Tgt Ion	Ratio	Resp	Upper
166	100	297563	Lower
164	79.7	62.2	93.2
129	88.2	54.9	82.3#



#92
 Cis-1,2-Dichloroethene(sim)
 Conc: 8S 0.704 ppbv
 RT: 6.789 min Scan# 501
 Delta R.T. 0.000 min
 Lab File: 0409_52.D
 Acq: 10 Apr 2019 03:12 pm

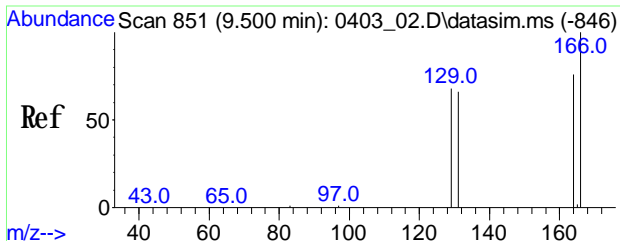
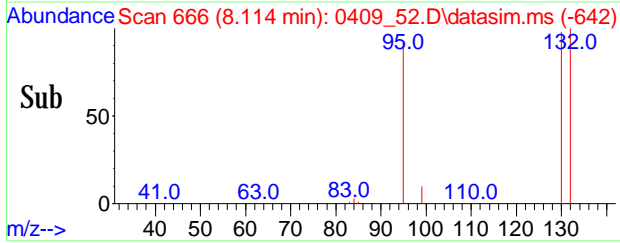
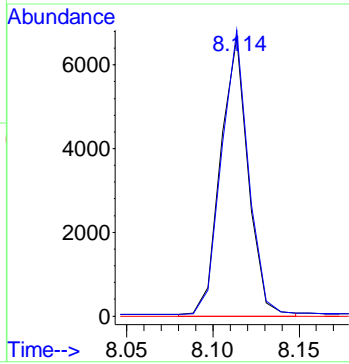
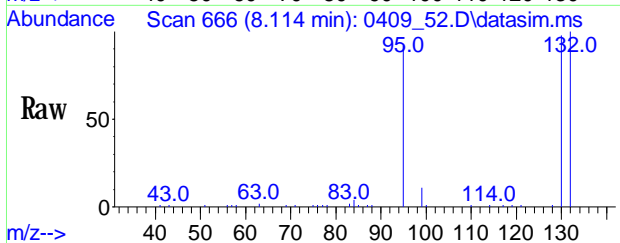
Tgt Ion	Ratio	Resp	Upper
61	100	13521	Lower
96	59.5	69.7	104.5#
98	38.1	45.3	67.9#





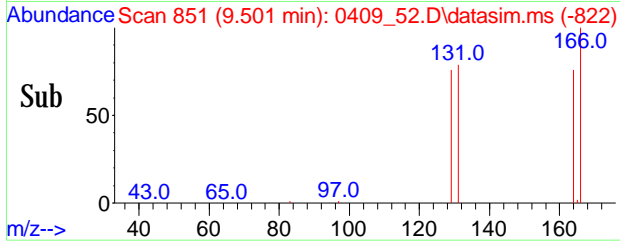
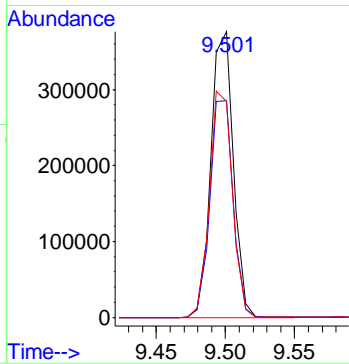
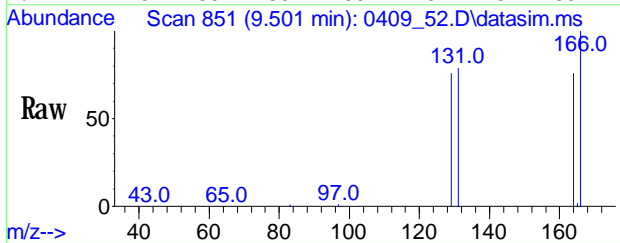
#97
 Trichloroethene(sim)
 Conc: 8S 0.442 ppbv
 RT: 8.111 min Scan# 666
 Delta R.T. 0.000 min
 Lab File: 0409_52.D
 Acq: 10 Apr 2019 03:12 pm

Tgt Ion	Ratio	Resp	Lower	Upper
130	100	5714		
132	96.8	78.0	117.0	
97	72.1	47.2	70.8#	



#103
 Tetrachloroethene(sim)
 Conc: 8S 21.120 ppbv
 RT: 9.498 min Scan# 851
 Delta R.T. 0.001 min
 Lab File: 0409_52.D
 Acq: 10 Apr 2019 03:12 pm

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	297563		
164	79.7	57.7	97.7	
129	88.2	48.6	88.6	



Response Factor Report Chem 20

Method Path : H:\AIR2019\CHEM20\METHODS\
 Method File : 20_AIR_0409.M
 Title : VOA_Standards for 5 point calibration
 Last Update : Wed Apr 10 09:42:38 2019
 Response Via : Initial Calibration

Calibration Files (Note: Curves (l,lf,q,qf) display calculated conc and corr. coefficient.)
 .035=0409_05.D 0.05=0409_06.D 0.10=0409_07.D 0.2 =0409_15.D 0.5 =0409_08.D 1.0 =0409_14.D 2.5 =0409_09.D 5.0 =0409_10.D
 10 =0409_16.D 25 =0409_11.D 40 =0409_12.D 0.02=0409_04.D

Compound	.035	0.05	0.10	0.2	0.5	1.0	2.5	5.0	10	25	40	0.02	Avg	%RSD
1) Int Bromochloromethane	-----ISTD-----													
2) Propylene	1.351	1.158	1.150	1.165	1.292	1.201	1.086	1.022					1.178	8.93
3) Dichlorodifluo...	2.758	2.514	2.556	2.572	2.819	2.596	2.353	2.347					2.564	6.55
4) Chloromethane	1.133	1.115	1.155	1.090	1.188	1.110	0.938	0.841					1.071	11.08
5) 1,2-Dichlorote...	2.560	2.661	2.689	2.651	2.765	2.583	2.166	1.879					2.494	12.34
6) Vinyl Chloride	1.057	1.050	1.160	1.084	1.158	1.078	0.915	0.822					1.041	11.20
7) 1,3-Butadiene	0.869	0.860	0.896	0.932	0.986	0.951	0.802	0.717					0.877	9.88
8) Bromomethane	0.911	0.843	0.958	0.915	0.964	0.912	0.778	0.687					0.871	11.07
9) Chloroethane	0.490	0.519	0.525	0.514	0.542	0.501	0.429	0.386					0.488	10.97
11) Ethanol	0.538	0.443	0.482	0.429	0.448	0.430	0.361	0.311					0.430	16.14
12) Acetone	2.669	2.368	2.356	2.267	2.380	2.292	1.900	1.654					2.236	14.10
13) Trichlorofluor...	3.488	3.497	3.608	3.575	3.703	3.510	2.928	2.519					3.354	12.22
14) Isopropylalcohol	2.747	2.427	2.590	2.393	2.706	2.358	1.932	1.692					2.356	15.70
15) Acrylonitrile	0.602	0.680	0.560	0.551	0.702	0.674	0.467	0.426					0.583	17.39
16) 1,1-Dichloroet...	2.200	2.059	2.128	2.088	2.224	2.106	1.784	1.541					2.016	11.62
17) Methylene Chlo...	1.792	1.518	1.554	1.513	1.660	1.562	1.280	1.110					1.499	14.23
20) Carbon Disulfide	2.476	2.320	2.381	2.248	2.368	2.224	1.899	1.624					2.193	13.09
21) Trichlorotrifl...	2.057	2.145	2.149	2.058	2.233	2.042	1.711	1.474					1.983	12.98
22) Trans-1,2-Dich...	1.707	1.640	1.817	1.706	1.903	1.826	1.612	1.470					1.710	8.10
23) 1,1-Dichloroet...	2.212	2.084	2.326	2.196	2.357	2.201	1.895	1.680					2.119	10.78
24) Methyl tert-bu...	2.621	2.405	2.808	2.590	2.922	2.790	2.482	2.239					2.607	8.77
25) Methyl Ethyl K...	2.916	2.779	3.061	2.846	3.111	3.024	2.538	2.234					2.814	10.57
26) Cis-1,2-Dichlo...	1.723	1.574	1.763	1.636	1.802	1.748	1.540	1.352					1.642	9.13
27) Hexane	1.749	1.567	1.760	1.626	1.817	1.725	1.448	1.241					1.617	11.97
28) Chloroform	2.426	2.347	2.544	2.417	2.595	2.431	2.059	1.780					2.325	11.71
29) Ethyl acetate	0.290	0.267	0.343	0.316	0.369	0.357	0.305	0.265					0.314	12.58
30) Tetrahydrofuran	1.203	1.086	1.275	1.160	1.337	1.320	1.120	0.970					1.184	10.61
31) 1,2-Dichloroet...	2.126	1.935	2.109	2.049	2.202	2.103	1.797	1.542					1.983	11.02
32) 1,1,1-Trichlor...	2.403	2.134	2.510	2.269	2.499	2.434	2.087	1.810					2.269	10.78
33) Benzene	2.163	2.091	2.426	2.296	2.438	2.334	2.035	1.759					2.193	10.48
34) Carbon Tetrach...	1.846	1.443	2.104	1.665	2.043	2.212	2.013	1.808					1.892	13.37
35) Cyclohexane	0.958	0.922	0.931	0.902	0.995	0.939	0.758	0.647					0.881	13.35
36) Int 1,4-Difluorobenzene	-----ISTD-----													
37) 1,2-dichloropr...	0.291	0.310	0.327	0.305	0.350	0.341	0.333	0.318					0.322	6.08
38) Bromdichlorom...	0.674	0.567	0.678	0.619	0.702	0.698	0.674	0.627					0.655	7.09
39) Trichloroethene	0.376	0.358	0.381	0.349	0.407	0.378	0.382	0.372					0.375	4.61
41) 1,4-Dioxane	0.156	0.140	0.158	0.138	0.176	0.165	0.165	0.151					0.156	8.28
43) Heptane	0.499	0.451	0.518	0.493	0.554	0.547	0.506	0.467					0.504	7.04
44) cis-1,3-Dichlo...	0.350	0.324	0.409	0.375	0.463	0.461	0.449	0.431					0.408	12.92
45) 4-Methyl-2-pen...	0.679	0.601	0.679	0.679	0.775	0.763	0.692	0.658					0.691	8.09
46) trans-1,3-Dich...	0.327	0.294	0.365	0.356	0.436	0.454	0.466	0.450					0.394	16.76

Response Factor Report Chem 20

Method Path : H:\AIR2019\CHEM20\METHODS\
 Method File : 20_AIR_0409.M
 Title : VOA Standards for 5 point calibration

47)	1, 1, 2-Trichlor...	0.306	0.303	0.302	0.299	0.349	0.328	0.326	0.317	0.316	5.48	
48)	Toluene	0.721	0.683	0.801	0.768	0.922	0.907	0.889	0.870	0.820	11.00	
49)	Dibromochlorom...	0.481	0.378	0.525	0.469	0.465	0.502	0.532	0.525	0.485	10.41	
50)	2-Hexanone (NBK)		0.498	0.592	0.576	0.711	0.708	0.679	0.641	0.629	12.48	
51)	1, 2-Dibrometh...	0.488	0.460	0.528	0.503	0.586	0.572	0.573	0.555	0.533	8.60	
52)	Tetrachloroethene	0.390	0.361	0.392	0.384	0.426	0.417	0.410	0.396	0.397	5.20	
53)	Int Chlorobenzene-d5	-----ISTD-----										
54)	1, 1, 1, 2-Tetrac...	0.690	0.567	0.772	0.696	0.870	0.914	0.840	0.803	0.769	14.73	
55)	Chlorobenzene	1.653	1.507	1.519	1.536	1.643	1.570	1.440	1.367	1.529	6.28	
56)	Ethylbenzene	2.300	2.129	2.402	2.400	2.659	2.607	2.290	2.163	2.369	8.04	
57)	m p-Xylene	1.748	1.743	1.517	1.904	2.137	2.044	1.762	1.609	1.808	11.60	
58)	Bromform	0.692	0.488	0.732	0.662					0.644	16.73	
59)	Styrene	1.164	1.116	1.249	1.330	1.515	1.471	1.356	1.305	1.313	10.49	
60)	1, 1, 2, 2-Tetrac...	1.370	1.264	1.411	1.398	1.535	1.478	1.254	1.137	1.356	9.60	
61)	o-Xylene	1.784	1.803	1.951	1.978	2.166	2.067	1.775	1.609	1.892	9.58	
62)	Surr% Bromfluorob...	1.331	1.354	1.324	1.361	1.338	1.352	1.232	1.196	1.311	4.73	
64)	Isopropylbenzene	2.539	2.323	2.427	2.537	2.787	2.697	2.367	2.235	2.489	7.56	
66)	4-Ethyltoluene	2.243	2.187	2.458	2.574	2.908	2.820	2.508	2.338	2.504	10.30	
67)	1, 3, 5-Trimethy...	2.078	1.917	2.184	2.206	2.444	2.364	2.097	1.961	2.156	8.48	
68)	1, 2, 4-Trimethy...	1.863	1.886	2.173	2.236	2.469	2.392	2.062	1.811	2.111	11.76	
70)	qi Benzyl chloride		0.713	0.914	1.443	4.902	10.87	25.69	39.46	Coef R2	0.99	
71)	1, 3-Dichlorobe...	1.411	1.245	1.407	1.416	1.560	1.535	1.372	1.301	1.406	7.53	
72)	1, 4-Dichlorobe...	1.417	1.183	1.362	1.368	1.546	1.496	1.368	1.298	1.380	8.14	
73)	sec-Butylbenzene	2.726	2.673	2.959	3.028	3.395	3.243	2.867	2.658	2.944	9.16	
74)	4-Isopropyltol...	2.213	2.263	2.592	2.642	2.983	2.890	2.595	2.354	2.566	10.90	
75)	1, 2-Dichlorobe...	1.275	1.181	1.358	1.359	1.487	1.446	1.321	1.262	1.336	7.45	
76)	n-Butylbenzene		1.796	2.199	2.257	2.705	2.681	2.372	2.190	2.314	13.57	
77)	1, 2, 4-Trichlor...	0.531	0.270	0.430	0.437	0.548	0.655	0.661	0.671	0.525	26.85	
79)	Hexachlorobuta...	0.531	0.471	0.550	0.537	0.649	0.632	0.568	0.543	0.560	10.18	
80)	int Bromchloromethane...	-----ISTD-----										
81)	1, 2-Dichlorote...	2.066	2.190	1.895	1.908	1.973	1.972	1.994	2.071	2.245	2.035	5.91
82)	Vinyl Chloride...	0.990	0.964	0.964	0.922	0.893	0.929	0.917	0.979	1.119	0.964	6.88
83)	Brommethane (sim)	0.948	0.924	0.812	0.679	0.625	0.702	0.688	0.722	1.124	0.803	20.44
84)	Trichlorofluor...	3.465	3.388	3.396	3.185	3.142	3.194	3.202	3.374	3.692	3.337	5.30
85)	1, 2-Dichloroet...	1.737	1.647	1.457	1.584	1.435	1.546	1.541	1.650	1.944	1.616	9.64
86)	1, 1, 1-Trichlor...	2.012	2.054	2.045	2.204	2.022	2.243	2.073	2.315	2.132	2.122	5.11
87)	Carbon Tetrach...	1.405	1.181	1.084	1.376	1.070	1.543	1.252	1.530	1.287	1.303	13.42
88)	1, 1-Dichloroet...	2.013	1.930	1.889	1.812	1.753	1.830	1.793	1.916	2.079	1.891	5.65
89)	Trichlorotrifl...	1.680	1.716	1.484	1.533	1.591	1.576	1.548	1.672	2.268	1.674	14.05
90)	Trans-1, 2-Dich...	1.727	1.609	1.541	1.527	1.462	1.571	1.515	1.667	1.799	1.602	6.84
91)	1, 1-Dichloroet...	1.745	1.724	1.722	1.649	1.545	1.705	1.652	1.765	2.293	1.755	12.08
92)	Cis-1, 2-Dichlo...	1.561	1.518	1.452	1.464	1.372	1.490	1.454	1.593	1.686	1.510	6.12
93)	Chloroform(sim)	1.929	1.890	1.983	1.808	1.740	1.865	1.818	1.944	2.074	1.895	5.34
94)	int 1, 4-Difluorobenzen...	-----ISTD-----										
95)	1, 2-dichloropr...	0.261	0.341	0.288	0.255	0.270	0.286	0.268	0.308	0.393	0.297	15.10
96)	Bromdichlorom...	0.384	0.400	0.392	0.443	0.381	0.443	0.413	0.470	0.412	0.415	7.37
97)	Trichloroethen...	0.441	0.417	0.271	0.330	0.312	0.333	0.308	0.359	0.473	0.360	18.93
98)	1, 4-Dioxane(sim)	0.190	0.148	0.148	0.158	0.142	0.148	0.136	0.164	0.209	0.160	15.08
99)	cis-1, 3-Dichlo...	0.254	0.273	0.238	0.307	0.283	0.357	0.330	0.407	0.378	0.314	18.52

Response Factor Report Chem 20

Method Path : H:\AIR2019\CHEM20\METHODS\
 Method File : 20_AIR_0409.M

Title : VOA Standards for 5 point calibration

		0.358	0.321	0.333	0.327	0.316	0.327	0.324	0.365	0.377	0.339	6.53
100)	1,1,2-Trichlor...	0.358	0.321	0.333	0.327	0.316	0.327	0.324	0.365	0.377	0.339	6.53
101)	Dibromochlorom..	0.400	0.407	0.335	0.422	0.330	0.460	0.413	0.409	0.393	0.397	10.35
102)	1,2-Dibromoth...	0.496	0.492	0.498	0.538	0.492	0.553	0.542	0.627	0.490	0.525	8.67
103)	Tetrachloroeth...	0.515	0.483	0.318	0.342	0.314	0.343	0.338	0.376	0.528	0.393	21.13
104) int	Chlorobenzene-d5(sim)	-----ISTD-----										
105)	Bromoform(sim)	0.616	0.594	0.385	0.681	0.475	0.731	0.650		0.642	0.597	19.04
106)	m p-Xylene(sim)	0.070	0.096	0.189	0.397	0.965	2.092	4.945	10.01	0.044	Coef R2	1.00
107)	1,1,2,2-Tetrac...	1.590	1.138	1.281	1.349	1.230	1.408	1.373	1.511	1.050	1.325	12.97
110)	qi Benzyl chlorid...	0.032	0.043	0.079	0.252	0.401	1.191	2.360	5.030	0.024	Coef R2	0.99
111)	1,3-Dichlorobe...	1.148	0.977	0.934	1.389	1.211	1.404	1.390	1.536	1.138	1.236	16.70
112)	1,4-Dichlorobe...	1.050	1.016	1.204	1.685	1.452	1.698	1.655	1.865	1.117	1.416	22.89
113)	qi sec-Butylbenze...	0.037	0.046	0.087	0.204	0.479	1.051	2.473	5.005	0.023	Coef R2	1.00
114)	qi 4-Isopropyltol...	0.035	0.044	0.086	0.195	0.475	1.046	2.503	4.994	0.026	Coef R2	1.00
115)	1,2-Dichlorobe...	0.989	0.914	0.928	1.255	1.149	1.355	1.333	1.464	0.791	1.131	20.78
116)	qi n-Butylbenzene...	0.035	0.045	0.083	0.193	0.454	1.056	2.518	4.989	0.026	Coef R2	1.00
117)	qi 1,2,4-Trichlor...	0.032	0.042	0.082	0.271	0.485	1.055	2.386	5.036	0.021	Coef R2	1.00
119)	Hexachlorobuta...	0.885	0.581	0.462	0.523	0.458	0.549	0.527	0.642	0.578		23.79

(#, \$, @)=Out of Range l=linear lf=linear(0,0) q=Quadratic qf=Quadratic(0,0)

6B
AIR INITIAL CALIBRATION DATA

Lab Name: Phoenix Environmental Labs
 Lab Code: Phoenix
 Instrument ID: CHEM20
 Heated Purge (Y/N): Y
 GC Column: RTX-1 60M

Client: WALDENE
 SDG No.: GCC90508
 Calibration Date From: 04/09/19 10:16
 Calibration Date Thru: 04/09/19 15:24
 Method File: 20_AIR_0409.M

Laboratory File Ids

RRF1	<u>0409_04.D</u>	RRF2	<u>0409_05.D</u>	RRF3	<u>0409_06.D</u>	RRF4	<u>0409_07.D</u>	RRF5	<u>0409_15.D</u>	RRF6	<u>0409_08.D</u>
RRF7	<u>0409_14.D</u>	RRF8	<u>0409_09.D</u>	RRF9	<u>0409_10.D</u>	RRF10	<u>0409_16.D</u>	RRF11	<u>0409_11.D</u>	RRF12	<u>0409_12.D</u>

COMPOUND	RRF1 0.02	RRF2 0.035	RRF3 0.05	RRF4 0.1	RRF5 0.2	RRF6 0.5	RRF7 1	RRF8 2.5	RRF9 5	RRF10 10	RRF11 25	RRF12 40	__ RRF	% RSD
Propylene					1.351	1.158	1.150	1.165	1.292	1.201	1.086	1.022	1.178	8.93
Dichlorodifluoromethane					2.758	2.514	2.556	2.572	2.819	2.596	2.353	2.347	2.564	6.55
Chloromethane					1.133	1.115	1.155	1.090	1.188	1.110	0.938	0.841	1.071	11.08
1,2-Dichlorotetrafluoroethane					2.560	2.661	2.689	2.651	2.765	2.583	2.166	1.879	2.494	12.34
Vinyl Chloride					1.057	1.050	1.160	1.084	1.158	1.078	0.915	0.822	1.041	11.20
1,3-Butadiene					0.869	0.860	0.896	0.932	0.986	0.951	0.802	0.717	0.877	9.88
Bromomethane					0.911	0.843	0.958	0.915	0.964	0.912	0.778	0.687	0.871	11.07
Chloroethane					0.490	0.519	0.525	0.514	0.542	0.501	0.429	0.386	0.488	10.97
Ethanol					0.538	0.443	0.482	0.429	0.448	0.430	0.361	0.311	0.430	16.14
Acetone					2.669	2.368	2.356	2.267	2.380	2.292	1.900	1.654	2.236	14.10
Trichlorofluoromethane					3.488	3.497	3.608	3.575	3.703	3.510	2.928	2.519	3.354	12.22
Isopropylalcohol					2.747	2.427	2.590	2.393	2.706	2.358	1.932	1.692	2.356	15.70
Acrylonitrile					0.602	0.680	0.560	0.551	0.702	0.674	0.467	0.426	0.583	17.39
1,1-Dichloroethene					2.200	2.059	2.128	2.088	2.224	2.106	1.784	1.541	2.016	11.62
Methylene Chloride					1.792	1.518	1.554	1.513	1.660	1.562	1.280	1.110	1.499	14.23
Carbon Disulfide					2.476	2.320	2.381	2.248	2.368	2.224	1.899	1.624	2.193	13.09
Trichlorotrifluoroethane					2.057	2.145	2.149	2.058	2.233	2.042	1.711	1.474	1.983	12.98
Trans-1,2-Dichloroethene					1.707	1.640	1.817	1.706	1.903	1.826	1.612	1.470	1.710	8.10
1,1-Dichloroethane					2.212	2.084	2.326	2.196	2.357	2.201	1.895	1.680	2.119	10.78
Methyl tert-butyl ether(MTBE)					2.621	2.405	2.808	2.590	2.922	2.790	2.482	2.239	2.607	8.77
Methyl Ethyl Ketone					2.916	2.779	3.061	2.846	3.111	3.024	2.538	2.234	2.814	10.57
Cis-1,2-Dichloroethene					1.723	1.574	1.763	1.636	1.802	1.748	1.540	1.352	1.642	9.13
Hexane					1.749	1.567	1.760	1.626	1.817	1.725	1.448	1.241	1.617	11.97
Chloroform					2.426	2.347	2.544	2.417	2.595	2.431	2.059	1.780	2.325	11.71
Ethyl acetate					0.290	0.267	0.343	0.316	0.369	0.357	0.305	0.265	0.314	12.58
Tetrahydrofuran					1.203	1.086	1.275	1.160	1.337	1.320	1.120	0.970	1.184	10.61
1,2-Dichloroethane					2.126	1.935	2.109	2.049	2.202	2.103	1.797	1.542	1.983	11.02

(#) The maximum %RSD was not met for this compound

6B
AIR INITIAL CALIBRATION DATA

Lab Name: Phoenix Environmental Labs
 Lab Code: Phoenix
 Instrument ID: CHEM20
 Heated Purge (Y/N): Y
 GC Column: RTX-1 60M

Client: WALDENE
 SDG No.: GCC90508
 Calibration Date From: 04/09/19 10:16
 Calibration Date Thru: 04/09/19 15:24
 Method File: 20_AIR_0409.M

Laboratory File Ids

RRF1	<u>0409_04.D</u>	RRF2	<u>0409_05.D</u>	RRF3	<u>0409_06.D</u>	RRF4	<u>0409_07.D</u>	RRF5	<u>0409_15.D</u>	RRF6	<u>0409_08.D</u>
RRF7	<u>0409_14.D</u>	RRF8	<u>0409_09.D</u>	RRF9	<u>0409_10.D</u>	RRF10	<u>0409_16.D</u>	RRF11	<u>0409_11.D</u>	RRF12	<u>0409_12.D</u>

COMPOUND	RRF1 0.02	RRF2 0.035	RRF3 0.05	RRF4 0.1	RRF5 0.2	RRF6 0.5	RRF7 1	RRF8 2.5	RRF9 5	RRF10 10	RRF11 25	RRF12 40	__ RRF	% RSD
1,1,1-Trichloroethane					2.403	2.134	2.510	2.269	2.499	2.434	2.087	1.810	2.269	10.78
Benzene					2.163	2.091	2.426	2.296	2.438	2.334	2.035	1.759	2.193	10.48
Carbon Tetrachloride					1.846	1.443	2.104	1.665	2.043	2.212	2.013	1.808	1.892	13.37
Cyclohexane					0.958	0.922	0.931	0.902	0.995	0.939	0.758	0.647	0.881	13.35
1,2-dichloropropane					0.291	0.310	0.327	0.305	0.350	0.341	0.333	0.318	0.322	6.08
Bromodichloromethane					0.674	0.567	0.678	0.619	0.702	0.698	0.674	0.627	0.655	7.09
Trichloroethene					0.376	0.358	0.381	0.349	0.407	0.378	0.382	0.372	0.375	4.61
1,4-Dioxane					0.156	0.140	0.158	0.138	0.176	0.165	0.165	0.151	0.156	8.28
Heptane					0.499	0.451	0.518	0.493	0.554	0.547	0.506	0.467	0.504	7.04
cis-1,3-Dichloropropene					0.350	0.324	0.409	0.375	0.463	0.461	0.449	0.431	0.408	12.92
4-Methyl-2-pentanone(MIBK)					0.679	0.601	0.679	0.679	0.775	0.763	0.692	0.658	0.691	8.09
trans-1,3-Dichloropropene					0.327	0.294	0.365	0.356	0.436	0.454	0.466	0.450	0.394	16.76
1,1,2-Trichloroethane					0.306	0.303	0.302	0.299	0.349	0.328	0.326	0.317	0.316	5.48
Toluene					0.721	0.683	0.801	0.768	0.922	0.907	0.889	0.870	0.820	11.00
Dibromochloromethane					0.481	0.378	0.525	0.469	0.465	0.502	0.532	0.525	0.485	10.41
2-Hexanone(MBK)						0.498	0.592	0.576	0.711	0.708	0.679	0.641	0.629	12.48
1,2-Dibromoethane(EDB)					0.488	0.460	0.528	0.503	0.586	0.572	0.573	0.555	0.533	8.60
Tetrachloroethene					0.390	0.361	0.392	0.384	0.426	0.417	0.410	0.396	0.397	5.20
1,1,1,2-Tetrachloroethane					0.690	0.567	0.772	0.696	0.870	0.914	0.840	0.803	0.769	14.73
Chlorobenzene					1.653	1.507	1.519	1.536	1.643	1.570	1.440	1.367	1.529	6.28
Ethylbenzene					2.300	2.129	2.402	2.400	2.659	2.607	2.290	2.163	2.369	8.04
m,p-Xylene					1.748	1.743	1.517	1.904	2.137	2.044	1.762	1.609	1.808	11.60
Bromoform					0.692	0.488	0.732	0.662					0.644	16.73
Styrene					1.164	1.116	1.249	1.330	1.515	1.471	1.356	1.305	1.313	10.49
1,1,1,2,2-Tetrachloroethane					1.370	1.264	1.411	1.398	1.535	1.478	1.254	1.137	1.356	9.60
o-Xylene					1.784	1.803	1.951	1.978	2.166	2.067	1.775	1.609	1.892	9.58
Isopropylbenzene					2.539	2.323	2.427	2.537	2.787	2.697	2.367	2.235	2.489	7.56

(#) The maximum %RSD was not met for this compound

6B
AIR INITIAL CALIBRATION DATA

Lab Name: Phoenix Environmental Labs
 Lab Code: Phoenix
 Instrument ID: CHEM20
 Heated Purge (Y/N): Y
 GC Column: RTX-1 60M

Client: WALDENE
 SDG No.: GCC90508
 Calibration Date From: 04/09/19 10:16
 Calibration Date Thru: 04/09/19 15:24
 Method File: 20_AIR_0409.M

Laboratory File Ids

RRF1	<u>0409_04.D</u>	RRF2	<u>0409_05.D</u>	RRF3	<u>0409_06.D</u>	RRF4	<u>0409_07.D</u>	RRF5	<u>0409_15.D</u>	RRF6	<u>0409_08.D</u>
RRF7	<u>0409_14.D</u>	RRF8	<u>0409_09.D</u>	RRF9	<u>0409_10.D</u>	RRF10	<u>0409_16.D</u>	RRF11	<u>0409_11.D</u>	RRF12	<u>0409_12.D</u>

COMPOUND	RRF1 0.02	RRF2 0.035	RRF3 0.05	RRF4 0.1	RRF5 0.2	RRF6 0.5	RRF7 1	RRF8 2.5	RRF9 5	RRF10 10	RRF11 25	RRF12 40	__ RRF	% RSD
4-Ethyltoluene					2.243	2.187	2.458	2.574	2.908	2.820	2.508	2.338	2.504	10.30
1,3,5-Trimethylbenzene					2.078	1.917	2.184	2.206	2.444	2.364	2.097	1.961	2.156	8.48
1,2,4-Trimethylbenzene					1.863	1.886	2.173	2.236	2.469	2.392	2.062	1.811	2.111	11.76
Benzyl chloride						1.025	1.203	1.674	4.789	10.330	25.000	39.980	0.000	0.99
1,3-Dichlorobenzene					1.411	1.245	1.407	1.416	1.560	1.535	1.372	1.301	1.406	7.53
1,4-Dichlorobenzene					1.417	1.183	1.362	1.368	1.546	1.496	1.368	1.298	1.380	8.14
sec-Butylbenzene					2.726	2.673	2.959	3.028	3.395	3.243	2.867	2.658	2.944	9.16
4-Isopropyltoluene					2.213	2.263	2.592	2.642	2.983	2.890	2.595	2.354	2.566	10.90
1,2-Dichlorobenzene					1.275	1.181	1.358	1.359	1.487	1.446	1.321	1.262	1.336	7.45
n-Butylbenzene						1.796	2.199	2.257	2.705	2.681	2.372	2.190	2.314	13.57
1,2,4-Trichlorobenzene					0.531	0.270	0.430	0.437	0.548	0.655	0.661	0.671	0.525	26.85
Hexachlorobutadiene					0.531	0.471	0.550	0.537	0.649	0.632	0.568	0.543	0.560	10.18
1,2-Dichlorotetrafluoroethane(sim)	2.245	2.066	2.190	1.895	1.908	1.973	1.972	1.994	2.071				2.035	5.91
Vinyl Chloride(sim)	1.119	0.990	0.964	0.964	0.922	0.893	0.929	0.917	0.979				0.964	6.88
Bromomethane(sim)	1.124	0.948	0.924	0.812	0.679	0.625	0.702	0.688	0.722				0.803	20.44
Trichlorofluoromethane(sim)	3.692	3.465	3.388	3.396	3.185	3.142	3.194	3.202	3.374				3.337	5.30
1,2-Dichloroethane(sim)	1.944	1.737	1.647	1.457	1.584	1.435	1.546	1.541	1.650				1.616	9.64
1,1,1-Trichloroethane(sim)	2.132	2.012	2.054	2.045	2.204	2.022	2.243	2.073	2.315				2.122	5.11
Carbon Tetrachloride(sim)	1.287	1.405	1.181	1.084	1.376	1.070	1.543	1.252	1.530				1.303	13.42
1,1-Dichloroethene(sim)	2.079	2.013	1.930	1.889	1.812	1.753	1.830	1.793	1.916				1.891	5.65
Trichlorotrifluoroethane(sim)	2.268	1.680	1.716	1.484	1.533	1.591	1.576	1.548	1.672				1.674	14.05
Trans-1,2-Dichloroethene(sim)	1.799	1.727	1.609	1.541	1.527	1.462	1.571	1.515	1.667				1.602	6.84
1,1-Dichloroethane(sim)	2.293	1.745	1.724	1.722	1.649	1.545	1.705	1.652	1.765				1.755	12.08
Cis-1,2-Dichloroethene(sim)	1.686	1.561	1.518	1.452	1.464	1.372	1.490	1.454	1.593				1.510	6.12
Chloroform(sim)	2.074	1.929	1.890	1.983	1.808	1.740	1.865	1.818	1.944				1.895	5.34
1,2-dichloropropane(sim)	0.393	0.261	0.341	0.288	0.255	0.270	0.286	0.268	0.308				0.297	15.10
Bromodichloromethane(sim)	0.412	0.384	0.400	0.392	0.443	0.381	0.443	0.413	0.470				0.415	7.37

(#) The maximum %RSD was not met for this compound

6B
AIR INITIAL CALIBRATION DATA

Lab Name: Phoenix Environmental Labs
 Lab Code: Phoenix
 Instrument ID: CHEM20
 Heated Purge (Y/N): Y
 GC Column: RTX-1 60M

Client: WALDENE
 SDG No.: GCC90508
 Calibration Date From: 04/09/19 10:16
 Calibration Date Thru: 04/09/19 15:24
 Method File: 20_AIR_0409.M

Laboratory File Ids

RRF1	<u>0409_04.D</u>	RRF2	<u>0409_05.D</u>	RRF3	<u>0409_06.D</u>	RRF4	<u>0409_07.D</u>	RRF5	<u>0409_15.D</u>	RRF6	<u>0409_08.D</u>
RRF7	<u>0409_14.D</u>	RRF8	<u>0409_09.D</u>	RRF9	<u>0409_10.D</u>	RRF10	<u>0409_16.D</u>	RRF11	<u>0409_11.D</u>	RRF12	<u>0409_12.D</u>

COMPOUND	RRF1 0.02	RRF2 0.035	RRF3 0.05	RRF4 0.1	RRF5 0.2	RRF6 0.5	RRF7 1	RRF8 2.5	RRF9 5	RRF10 10	RRF11 25	RRF12 40	__ RRF	% RSD
Trichloroethene(sim)	0.473	0.441	0.417	0.271	0.330	0.312	0.333	0.308	0.359				0.360	18.93
1,4-Dioxane(sim)	0.209	0.190	0.148	0.148	0.158	0.142	0.148	0.136	0.164				0.160	15.08
cis-1,3-Dichloropropene(sim)	0.378	0.254	0.273	0.238	0.307	0.283	0.357	0.330	0.407				0.314	18.52
1,1,2-Trichloroethane(sim)	0.377	0.358	0.321	0.333	0.327	0.316	0.327	0.324	0.365				0.339	6.53
Dibromochloromethane(sim)	0.393	0.400	0.407	0.335	0.422	0.330	0.460	0.413	0.409				0.397	10.35
1,2-Dibromoethane(EDB)(sim)	0.490	0.496	0.492	0.498	0.538	0.492	0.553	0.542	0.627				0.525	8.67
Tetrachloroethene(sim)	0.528	0.515	0.483	0.318	0.342	0.314	0.343	0.338	0.376	0.371			0.393	21.13
Bromoform(sim)	0.642	0.616	0.594	0.385	0.681	0.475	0.731	0.650					0.597	19.04
m,p-Xylene(sim)	0.040	0.067	0.093	0.186	0.395	0.967	2.099	4.955	10.010				0.000	1.00
1,1,2,2-Tetrachloroethane(sim)	1.050	1.590	1.138	1.281	1.349	1.230	1.408	1.373	1.511				1.325	12.97
Benzyl chloride(sim)	0.022	0.006	0.048	0.247	0.412	1.243	2.413	5.009					0.000	1.00
1,3-Dichlorobenzene(sim)	1.138	1.148	0.977	0.934	1.389	1.211	1.404	1.390	1.536				1.236	16.70
1,4-Dichlorobenzene(sim)	1.117	1.050	1.016	1.204	1.685	1.452	1.698	1.655	1.865				1.416	22.89
sec-Butylbenzene(sim)	0.022	0.036	0.045	0.086	0.204	0.479	1.053	2.477	5.003				0.000	1.00
4-Isopropyltoluene(sim)	0.031	0.040	0.049	0.090	0.197	0.472	1.036	2.489	5.001				0.000	1.00
1,2-Dichlorobenzene(sim)	0.791	0.989	0.914	0.928	1.255	1.149	1.355	1.333	1.464				1.131	20.78
n-Butylbenzene(sim)	0.036	0.045	0.054	0.091	0.197	0.450	1.039	2.494	5.001				0.000	1.00
1,2,4-Trichlorobenzene(sim)	0.036	0.006	0.017	0.061	0.268	0.499	1.100	2.446	5.007				0.000	1.00
Hexachlorobutadiene(sim)		0.885	0.581	0.462	0.523	0.458	0.549	0.527	0.642				0.578	23.79
% Bromofluorobenzene					1.331	1.354	1.324	1.361	1.338	1.352	1.232	1.196	1.311	4.73

(#) The maximum %RSD was not met for this compound

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM20\04APR\09\
 Data File : 0409_04.D
 Acq On : 09 Apr 2019 07:45 am
 Operator : CORTEX\ns
 Client ID : ICAL 0.02
 Lab ID : 0.02
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 09 10:33:20 2019
 Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_0409.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Tue Apr 09 10:32:02 2019
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
Internal Standards						
1) Bromchloromethane	6.879	130	150704	10.000	ng	0.00
36) 1,4-Difluorobenzene	7.780	114	454364	10.000	ng	0.00
53) Chlorobenzene-d5	9.815	82	205345	10.000	ng	# 0.00
80) Bromchloromethane(sim)	6.882	130	199331	10.000	ng	# 0.00
94) 1,4-Difluorobenzene(sim)	7.775	114	518707	10.000	ng	0.00
104) Chlorobenzene-d5(sim)	9.810	82	208626	10.000	ng	# 0.00

System Monitoring Compounds						
62) % Bromfluorobenzene	10.596	95	270035	0.000	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	0.00%#

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propylene	3.630	41	318	0.018	ppbv	96
3) Dichlorodifluoromethane	3.695	85	948	0.025	ppbv#	60
4) Chloromethane	3.841	50	516	0.032	ppbv#	41
5) 1,2-Dichlorotetrafluor...	3.938	85	895	0.024	ppbv#	81
6) Vinyl Chloride	4.035	62	286	0.018	ppbv#	42
7) 1,3-Butadiene	4.149	54	75	0.006	ppbv#	1
8) Bromomethane	4.384	94	349	0.027	ppbv#	80
9) Chloroethane	0.000	64	0	0.000	ppbv	0
11) Ethanol	4.676	45	101	0.016	ppbv#	29
12) Acetone	5.041	43	1401	0.042	ppbv#	71
13) Trichlorofluoromethane	5.122	101	1301	0.026	ppbv#	92
14) Isopropylalcohol	5.228	45	1196	0.034	ppbv#	96
15) Acrylonitrile	0.000	53	0	0.000	ppbv	0
16) 1,1-Dichloroethene	5.584	61	661	0.022	ppbv#	68
17) Methylene Chloride	5.661	49	949	0.042	ppbv#	45
20) Carbon Disulfide	5.870	76	1019	0.031	ppbv#	74
21) Trichlorotrifluoroethane	5.834	101	599	0.020	ppbv	96
22) Trans-1,2-Dichloroethene	6.234	61	595	0.023	ppbv#	62
23) 1,1-Dichloroethane	6.354	63	745	0.023	ppbv	72
24) Methyl tert-butyl ethe...	6.406	73	911	0.023	ppbv#	83
25) Methyl Ethyl Ketone	6.589	43	789	0.019	ppbv#	60
26) Cis-1,2-Dichloroethene	6.794	61	562	0.023	ppbv#	58
27) Hexane	6.887	57	470	0.019	ppbv#	38
28) Chloroform	6.941	83	827	0.024	ppbv#	73
29) Ethyl acetate	6.794	61	562	0.119	ppbv#	13
30) Tetrahydrofuran	7.166	42	244	0.014	ppbv#	22
31) 1,2-Dichloroethane	7.297	62	535	0.018	ppbv#	95
32) 1,1,1-Trichloroethane	7.414	97	751	0.022	ppbv#	86
33) Benzene	7.636	78	813	0.025	ppbv#	78
34) Carbon Tetrachloride	7.704	117	283	0.010	ppbv#	69
35) Cyclohexane	7.764	41	330	0.025	ppbv#	1
37) 1,2-dichloropropane	8.009	63	159	0.011	ppbv#	58
38) Bromdichloromethane	8.102	83	497	0.017	ppbv	93
39) Trichloroethene	8.111	130	527	0.031	ppbv#	63
41) 1,4-Dioxane	0.000	88	0	0.000	ppbv	0
43) Heptane	8.221	43	408	0.018	ppbv#	48
44) cis-1,3-Dichloropropene	8.492	75	272	0.015	ppbv#	46
45) 4-Methyl-2-pentanone(M..	8.509	43	489	0.016	ppbv#	56
46) trans-1,3-Dichloropropene	8.723	75	261	0.015	ppbv#	46
47) 1,1,2-Trichloroethane	8.815	97	280	0.019	ppbv#	87
48) Toluene	8.948	91	850	0.023	ppbv	93
49) Dibromchloromethane	9.160	129	230	0.010	ppbv#	32
50) 2-Hexanone (MBK)	9.047	43	515	0.018	ppbv#	61
51) 1,2-Dibromethane (EDB)	9.286	107	391	0.016	ppbv#	76

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM20\04APR\09\
 Data File : 0409_04.D
 Acq On : 09 Apr 2019 07:45 am
 Operator : CORTEX\ms
 Client ID : ICAL 0.02
 Lab ID : 0.02
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 09 10:33:20 2019
 Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_0409.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Tue Apr 09 10:32:02 2019
 Response via : Initial Calibration

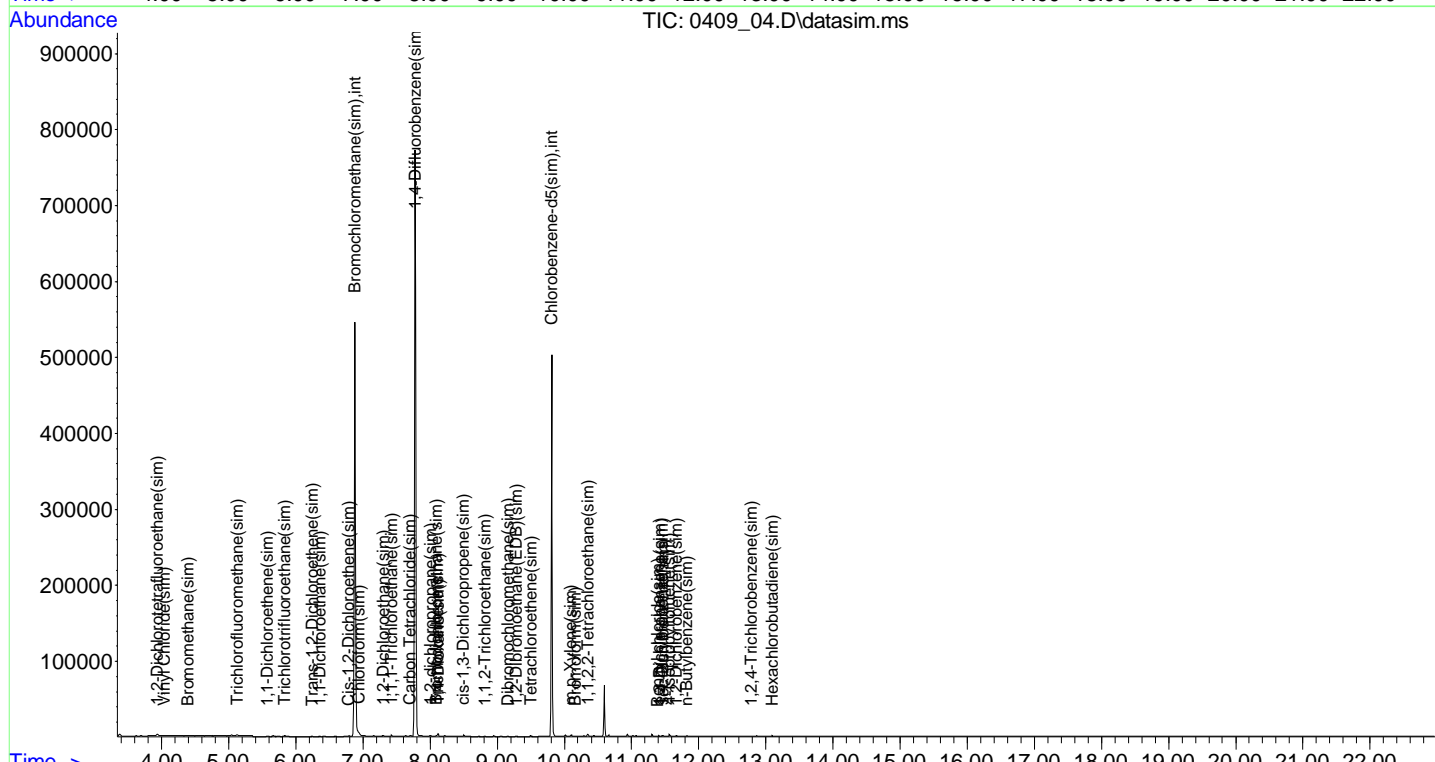
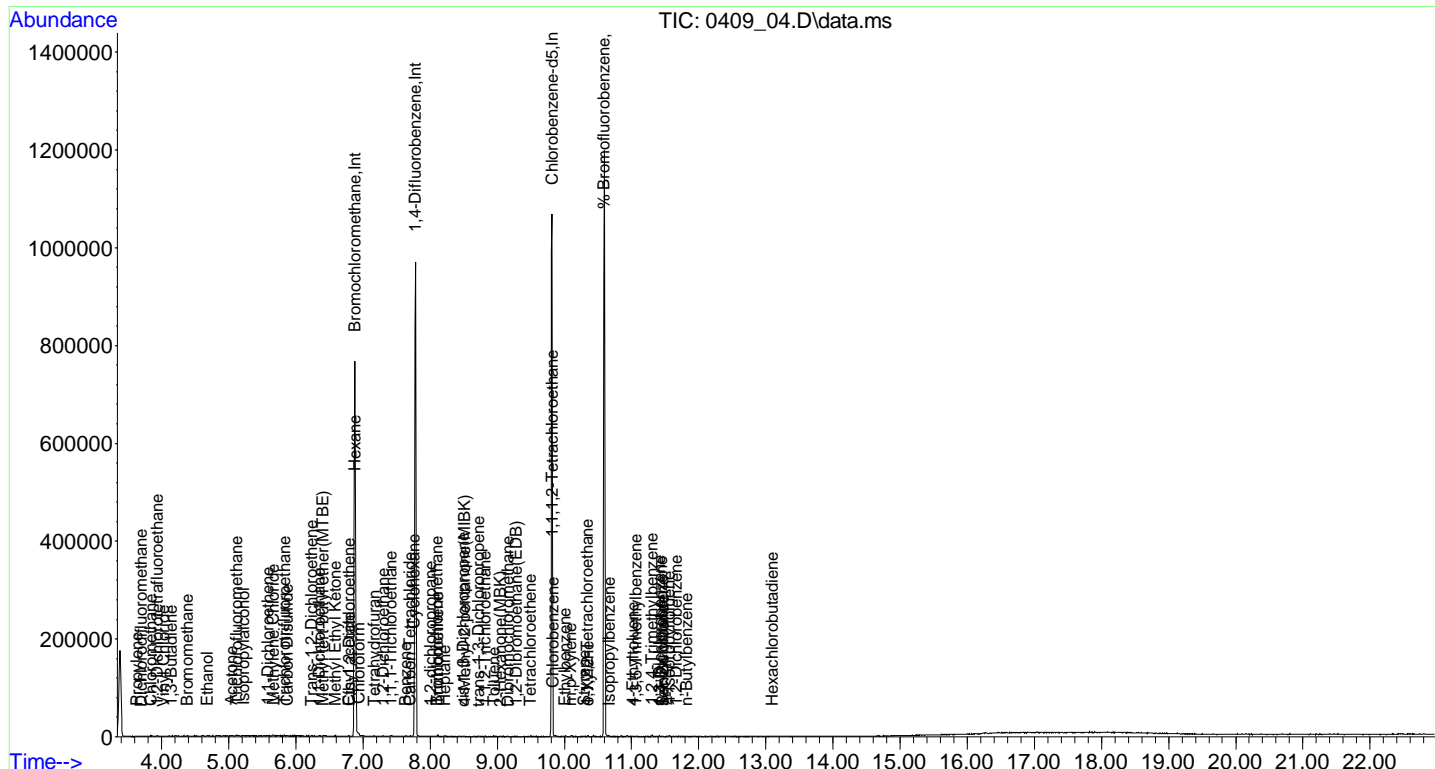
Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
52) Tetrachloroethene	9.497	166	292	0.016	ppbv#	68
54) 1,1,1,2-Tetrachloroethane	9.822	131	136	0.009	ppbv#	74
55) Chlorobenzene	9.830	112	617	0.020	ppbv#	1
56) Ethylbenzene	10.012	91	1011	0.021	ppbv	82
57) m p-Xylene	10.095	91	1534	0.041	ppbv	93
58) Bromoform	0.000	173	0	0.000	ppbv	0
60) 1,1,2,2-Tetrachloroethane	10.346	83	438	0.016	ppbv#	71
61) o-Xylene	10.353	91	622	0.016	ppbv#	88
64) Isopropylbenzene	10.664	105	1024	0.020	ppbv#	89
66) 4-Ethyltoluene	11.021	105	866	0.017	ppbv#	82
67) 1,3,5-Trimethylbenzene	11.066	105	919	0.021	ppbv#	79
68) 1,2,4-Trimethylbenzene	11.309	105	790	0.018	ppbv#	68
71) 1,3-Dichlorobenzene	11.416	146	475	0.016	ppbv#	74
72) 1,4-Dichlorobenzene	11.446	146	278	0.010	ppbv#	77
73) sec-Butylbenzene	11.469	105	904	0.015	ppbv#	70
74) 4-Isopropyltoluene	11.567	119	804	0.015	ppbv	92
75) 1,2-Dichlorobenzene	11.666	146	330	0.012	ppbv	94
76) n-Butylbenzene	11.826	91	519	0.011	ppbv#	75
79) Hexachlorobutadiene	13.094	225	211	0.018	ppbv#	66
81) 1,2-Dichlorotetrafluor...	3.938	85	895	0.022	ppbv#	81
82) Vinyl Chloride(sim)	4.038	62	446	0.023	ppbv	98
83) Bromomethane(sim)	4.395	94	448m	0.028	ppbv	80
84) Trichlorofluoromethane...	5.125	101	1472	0.022	ppbv	100
85) 1,2-Dichloroethane(sim)	7.300	62	775m	0.024	ppbv	95
86) 1,1,1-Trichloroethane(...)	7.424	97	850	0.020	ppbv#	91
87) Carbon Tetrachloride(sim)	7.707	117	513m	0.020	ppbv	69
88) 1,1-Dichloroethene(sim)	5.581	61	829	0.022	ppbv#	76
89) Trichlorotrifluoroetha...	5.831	101	904m	0.027	ppbv	98
90) Trans-1,2-Dichloroethe...	6.242	61	717	0.022	ppbv#	83
91) 1,1-Dichloroethane(sim)	6.357	63	914m	0.026	ppbv	72
92) Cis-1,2-Dichloroethene...	6.789	61	672	0.022	ppbv#	78
93) Chloroform(sim)	6.941	83	827	0.022	ppbv#	73
95) 1,2-dichloropropane(sim)	8.012	63	408m	0.026	ppbv	58
96) Bromdichloromethane(sim)	8.097	85	427	0.020	ppbv	78
97) Trichloroethene(sim)	8.114	130	491m	0.026	ppbv	56
98) 1,4-Dioxane(sim)	8.122	88	217	0.026	ppbv#	82
99) cis-1,3-Dichloropropen...	8.495	75	392m	0.024	ppbv	46
100) 1,1,2-Trichloroethane(...)	8.818	97	391	0.022	ppbv	99
101) Dibromochloromethane(sim)	9.163	129	408m	0.020	ppbv	26
102) 1,2-Dibromomethane(EDB)...	9.282	107	508	0.019	ppbv	97
103) Tetrachloroethene(sim)	9.500	166	548m	0.027	ppbv	68
105) Bromoform(sim)	10.167	173	268m	0.022	ppbv	0
107) 1,1,2,2-Tetrachloroeth...	10.346	83	438	0.016	ppbv#	47
111) 1,3-Dichlorobenzene(sim)	11.416	146	475	0.018	ppbv#	74
112) 1,4-Dichlorobenzene(sim)	11.456	146	466	0.016	ppbv	96
115) 1,2-Dichlorobenzene(sim)	11.666	146	330	0.014	ppbv	94
119) Hexachlorobutadiene(sim)	13.094	225	211	0.017	ppbv#	66

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

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM20\04APR\09\
 Data File : 0409_04.D
 Acq On : 09 Apr 2019 07:45 am
 Operator : CORTEX\ns
 Client ID : ICAL 0.02
 Lab ID : 0.02
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 09 10:33:20 2019
 Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_0409.M
 Quant Title : VOA Standards for 5 point calibration
 Last Update : Tue Apr 09 10:32:02 2019
 Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM20\04APR\09\
 Data File : 0409_05.D
 Acq On : 09 Apr 2019 08:22 am
 Operator : CORTEX\ms
 Client ID : ICAL 0.035
 Lab ID : 0.035
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 09 10:34:42 2019
 Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_0409.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Tue Apr 09 10:33:33 2019
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
Internal Standards						
1) Bromchloromethane	6.871	130	147499	10.000	ng	0.00
36) 1,4-Difluorobenzene	7.772	114	445267	10.000	ng	0.00
53) Chlorobenzene-d5	9.807	82	202585	10.000	ng	# 0.00
80) Bromchloromethane(sim)	6.874	130	195696	10.000	ng	# 0.00
94) 1,4-Difluorobenzene(sim)	7.775	114	506266	10.000	ng	0.00
104) Chlorobenzene-d5(sim)	9.810	82	205987	10.000	ng	# 0.00

System Monitoring Compounds						
62) % Bromfluorobenzene	10.596	95	269572	0.000	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	0.00%#

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propylene	3.589	41	565	0.033	ppbv#	76
3) Dichlorodifluoromethane	3.654	85	1368	0.036	ppbv#	81
4) Chloromethane	3.800	50	613	0.039	ppbv#	64
5) 1,2-Dichlorotetrafluor...	3.906	85	1415	0.038	ppbv	95
6) Vinyl Chloride	4.011	62	581	0.038	ppbv#	42
7) 1,3-Butadiene	4.125	54	415	0.032	ppbv#	42
8) Bromomethane	4.360	94	483	0.038	ppbv#	73
9) Chloroethane	4.514	64	100	0.014	ppbv#	46
11) Ethanol	4.660	45	408	0.064	ppbv#	57
12) Acetone	5.025	43	1888	0.057	ppbv#	79
13) Trichlorofluoromethane	5.106	101	1862	0.038	ppbv#	93
14) Isopropylalcohol	5.212	45	1722	0.050	ppbv#	97
15) Acrylonitrile	5.341	53	413	0.048	ppbv#	64
16) 1,1-Dichloroethene	5.560	61	1173	0.039	ppbv#	71
17) Methylene Chloride	5.643	49	1351	0.061	ppbv#	56
20) Carbon Disulfide	5.852	76	1493	0.046	ppbv#	94
21) Trichlorotrifluoroethane	5.810	101	1151	0.039	ppbv#	81
22) Trans-1,2-Dichloroethene	6.223	61	792	0.031	ppbv#	85
23) 1,1-Dichloroethane	6.338	63	1195	0.038	ppbv	77
24) Methyl tert-butyl ethe...	6.396	73	1325	0.034	ppbv#	68
25) Methyl Ethyl Ketone	6.573	43	1396	0.034	ppbv#	60
26) Cis-1,2-Dichloroethene	6.786	61	802	0.033	ppbv#	83
27) Hexane	6.879	57	769	0.032	ppbv#	62
28) Chloroform	6.933	83	1321	0.039	ppbv#	89
29) Ethyl acetate	6.786	61	802	0.173	ppbv#	13
30) Tetrahydrofuran	7.158	42	492	0.028	ppbv#	37
31) 1,2-Dichloroethane	7.290	62	1190	0.041	ppbv#	75
32) 1,1,1-Trichloroethane	7.414	97	1079	0.032	ppbv	90
33) Benzene	7.628	78	1238	0.038	ppbv#	76
34) Carbon Tetrachloride	7.696	117	962	0.034	ppbv#	66
35) Cyclohexane	7.755	41	313	0.024	ppbv#	1
37) 1,2-dichloropropane	8.009	63	463	0.032	ppbv#	71
38) Bromdichloromethane	8.094	83	858	0.029	ppbv	78
39) Trichloroethene	8.111	130	593	0.035	ppbv	95
41) 1,4-Dioxane	8.111	88	81	0.012	ppbv#	1
43) Heptane	8.221	43	603	0.027	ppbv#	70
44) cis-1,3-Dichloropropene	8.492	75	450	0.025	ppbv	89
45) 4-Methyl-2-pentanone(M..	8.500	43	949	0.031	ppbv#	71
46) trans-1,3-Dichloropropene	8.723	75	455	0.026	ppbv#	46
47) 1,1,2-Trichloroethane	8.815	97	525	0.037	ppbv	88
48) Toluene	8.948	91	989	0.027	ppbv#	90
49) Dibromchloromethane	9.160	129	341	0.016	ppbv#	75
50) 2-Hexanone (MBK)	9.054	43	691	0.025	ppbv#	62
51) 1,2-Dibromethane (EDB)	9.279	107	599	0.025	ppbv	98

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM20\04APR\09\
 Data File : 0409_05.D
 Acq On : 09 Apr 2019 08:22 am
 Operator : CORTEX\ms
 Client ID : ICAL 0.035
 Lab ID : 0.035
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 09 10:34:42 2019
 Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_0409.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Tue Apr 09 10:33:33 2019
 Response via : Initial Calibration

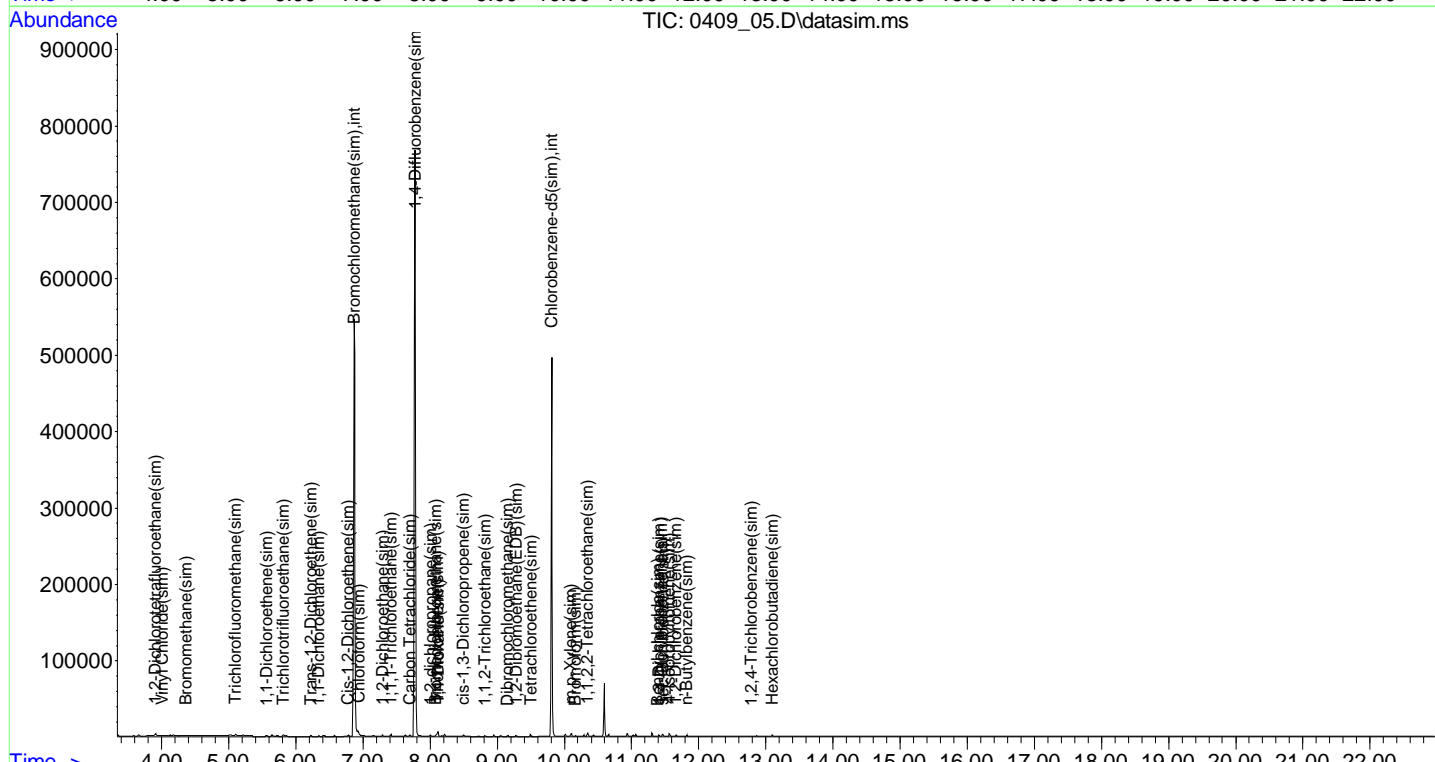
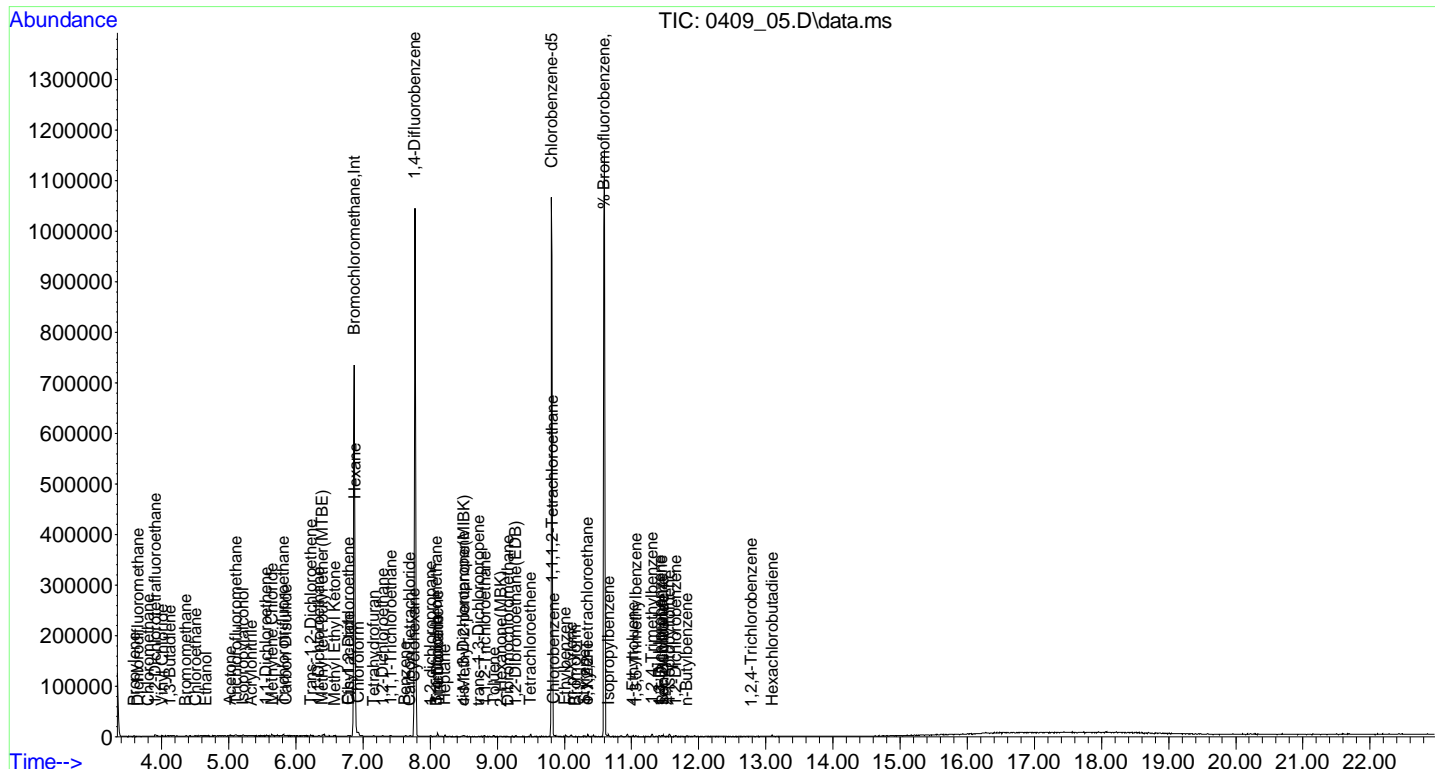
Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
52) Tetrachloroethene	9.497	166	480	0.027	ppbv#	72
54) 1,1,1,2-Tetrachloroethane	9.822	131	227	0.015	ppbv#	58
55) Chlorobenzene	9.838	112	1112	0.036	ppbv#	1
56) Ethylbenzene	10.012	91	1796	0.037	ppbv	83
57) m p-Xylene	10.103	91	2423	0.066	ppbv	94
58) Bromform	10.164	173	133	0.010	ppbv#	51
60) 1,1,2,2-Tetrachloroethane	10.346	83	787	0.029	ppbv#	80
61) o-Xylene	10.346	91	1117	0.029	ppbv#	79
64) Isopropylbenzene	10.656	105	1856	0.037	ppbv#	94
66) 4-Ethyltoluene	11.021	105	1488	0.029	ppbv#	75
67) 1,3,5-Trimethylbenzene	11.066	105	1372	0.031	ppbv#	71
68) 1,2,4-Trimethylbenzene	11.309	105	1012	0.024	ppbv	95
71) 1,3-Dichlorobenzene	11.416	146	749	0.026	ppbv#	85
72) 1,4-Dichlorobenzene	11.453	146	527	0.019	ppbv	91
73) sec-Butylbenzene	11.469	105	1572	0.026	ppbv#	76
74) 4-Isopropyltoluene	11.560	119	1672	0.032	ppbv#	84
75) 1,2-Dichlorobenzene	11.659	146	713	0.026	ppbv	94
76) n-Butylbenzene	11.826	91	1000	0.021	ppbv#	75
79) Hexachlorobutadiene	13.101	225	301	0.027	ppbv	83
81) 1,2-Dichlorotetrafluor...	3.906	85	1415	0.036	ppbv	96
82) Vinyl Chloride(sim)	4.014	62	678	0.036	ppbv	90
83) Brommethane(sim)	4.363	94	649m	0.041	ppbv	73
84) Trichlorofluoromethane...	5.101	101	2373	0.036	ppbv	98
85) 1,2-Dichloroethane(sim)	7.290	62	1190	0.038	ppbv#	75
86) 1,1,1-Trichloroethane(...)	7.417	97	1378	0.033	ppbv#	89
87) Carbon Tetrachloride(sim)	7.696	117	962	0.038	ppbv#	66
88) 1,1-Dichloroethene(sim)	5.563	61	1379	0.037	ppbv#	72
89) Trichlorotrifluoroetha...	5.810	101	1151	0.035	ppbv	97
90) Trans-1,2-Dichloroethe...	6.226	61	1183	0.038	ppbv#	79
91) 1,1-Dichloroethane(sim)	6.338	63	1195	0.035	ppbv#	77
92) Cis-1,2-Dichloroethene...	6.781	61	1069	0.036	ppbv#	79
93) Chloroform(sim)	6.933	83	1321	0.036	ppbv#	89
95) 1,2-dichloropropane(sim)	8.009	63	463	0.031	ppbv#	71
96) Bromdichloromethane(sim)	8.088	85	680	0.032	ppbv#	60
97) Trichloroethene(sim)	8.114	130	781m	0.043	ppbv	91
98) 1,4-Dioxane(sim)	8.122	88	337	0.041	ppbv#	78
99) cis-1,3-Dichloropropen...	8.492	75	450	0.028	ppbv#	89
100) 1,1,2-Trichloroethane(...)	8.818	97	635	0.037	ppbv	94
101) Dibromchloromethane(sim)	9.155	129	709m	0.035	ppbv	83
102) 1,2-Dibromethane(EDB)...	9.282	107	878	0.033	ppbv	98
103) Tetrachloroethene(sim)	9.500	166	913m	0.046	ppbv	72
105) Bromform(sim)	10.167	173	444m	0.036	ppbv	51
107) 1,1,2,2-Tetrachloroeth...	10.341	83	1146m	0.042	ppbv	88
111) 1,3-Dichlorobenzene(sim)	11.411	146	828m	0.033	ppbv	85
112) 1,4-Dichlorobenzene(sim)	11.449	146	757	0.026	ppbv	95
115) 1,2-Dichlorobenzene(sim)	11.659	146	713	0.031	ppbv	94
119) Hexachlorobutadiene(sim)	13.097	225	638m	0.054	ppbv	83

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

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM20\04APR\09\
 Data File : 0409_05.D
 Acq On : 09 Apr 2019 08:22 am
 Operator : CORTEX.ms
 Client ID : ICAL 0.035
 Lab ID : 0.035
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 09 10:34:42 2019
 Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_0409.M
 Quant Title : VOA Standards for 5 point calibration
 Last Update : Tue Apr 09 10:33:33 2019
 Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM20\04APR\09\
 Data File : 0409_06.D
 Acq On : 09 Apr 2019 08:59 am
 Operator : CORTEX\ns
 Client ID : ICAL 0.05
 Lab ID : 0.05
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 09 10:36:17 2019
 Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_0409.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Tue Apr 09 10:35:23 2019
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
Internal Standards						
1) Bromchloromethane	6.879	130	143771	10.000	ng	0.00
36) 1,4-Difluorobenzene	7.780	114	442046	10.000	ng	0.00
53) Chlorobenzene-d5	9.815	82	205019	10.000	ng	# 0.00
80) Bromchloromethane(sim)	6.882	130	193754	10.000	ng	# 0.00
94) 1,4-Difluorobenzene(sim)	7.783	114	505626	10.000	ng	0.00
104) Chlorobenzene-d5(sim)	9.810	82	206756	10.000	ng	# 0.00

System Monitoring Compounds						
62) % Bromfluorobenzene	10.596	95	267694	0.000	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	0.00%#

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propylene	3.622	41	911	0.054	ppbv	96
3) Dichlorodifluoromethane	3.695	85	1931	0.052	ppbv#	89
4) Chloromethane	3.849	50	1035	0.067	ppbv#	53
5) 1,2-Dichlorotetrafluor...	3.938	85	2122	0.059	ppbv#	80
6) Vinyl Chloride	4.044	62	869	0.058	ppbv#	58
7) 1,3-Butadiene	4.173	54	728	0.058	ppbv#	79
8) Bromomethane	4.392	94	808	0.065	ppbv#	77
9) Chloroethane	4.546	64	329	0.047	ppbv#	46
11) Ethanol	4.676	45	385	0.062	ppbv#	41
12) Acetone	5.049	43	2421	0.075	ppbv#	88
13) Trichlorofluoromethane	5.122	101	2613	0.054	ppbv#	95
14) Isopropylalcohol	5.236	45	2209	0.065	ppbv#	82
15) Acrylonitrile	5.370	53	782	0.093	ppbv#	61
16) 1,1-Dichloroethene	5.590	61	1500	0.052	ppbv#	75
17) Methylene Chloride	5.667	49	1938	0.090	ppbv#	52
20) Carbon Disulfide	5.876	76	2639	0.084	ppbv#	74
21) Trichlorotrifluoroethane	5.834	101	1662	0.058	ppbv#	89
22) Trans-1,2-Dichloroethene	6.244	61	1200	0.049	ppbv#	85
23) 1,1-Dichloroethane	6.359	63	1670	0.055	ppbv	83
24) Methyl tert-butyl ethe...	6.416	73	1753	0.047	ppbv#	61
25) Methyl Ethyl Ketone	6.589	43	2117	0.052	ppbv#	63
26) Cis-1,2-Dichloroethene	6.794	61	1281	0.054	ppbv#	62
27) Hexane	6.887	57	1288	0.055	ppbv#	84
28) Chloroform	6.941	83	1831	0.055	ppbv#	72
29) Ethyl acetate	6.794	61	1281	0.284	ppbv#	13
30) Tetrahydrofuran	7.173	42	931	0.055	ppbv#	45
31) 1,2-Dichloroethane	7.297	62	1596	0.056	ppbv#	86
32) 1,1,1-Trichloroethane	7.421	97	1467	0.045	ppbv#	86
33) Benzene	7.636	78	1785	0.057	ppbv#	89
34) Carbon Tetrachloride	7.704	117	1144	0.042	ppbv	85
35) Cyclohexane	7.772	41	635	0.050	ppbv#	1
37) 1,2-dichloropropane	8.009	63	700	0.049	ppbv#	75
38) Bromdichloromethane	8.094	83	1139	0.039	ppbv	78
39) Trichloroethene	8.111	130	781	0.047	ppbv	95
41) 1,4-Dioxane	8.128	88	265	0.038	ppbv#	16
43) Heptane	8.221	43	935	0.042	ppbv#	68
44) cis-1,3-Dichloropropene	8.492	75	689	0.038	ppbv	70
45) 4-Methyl-2-pentanone(M..	8.500	43	1189	0.039	ppbv#	73
46) trans-1,3-Dichloropropene	8.723	75	538	0.031	ppbv#	58
47) 1,1,2-Trichloroethane	8.815	97	839	0.060	ppbv	95
48) Toluene	8.948	91	1552	0.043	ppbv#	99
49) Dibromchloromethane	9.160	129	732	0.034	ppbv	99
50) 2-Hexanone (MBK)	9.054	43	917	0.033	ppbv#	78
51) 1,2-Dibromethane (EDB)	9.279	107	977	0.041	ppbv	88

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM20\04APR\09\
 Data File : 0409_06.D
 Acq On : 09 Apr 2019 08:59 am
 Operator : CORTEX\ms
 Client ID : ICAL 0.05
 Lab ID : 0.05
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 09 10:36:17 2019
 Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_0409.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Tue Apr 09 10:35:23 2019
 Response via : Initial Calibration

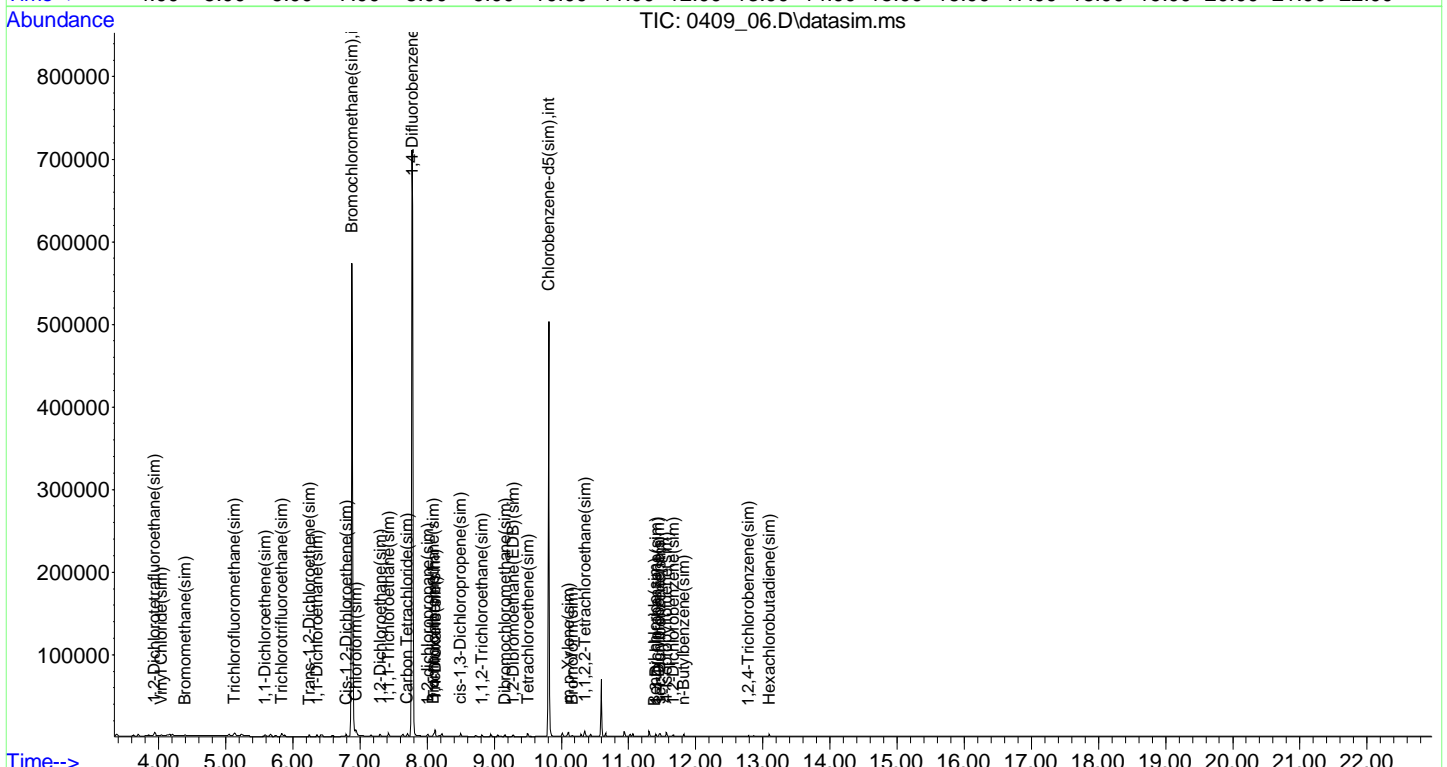
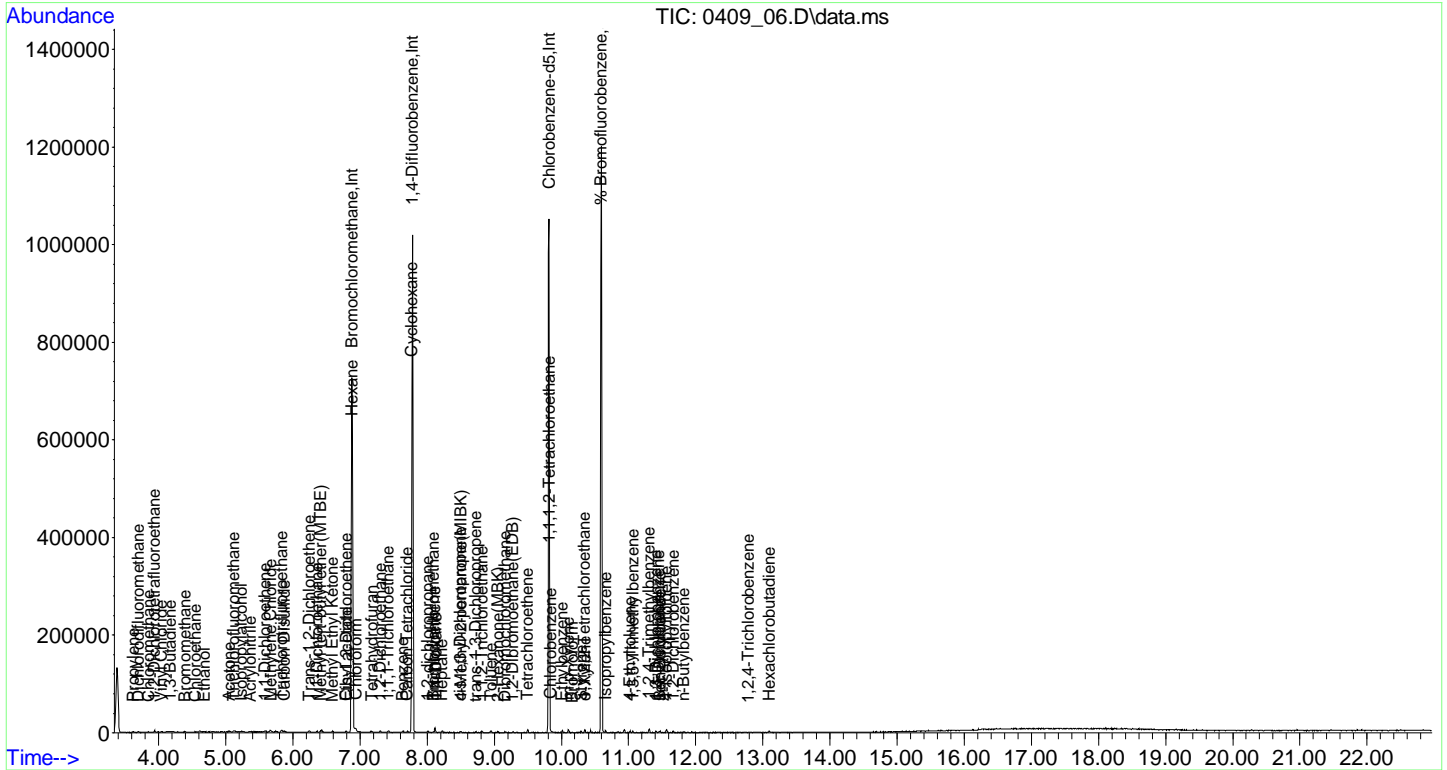
Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
52) Tetrachloroethene	9.497	166	875	0.050	ppbv#	78
54) 1,1,1,2-Tetrachloroethane	9.822	131	486	0.031	ppbv#	92
55) Chlorobenzene	9.838	112	1526	0.049	ppbv#	1
56) Ethylbenzene	10.012	91	2235	0.046	ppbv	94
57) m p-Xylene	10.103	91	3412	0.092	ppbv#	91
58) Bromform	10.164	173	414	0.031	ppbv#	44
60) 1,1,2,2-Tetrachloroethane	10.346	83	1176	0.042	ppbv#	86
61) o-Xylene	10.353	91	1567	0.040	ppbv#	91
64) Isopropylbenzene	10.656	105	2375	0.047	ppbv	93
66) 4-Ethyltoluene	11.021	105	1762	0.034	ppbv	97
67) 1,3,5-Trimethylbenzene	11.066	105	1763	0.040	ppbv#	86
68) 1,2,4-Trimethylbenzene	11.309	105	1326	0.031	ppbv	92
71) 1,3-Dichlorobenzene	11.408	146	1010	0.035	ppbv	88
72) 1,4-Dichlorobenzene	11.453	146	744	0.026	ppbv#	85
73) sec-Butylbenzene	11.469	105	2173	0.036	ppbv	95
74) 4-Isopropyltoluene	11.560	119	1808	0.034	ppbv	97
75) 1,2-Dichlorobenzene	11.666	146	945	0.035	ppbv	91
76) n-Butylbenzene	11.826	91	1312	0.028	ppbv#	87
79) Hexachlorobutadiene	13.094	225	670	0.058	ppbv#	59
81) 1,2-Dichlorotetrafluor...	3.938	85	2122	0.054	ppbv#	80
82) Vinyl Chloride(sim)	4.046	62	934	0.050	ppbv	99
83) Bromomethane(sim)	4.395	94	895m	0.058	ppbv	77
84) Trichlorofluoromethane...	5.133	101	3282	0.051	ppbv	99
85) 1,2-Dichloroethane(sim)	7.297	62	1596	0.051	ppbv#	86
86) 1,1,1-Trichloroethane(...)	7.424	97	1990	0.048	ppbv#	92
87) Carbon Tetrachloride(sim)	7.704	117	1144	0.045	ppbv#	85
88) 1,1-Dichloroethene(sim)	5.587	61	1870	0.051	ppbv#	70
89) Trichlorotrifluoroetha...	5.834	101	1662	0.051	ppbv	96
90) Trans-1,2-Dichloroethe...	6.242	61	1559	0.050	ppbv#	80
91) 1,1-Dichloroethane(sim)	6.359	63	1670	0.049	ppbv#	83
92) Cis-1,2-Dichloroethene...	6.797	61	1471	0.050	ppbv#	75
93) Chloroform(sim)	6.941	83	1831	0.050	ppbv#	72
95) 1,2-dichloropropane(sim)	8.012	63	862m	0.057	ppbv	75
96) Bromdichloromethane(sim)	8.097	85	1011	0.048	ppbv	97
97) Trichloroethene(sim)	8.114	130	1053m	0.058	ppbv	91
98) 1,4-Dioxane(sim)	8.122	88	373	0.046	ppbv#	65
99) cis-1,3-Dichloropropen...	8.492	75	689	0.043	ppbv#	70
100) 1,1,2-Trichloroethane(...)	8.818	97	811	0.047	ppbv	88
101) Dibromochloromethane(sim)	9.162	129	1030m	0.051	ppbv	99
102) 1,2-Dibromomethane(EDB)...	9.282	107	1244	0.047	ppbv	97
103) Tetrachloroethene(sim)	9.500	166	1220m	0.061	ppbv	84
105) Bromform(sim)	10.166	173	614m	0.050	ppbv	51
106) m p-Xylene(sim)	10.106	91	3559	0.098	ppbv	94
107) 1,1,2,2-Tetrachloroeth...	10.346	83	1176	0.043	ppbv#	88
110) Benzyl chloride(sim)	11.396	91	411	0.052	ppbv	92
111) 1,3-Dichlorobenzene(sim)	11.408	146	1010	0.040	ppbv	88
112) 1,4-Dichlorobenzene(sim)	11.449	146	1050	0.036	ppbv	96
113) sec-Butylbenzene(sim)	11.469	105	2173	0.045	ppbv	95
114) 4-Isopropyltoluene(sim)	11.563	119	1813	0.049	ppbv#	91
115) 1,2-Dichlorobenzene(sim)	11.666	146	945	0.040	ppbv	91
116) n-Butylbenzene(sim)	11.821	91	1379	0.050	ppbv	91
117) 1,2,4-Trichlorobenzene...	12.785	180	359m	0.047	ppbv	65
119) Hexachlorobutadiene(sim)	13.094	225	601	0.050	ppbv#	64

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

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM20\04APR\09\
 Data File : 0409_06.D
 Acq On : 09 Apr 2019 08:59 am
 Operator : CORTEX.ms
 Client ID : ICAL 0.05
 Lab ID : 0.05
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 09 10:36:17 2019
 Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_0409.M
 Quant Title : VOA Standards for 5 point calibration
 Last Update : Tue Apr 09 10:35:23 2019
 Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM20\04APR\09\
 Data File : 0409_07.D
 Acq On : 09 Apr 2019 09:36 am
 Operator : CORTEX\ms
 Client ID : ICAL 0.1
 Lab ID : 0.10
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 09 10:37:13 2019
 Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_0409.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Tue Apr 09 10:36:27 2019
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
Internal Standards						
1) Bromchloromethane	6.879	130	142350	10.000	ng	0.00
36) 1,4-Difluorobenzene	7.772	114	434094	10.000	ng	0.00
53) Chlorobenzene-d5	9.807	82	200331	10.000	ng	# 0.00
80) Bromchloromethane(sim)	6.882	130	192013	10.000	ng	# 0.00
94) 1,4-Difluorobenzene(sim)	7.775	114	498339	10.000	ng	0.00
104) Chlorobenzene-d5(sim)	9.810	82	205684	10.000	ng	# 0.00

System Monitoring Compounds						
62) % Bromfluorobenzene	10.596	95	267230	0.000	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	0.00%#

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propylene	3.606	41	1604	0.096	ppbv	91
3) Dichlorodifluoromethane	3.679	85	4132	0.113	ppbv#	91
4) Chloromethane	3.833	50	1495	0.098	ppbv	91
5) 1,2-Dichlorotetrafluor...	3.930	85	3639	0.102	ppbv	97
6) Vinyl Chloride	4.027	62	1405	0.095	ppbv	89
7) 1,3-Butadiene	4.149	54	1330	0.107	ppbv#	81
8) Bromomethane	4.376	94	1559	0.126	ppbv#	80
9) Chloroethane	4.522	64	747	0.107	ppbv	87
11) Ethanol	4.660	45	807	0.132	ppbv#	70
12) Acetone	5.041	43	4084	0.128	ppbv#	84
13) Trichlorofluoromethane	5.122	101	5201	0.109	ppbv	98
14) Isopropylalcohol	5.220	45	3731	0.111	ppbv#	90
15) Acrylonitrile	5.341	53	755	0.091	ppbv#	77
16) 1,1-Dichloroethene	5.578	61	2953	0.103	ppbv#	79
17) Methylene Chloride	5.655	49	2440	0.114	ppbv#	66
20) Carbon Disulfide	5.864	76	3546	0.114	ppbv#	86
21) Trichlorotrifluoroethane	5.822	101	2850	0.101	ppbv	92
22) Trans-1,2-Dichloroethene	6.234	61	2395	0.098	ppbv#	83
23) 1,1-Dichloroethane	6.349	63	3306	0.110	ppbv	94
24) Methyl tert-butyl ethe...	6.401	73	3412	0.092	ppbv#	63
25) Methyl Ethyl Ketone	6.583	43	3986	0.100	ppbv#	73
26) Cis-1,2-Dichloroethene	6.786	61	2506	0.107	ppbv#	71
27) Hexane	6.887	57	2282	0.099	ppbv#	73
28) Chloroform	6.933	83	3808	0.115	ppbv#	79
29) Ethyl acetate	6.786	61	2506	0.560	ppbv#	13
30) Tetrahydrofuran	7.158	42	1377	0.082	ppbv#	64
31) 1,2-Dichloroethane	7.297	62	2798	0.099	ppbv#	88
32) 1,1,1-Trichloroethane	7.421	97	2980	0.092	ppbv#	86
33) Benzene	7.636	78	3188	0.102	ppbv#	80
34) Carbon Tetrachloride	7.704	117	2082	0.077	ppbv	93
35) Cyclohexane	7.763	41	1240	0.099	ppbv#	1
37) 1,2-dichloropropane	8.009	63	1436	0.103	ppbv#	78
38) Bromdichloromethane	8.094	83	2265	0.080	ppbv	95
39) Trichloroethene	8.111	130	1349	0.083	ppbv#	67
41) 1,4-Dioxane	8.119	88	476	0.070	ppbv#	27
43) Heptane	8.221	43	2061	0.094	ppbv#	66
44) cis-1,3-Dichloropropene	8.492	75	1187	0.067	ppbv	89
45) 4-Methyl-2-pentanone(M..	8.500	43	2457	0.082	ppbv#	80
46) trans-1,3-Dichloropropene	8.723	75	1299	0.076	ppbv#	83
47) 1,1,2-Trichloroethane	8.815	97	1259	0.092	ppbv#	90
48) Toluene	8.948	91	3356	0.094	ppbv	96
49) Dibromchloromethane	9.160	129	1669	0.079	ppbv#	92
50) 2-Hexanone (MBK)	9.047	43	2104	0.077	ppbv#	77
51) 1,2-Dibromethane (EDB)	9.279	107	1886	0.081	ppbv	94

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM20\04APR\09\
 Data File : 0409_07.D
 Acq On : 09 Apr 2019 09:36 am
 Operator : CORTEX\ms
 Client ID : ICAL 0.1
 Lab ID : 0.10
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 09 10:37:13 2019
 Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_0409.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Tue Apr 09 10:36:27 2019
 Response via : Initial Calibration

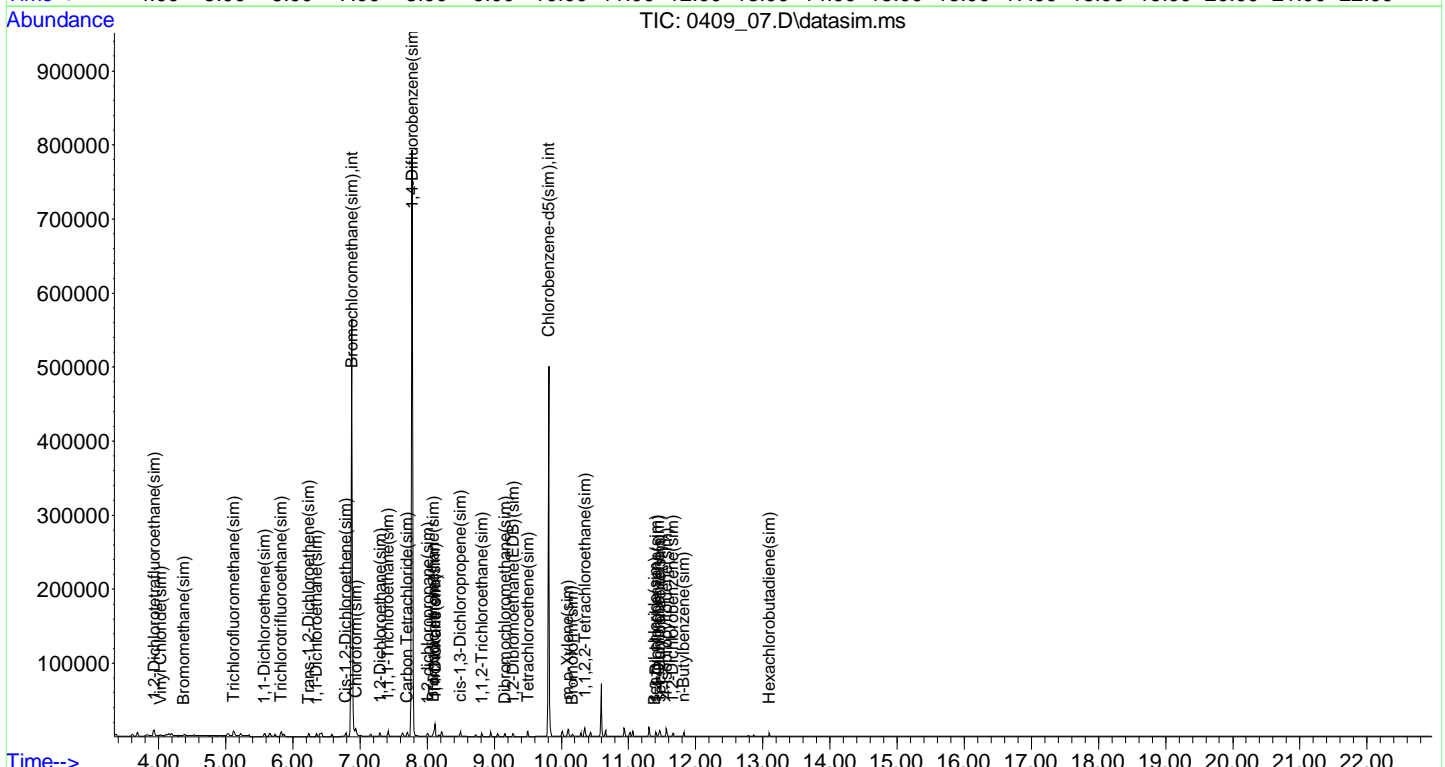
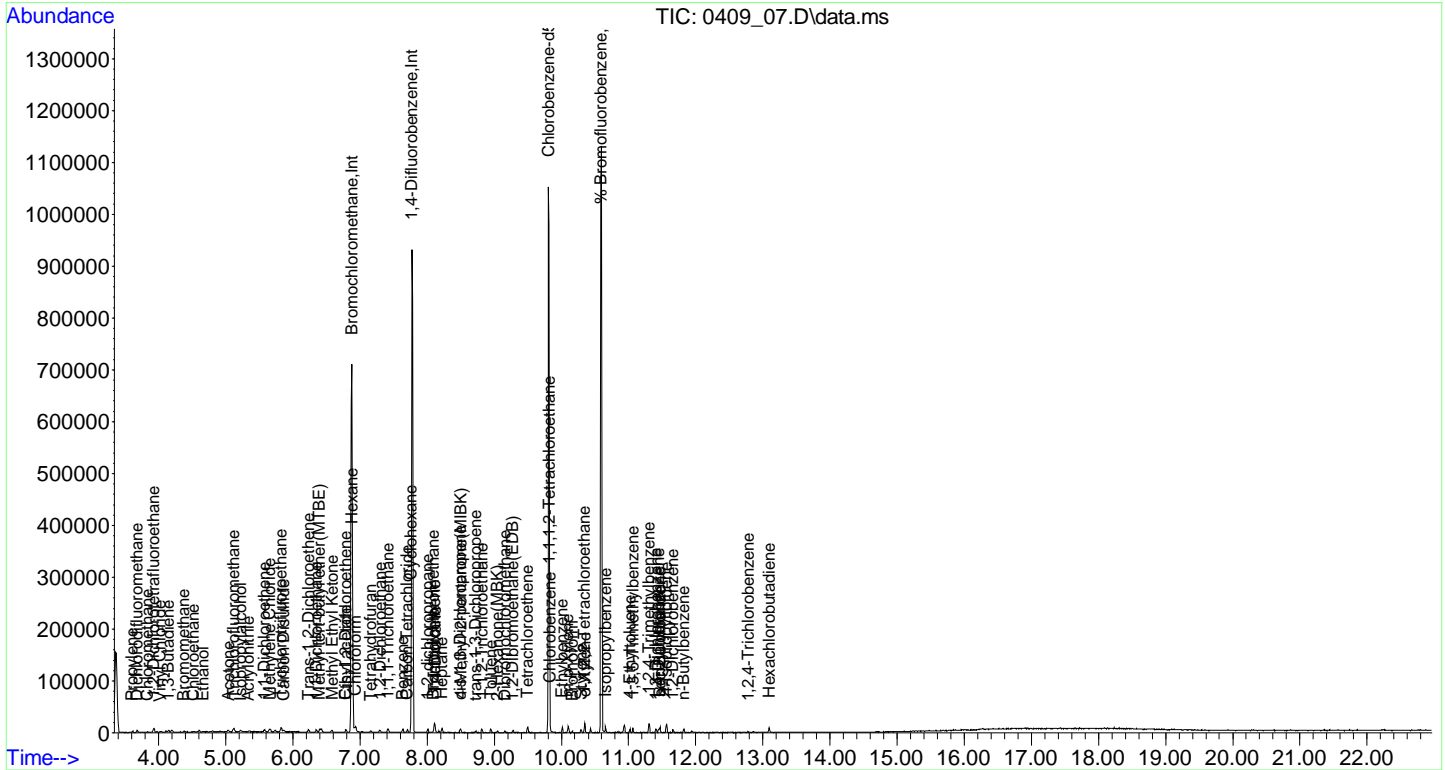
Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
52) Tetrachloroethene	9.497	166	1583	0.092	ppbv#	84
54) 1,1,1,2-Tetrachloroethane	9.822	131	982	0.064	ppbv	95
55) Chlorobenzene	9.830	112	2976	0.097	ppbv#	1
56) Ethylbenzene	10.012	91	4436	0.093	ppbv	91
57) m p-Xylene	10.095	91	6461	0.178	ppbv	93
58) Bromoform	10.164	173	791	0.061	ppbv	94
60) 1,1,2,2-Tetrachloroethane	10.346	83	2634	0.097	ppbv	89
61) o-Xylene	10.353	91	3459	0.091	ppbv#	95
64) Isopropylbenzene	10.656	105	4757	0.095	ppbv	93
66) 4-Ethyltoluene	11.021	105	3664	0.073	ppbv	99
67) 1,3,5-Trimethylbenzene	11.066	105	3517	0.081	ppbv	93
68) 1,2,4-Trimethylbenzene	11.309	105	2861	0.068	ppbv#	92
71) 1,3-Dichlorobenzene	11.408	146	1922	0.068	ppbv	94
72) 1,4-Dichlorobenzene	11.453	146	2072	0.075	ppbv	95
73) sec-Butylbenzene	11.469	105	4463	0.076	ppbv	95
74) 4-Isopropyltoluene	11.560	119	3752	0.073	ppbv#	90
75) 1,2-Dichlorobenzene	11.658	146	1909	0.071	ppbv	94
76) n-Butylbenzene	11.826	91	2888	0.062	ppbv#	83
79) Hexachlorobutadiene	13.094	225	950	0.085	ppbv#	82
81) 1,2-Dichlorotetrafluor...	3.930	85	3639	0.093	ppbv	97
82) Vinyl Chloride(sim)	4.030	62	1851	0.100	ppbv	96
83) Bromomethane(sim)	4.376	94	1559	0.101	ppbv#	80
84) Trichlorofluoromethane...	5.117	101	6521	0.102	ppbv	98
85) 1,2-Dichloroethane(sim)	7.297	62	2798	0.090	ppbv#	88
86) 1,1,1-Trichloroethane(...)	7.417	97	3926	0.096	ppbv#	91
87) Carbon Tetrachloride(sim)	7.704	117	2082	0.083	ppbv	96
88) 1,1-Dichloroethene(sim)	5.575	61	3628	0.100	ppbv#	71
89) Trichlorotrifluoroetha...	5.822	101	2850	0.089	ppbv	93
90) Trans-1,2-Dichloroethe...	6.237	61	2958	0.096	ppbv#	81
91) 1,1-Dichloroethane(sim)	6.349	63	3306	0.098	ppbv#	94
92) Cis-1,2-Dichloroethene...	6.789	61	2788	0.096	ppbv#	77
93) Chloroform(sim)	6.933	83	3808	0.105	ppbv#	79
95) 1,2-dichloropropane(sim)	8.009	63	1436	0.097	ppbv#	78
96) Bromdichloromethane(sim)	8.097	85	1953	0.094	ppbv	96
97) Trichloroethene(sim)	8.111	130	1349	0.075	ppbv#	68
98) 1,4-Dioxane(sim)	8.122	88	738	0.092	ppbv#	68
99) cis-1,3-Dichloropropen...	8.492	75	1187	0.076	ppbv#	89
100) 1,1,2-Trichloroethane(...)	8.818	97	1658	0.098	ppbv	93
101) Dibromochloromethane(sim)	9.160	129	1669	0.084	ppbv	94
102) 1,2-Dibromomethane(EDB)...	9.282	107	2481	0.095	ppbv	97
103) Tetrachloroethene(sim)	9.497	166	1583	0.081	ppbv#	84
105) Bromoform(sim)	10.164	173	791	0.064	ppbv	94
106) m p-Xylene(sim)	10.098	91	7089	0.200	ppbv	93
107) 1,1,2,2-Tetrachloroeth...	10.346	83	2634	0.097	ppbv#	93
110) Benzyl chloride(sim)	11.396	91	845	0.100	ppbv	92
111) 1,3-Dichlorobenzene(sim)	11.408	146	1922	0.076	ppbv	94
112) 1,4-Dichlorobenzene(sim)	11.449	146	2477	0.085	ppbv	95
113) sec-Butylbenzene(sim)	11.469	105	4462	0.100	ppbv	95
114) 4-Isopropyltoluene(sim)	11.563	119	3769	0.100	ppbv	92
115) 1,2-Dichlorobenzene(sim)	11.658	146	1909	0.082	ppbv	94
116) n-Butylbenzene(sim)	11.821	91	2935	0.100	ppbv	93
119) Hexachlorobutadiene(sim)	13.094	225	950	0.080	ppbv#	82

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

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM20\04APR\09\
 Data File : 0409_07.D
 Acq On : 09 Apr 2019 09:36 am
 Operator : CORTEX.ms
 Client ID : ICAL 0.1
 Lab ID : 0.10
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 09 10:37:13 2019
 Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_0409.M
 Quant Title : VOA Standards for 5 point calibration
 Last Update : Tue Apr 09 10:36:27 2019
 Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM20\04APR\09\
 Data File : 0409_08.D
 Acq On : 09 Apr 2019 10:16 am
 Operator : CORTEX\ms
 Client ID : ICAL 0.5
 Lab ID : 0.50
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 09 15:42:20 2019
 Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_0409.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Tue Apr 09 10:37:24 2019
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
Internal Standards						
1) Bromchloromethane	6.871	130	140216	10.000	ng	0.00
36) 1,4-Difluorobenzene	7.772	114	430790	10.000	ng	0.00
53) Chlorobenzene-d5	9.807	82	199872	10.000	ng	# 0.00
80) Bromchloromethane(sim)	6.874	130	189087	10.000	ng	# 0.00
94) 1,4-Difluorobenzene(sim)	7.775	114	494232	10.000	ng	0.00
104) Chlorobenzene-d5(sim)	9.810	82	205493	10.000	ng	# 0.00

System Monitoring Compounds						
62) % Bromfluorobenzene	10.596	95	270657	0.000	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	0.00%#

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propylene	3.606	41	8120	0.492	ppbv	97
3) Dichlorodifluoromethane	3.670	85	17626	0.490	ppbv#	93
4) Chloromethane	3.825	50	7815	0.520	ppbv	95
5) 1,2-Dichlorotetrafluor...	3.914	85	18656	0.533	ppbv	92
6) Vinyl Chloride	4.019	62	7364	0.505	ppbv	91
7) 1,3-Butadiene	4.141	54	6029	0.490	ppbv#	79
8) Bromomethane	4.376	94	5907	0.484	ppbv#	93
9) Chloroethane	4.522	64	3640	0.532	ppbv	79
11) Ethanol	4.652	45	3108	0.515	ppbv#	90
12) Acetone	5.017	43	16604	0.530	ppbv#	85
13) Trichlorofluoromethane	5.114	101	24516	0.521	ppbv	100
14) Isopropylalcohol	5.212	45	17017	0.515	ppbv#	95
15) Acrylonitrile	5.341	53	4764	0.583	ppbv	97
16) 1,1-Dichloroethene	5.566	61	14438	0.511	ppbv#	74
17) Methylene Chloride	5.649	49	10642	0.506	ppbv#	57
20) Carbon Disulfide	5.858	76	16266	0.529	ppbv	97
21) Trichlorotrifluoroethane	5.822	101	15038	0.541	ppbv#	87
22) Trans-1,2-Dichloroethene	6.229	61	11497	0.479	ppbv#	82
23) 1,1-Dichloroethane	6.349	63	14608	0.492	ppbv	95
24) Methyl tert-butyl ethe...	6.390	73	16858	0.461	ppbv#	63
25) Methyl Ethyl Ketone	6.568	43	19485	0.494	ppbv#	76
26) Cis-1,2-Dichloroethene	6.786	61	11038	0.479	ppbv#	73
27) Hexane	6.879	57	10989	0.485	ppbv#	72
28) Chloroform	6.933	83	16452	0.505	ppbv	90
29) Ethyl acetate	6.887	61	1875m	0.426	ppbv	13
30) Tetrahydrofuran	7.150	42	7614	0.459	ppbv#	60
31) 1,2-Dichloroethane	7.297	62	13567	0.488	ppbv#	89
32) 1,1,1-Trichloroethane	7.414	97	14960	0.470	ppbv#	90
33) Benzene	7.636	78	14660	0.477	ppbv#	84
34) Carbon Tetrachloride	7.704	117	10114	0.381	ppbv	96
35) Cyclohexane	7.764	41	6462	0.523	ppbv#	1
37) 1,2-dichloropropane	8.009	63	6678	0.482	ppbv#	77
38) Bromdichloromethane	8.094	83	12217	0.433	ppbv	98
39) Trichloroethene	8.111	130	7709	0.477	ppbv	93
41) 1,4-Dioxane	8.111	88	3021	0.449	ppbv#	63
43) Heptane	8.221	43	9715	0.447	ppbv#	70
44) cis-1,3-Dichloropropene	8.492	75	6984	0.398	ppbv	94
45) 4-Methyl-2-pentanone(M..	8.500	43	12945	0.435	ppbv#	83
46) trans-1,3-Dichloropropene	8.723	75	6343	0.374	ppbv	96
47) 1,1,2-Trichloroethane	8.815	97	6522	0.479	ppbv	96
48) Toluene	8.948	91	14702	0.416	ppbv#	94
49) Dibromchloromethane	9.160	129	8146	0.390	ppbv	98
50) 2-Hexanone (MBK)	9.047	43	10728	0.396	ppbv#	86
51) 1,2-Dibromethane (EDB)	9.279	107	9918	0.432	ppbv	93

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM20\04APR\09\
 Data File : 0409_08.D
 Acq On : 09 Apr 2019 10:16 am
 Operator : CORTEX\ms
 Client ID : ICAL 0.5
 Lab ID : 0.50
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 09 15:42:20 2019
 Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_0409.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Tue Apr 09 10:37:24 2019
 Response via : Initial Calibration

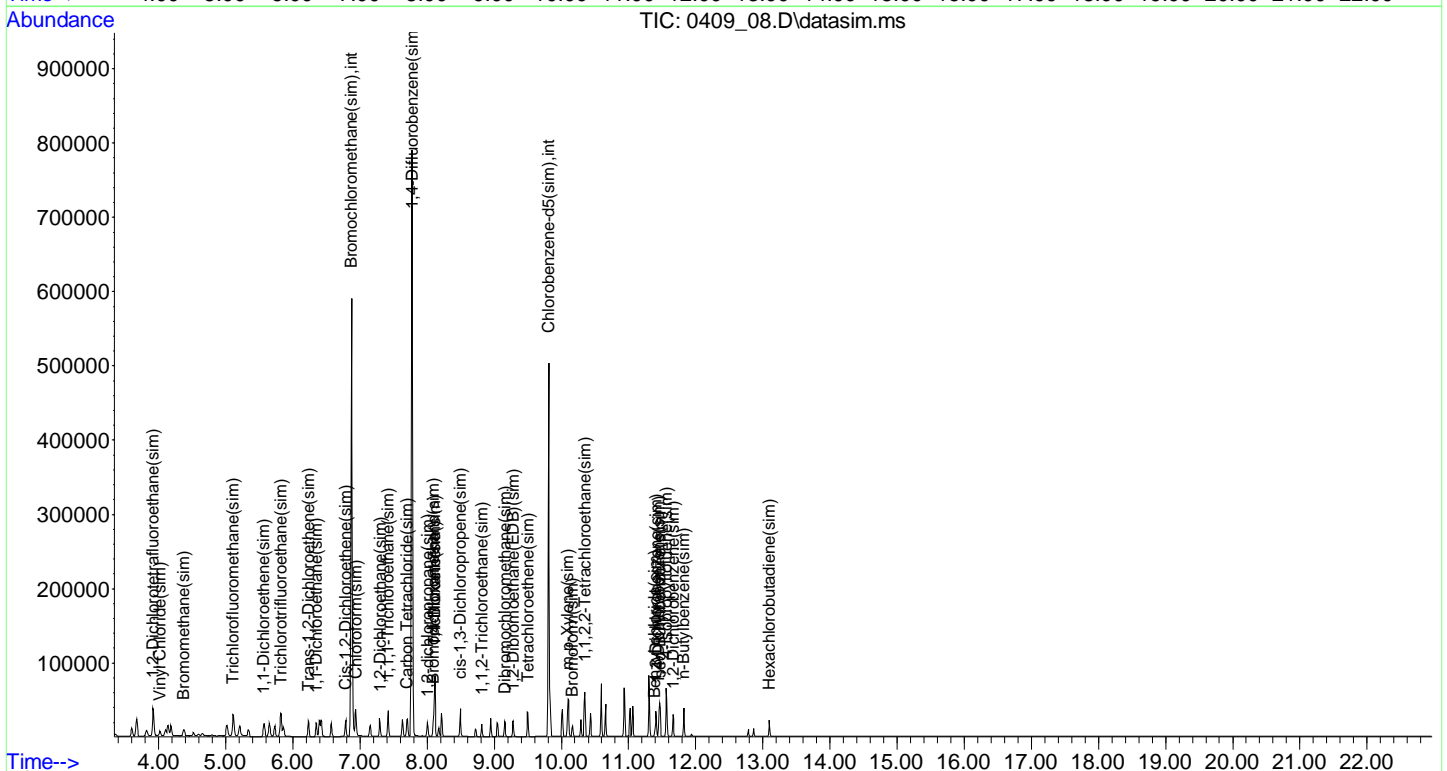
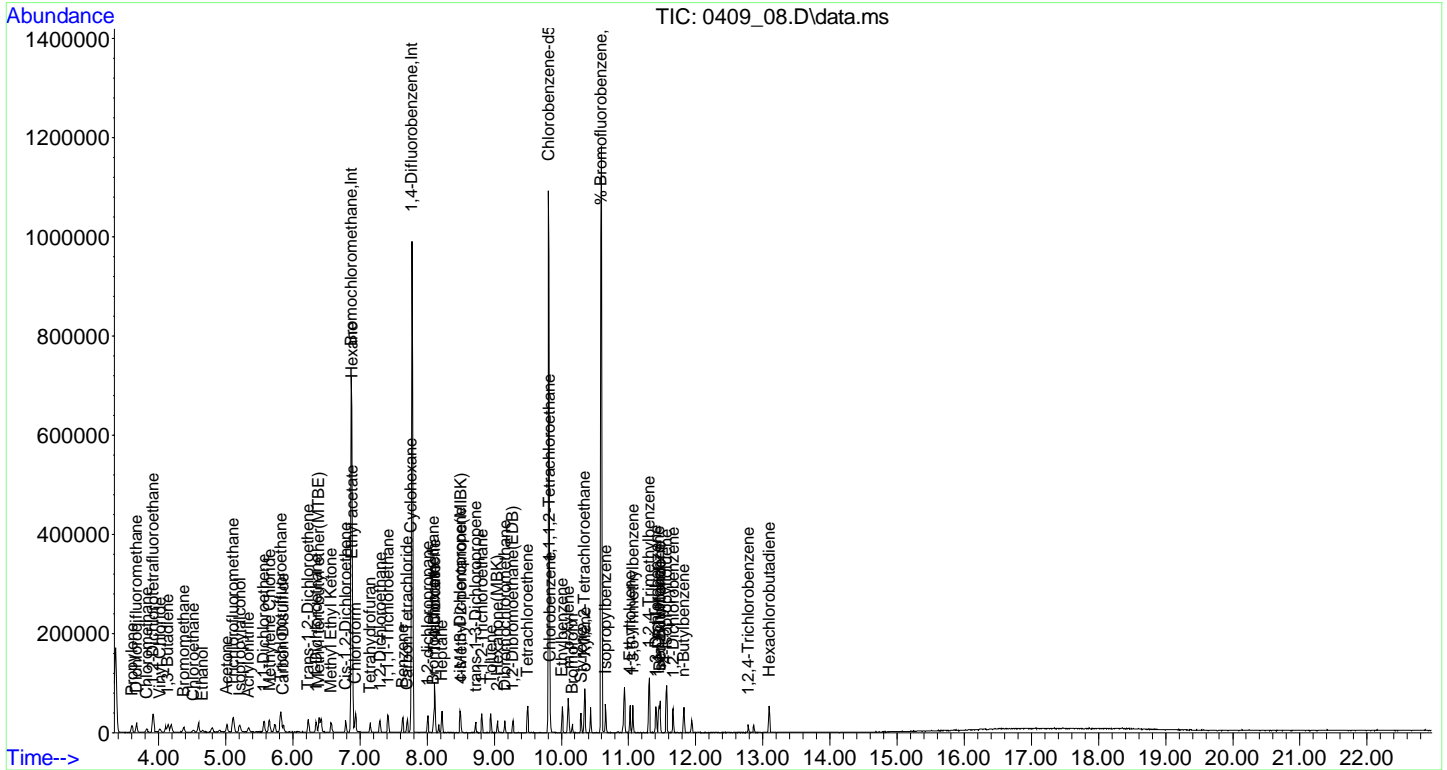
Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
52) Tetrachloroethene	9.497	166	7771	0.454	ppbv#	84
54) 1,1,1,2-Tetrachloroethane	9.822	131	5669	0.369	ppbv	94
55) Chlorobenzene	9.830	112	15062	0.493	ppbv#	73
56) Ethylbenzene	10.012	91	21276	0.449	ppbv	96
57) m p-Xylene	10.103	91	34844	0.964	ppbv	94
58) Bromoform	10.164	173	4876	0.379	ppbv	96
60) 1,1,2,2-Tetrachloroethane	10.346	83	12636	0.466	ppbv#	89
61) o-Xylene	10.353	91	18019	0.477	ppbv	91
64) Isopropylbenzene	10.656	105	23212	0.467	ppbv	96
66) 4-Ethyltoluene	11.021	105	21855	0.437	ppbv	98
67) 1,3,5-Trimethylbenzene	11.066	105	19158	0.444	ppbv#	97
68) 1,2,4-Trimethylbenzene	11.309	105	18843	0.447	ppbv#	90
71) 1,3-Dichlorobenzene	11.408	146	12445	0.443	ppbv	94
72) 1,4-Dichlorobenzene	11.453	146	11822	0.429	ppbv	95
73) sec-Butylbenzene	11.469	105	26709	0.454	ppbv#	95
74) 4-Isopropyltoluene	11.560	119	22613	0.441	ppbv#	91
75) 1,2-Dichlorobenzene	11.666	146	11804	0.442	ppbv#	95
76) n-Butylbenzene	11.826	91	17945	0.388	ppbv#	93
79) Hexachlorobutadiene	13.094	225	4709	0.421	ppbv	99
81) 1,2-Dichlorotetrafluor...	3.914	85	18656	0.485	ppbv	92
82) Vinyl Chloride(sim)	4.022	62	8440	0.463	ppbv	96
83) Bromomethane(sim)	4.376	94	5907	0.389	ppbv#	93
84) Trichlorofluoromethane...	5.109	101	29705	0.471	ppbv	99
85) 1,2-Dichloroethane(sim)	7.297	62	13567	0.444	ppbv#	89
86) 1,1,1-Trichloroethane(...)	7.417	97	19114	0.476	ppbv#	89
87) Carbon Tetrachloride(sim)	7.704	117	10114	0.411	ppbv	96
88) 1,1-Dichloroethene(sim)	5.569	61	16571	0.464	ppbv#	70
89) Trichlorotrifluoroetha...	5.822	101	15038	0.475	ppbv	96
90) Trans-1,2-Dichloroethe...	6.231	61	13822	0.456	ppbv#	79
91) 1,1-Dichloroethane(sim)	6.349	63	14608	0.440	ppbv#	95
92) Cis-1,2-Dichloroethene...	6.789	61	12974	0.454	ppbv#	76
93) Chloroform(sim)	6.933	83	16452	0.459	ppbv#	90
95) 1,2-dichloropropane(sim)	8.009	63	6678	0.455	ppbv#	77
96) Bromdichloromethane(sim)	8.097	85	9416	0.459	ppbv	97
97) Trichloroethene(sim)	8.111	130	7709	0.433	ppbv	94
98) 1,4-Dioxane(sim)	8.114	88	3508	0.442	ppbv#	69
99) cis-1,3-Dichloropropen...	8.492	75	6984	0.450	ppbv	94
100) 1,1,2-Trichloroethane(...)	8.818	97	7807	0.466	ppbv	94
101) Dibromochloromethane(sim)	9.160	129	8146	0.416	ppbv	99
102) 1,2-Dibromomethane(EDB)...	9.282	107	12165	0.469	ppbv	98
103) Tetrachloroethene(sim)	9.497	166	7771	0.400	ppbv#	84
105) Bromoform(sim)	10.164	173	4876	0.398	ppbv	96
106) m p-Xylene(sim)	10.098	91	37286	0.872	ppbv#	93
107) 1,1,2,2-Tetrachloroeth...	10.346	83	12636	0.464	ppbv	99
110) Benzyl chloride(sim)	11.396	91	5208	0.410	ppbv	92
111) 1,3-Dichlorobenzene(sim)	11.408	146	12445	0.490	ppbv	94
112) 1,4-Dichlorobenzene(sim)	11.449	146	14920	0.513	ppbv	95
113) sec-Butylbenzene(sim)	11.469	105	26712	0.644	ppbv	95
114) 4-Isopropyltoluene(sim)	11.563	119	22459	0.344	ppbv#	91
115) 1,2-Dichlorobenzene(sim)	11.666	146	11804	0.508	ppbv	95
116) n-Butylbenzene(sim)	11.821	91	18503	0.375	ppbv	93
119) Hexachlorobutadiene(sim)	13.094	225	4709	0.396	ppbv	99

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

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM20\04APR\09\
Data File : 0409_08.D
Acq On : 09 Apr 2019 10:16 am
Operator : CORTEX.ms
Client ID : ICAL 0.5
Lab ID : 0.50
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 09 15:42:20 2019
Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_0409.M
Quant Title : VOA Standards for 5 point calibration
Last Update : Tue Apr 09 10:37:24 2019
Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM20\04APR\09\
 Data File : 0409_09.D
 Acq On : 09 Apr 2019 10:56 am
 Operator : CORTEX\ms
 Client ID : ICAL 2.5
 Lab ID : 2.5
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 09 11:39:10 2019
 Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_0409.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Tue Apr 09 11:38:59 2019
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
Internal Standards						
1) Bromchloromethane	6.879	130	139560	10.000	ng	0.00
36) 1,4-Difluorobenzene	7.780	114	435952	10.000	ng	0.00
53) Chlorobenzene-d5	9.815	82	202851	10.000	ng	# 0.00
80) Bromchloromethane(sim)	6.882	130	185571	10.000	ng	# 0.00
94) 1,4-Difluorobenzene(sim)	7.775	114	495028	10.000	ng	0.00
104) Chlorobenzene-d5(sim)	9.810	82	206662	10.000	ng	# 0.00

System Monitoring Compounds						
62) % Bromfluorobenzene	10.596	95	276080	10.051	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	100.50%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propylene	3.614	41	40638	2.472	ppbv	95
3) Dichlorodifluoromethane	3.687	85	89744	2.508	ppbv#	95
4) Chloromethane	3.833	50	38025	2.544	ppbv	97
5) 1,2-Dichlorotetrafluor...	3.930	85	92499	2.657	ppbv	93
6) Vinyl Chloride	4.027	62	37805	2.603	ppbv	92
7) 1,3-Butadiene	4.157	54	32511	2.657	ppbv	90
8) Bromomethane	4.384	94	31935	2.627	ppbv#	95
9) Chloroethane	4.530	64	17945	2.633	ppbv	86
11) Ethanol	4.652	45	14960	2.491	ppbv	96
12) Acetone	5.017	43	79107	2.535	ppbv#	86
13) Trichlorofluoromethane	5.122	101	124739	2.665	ppbv	97
14) Isopropylalcohol	5.203	45	83492	2.540	ppbv#	98
15) Acrylonitrile	5.341	53	19222	2.364	ppbv	97
16) 1,1-Dichloroethene	5.578	61	72848	2.589	ppbv#	74
17) Methylene Chloride	5.661	49	52775	2.523	ppbv#	58
20) Carbon Disulfide	5.870	76	78446	2.564	ppbv	98
21) Trichlorotrifluoroethane	5.828	101	71793	2.594	ppbv	89
22) Trans-1,2-Dichloroethene	6.239	61	59538	2.495	ppbv#	81
23) 1,1-Dichloroethane	6.354	63	76634	2.592	ppbv	96
24) Methyl tert-butyl ethe...	6.390	73	90377	2.484	ppbv#	66
25) Methyl Ethyl Ketone	6.568	43	99290	2.529	ppbv#	77
26) Cis-1,2-Dichloroethene	6.794	61	57078	2.491	ppbv#	74
27) Hexane	6.887	57	56736	2.514	ppbv#	80
28) Chloroform	6.941	83	84332	2.599	ppbv	91
29) Ethyl acetate	6.887	61	11032	2.517	ppbv#	75
30) Tetrahydrofuran	7.150	42	40459	2.449	ppbv#	62
31) 1,2-Dichloroethane	7.297	62	71490	2.583	ppbv#	91
32) 1,1,1-Trichloroethane	7.421	97	79177	2.501	ppbv#	92
33) Benzene	7.636	78	80112	2.618	ppbv#	86
34) Carbon Tetrachloride	7.704	117	58075	2.200	ppbv	99
35) Cyclohexane	7.763	41	31479	2.559	ppbv#	55
37) 1,2-dichloropropane	8.009	63	33189	2.366	ppbv#	82
38) Bromdichloromethane	8.094	83	67501	2.364	ppbv	99
39) Trichloroethene	8.111	130	38057	2.325	ppbv#	87
41) 1,4-Dioxane	8.111	88	14992	2.204	ppbv#	60
43) Heptane	8.221	43	53763	2.445	ppbv#	70
44) cis-1,3-Dichloropropene	8.492	75	40873	2.300	ppbv	97
45) 4-Methyl-2-pentanone(M..	8.492	43	73995	2.457	ppbv#	81
46) trans-1,3-Dichloropropene	8.723	75	38757	2.259	ppbv	95
47) 1,1,2-Trichloroethane	8.815	97	32595	2.365	ppbv	92
48) Toluene	8.948	91	83673	2.341	ppbv#	97
49) Dibromchloromethane	9.160	129	51096	2.419	ppbv	97
50) 2-Hexanone (MBK)	9.047	43	62750	2.287	ppbv#	86
51) 1,2-Dibromethane (EDB)	9.279	107	54812	2.358	ppbv	99

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM20\04APR\09\
 Data File : 0409_09.D
 Acq On : 09 Apr 2019 10:56 am
 Operator : CORTEX\ms
 Client ID : ICAL 2.5
 Lab ID : 2.5
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 09 11:39:10 2019
 Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_0409.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Tue Apr 09 11:38:59 2019
 Response via : Initial Calibration

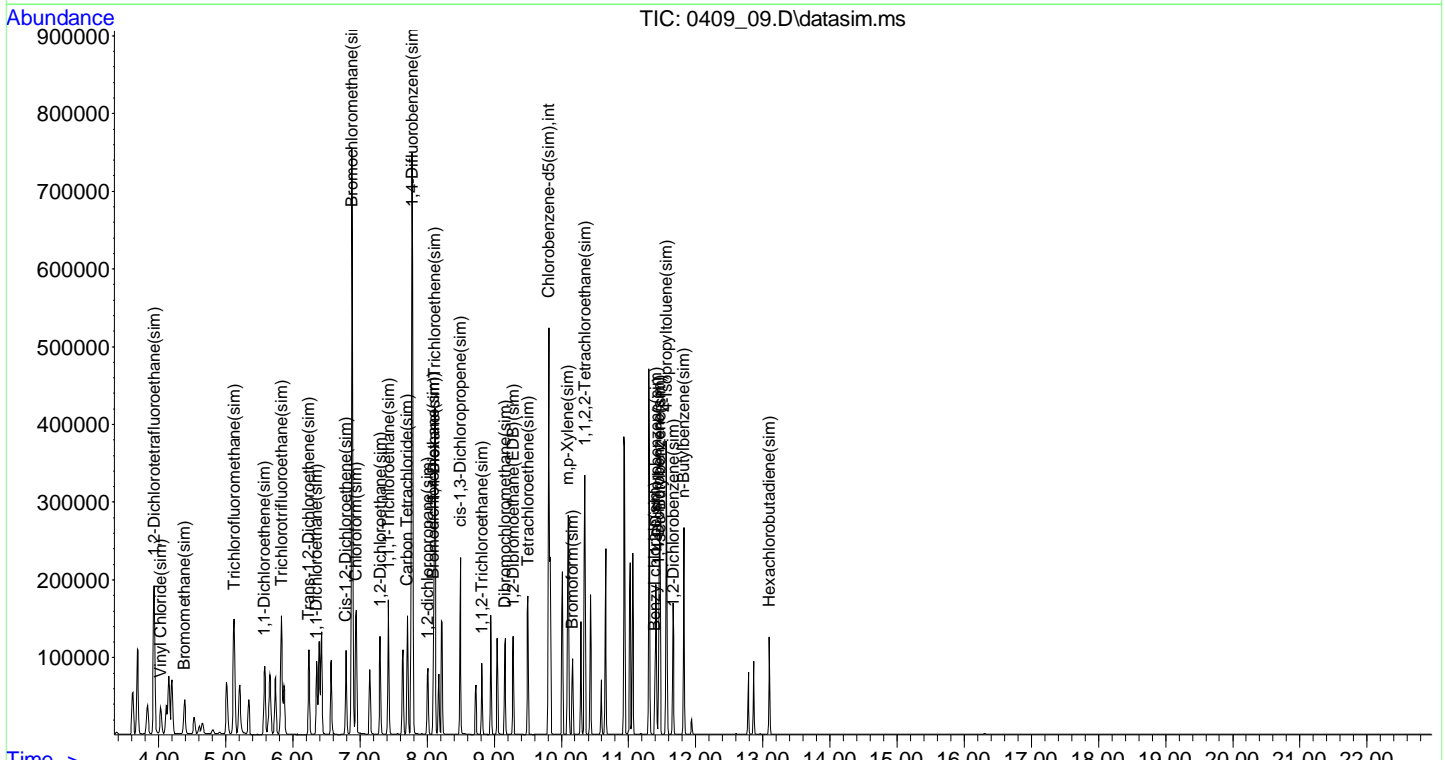
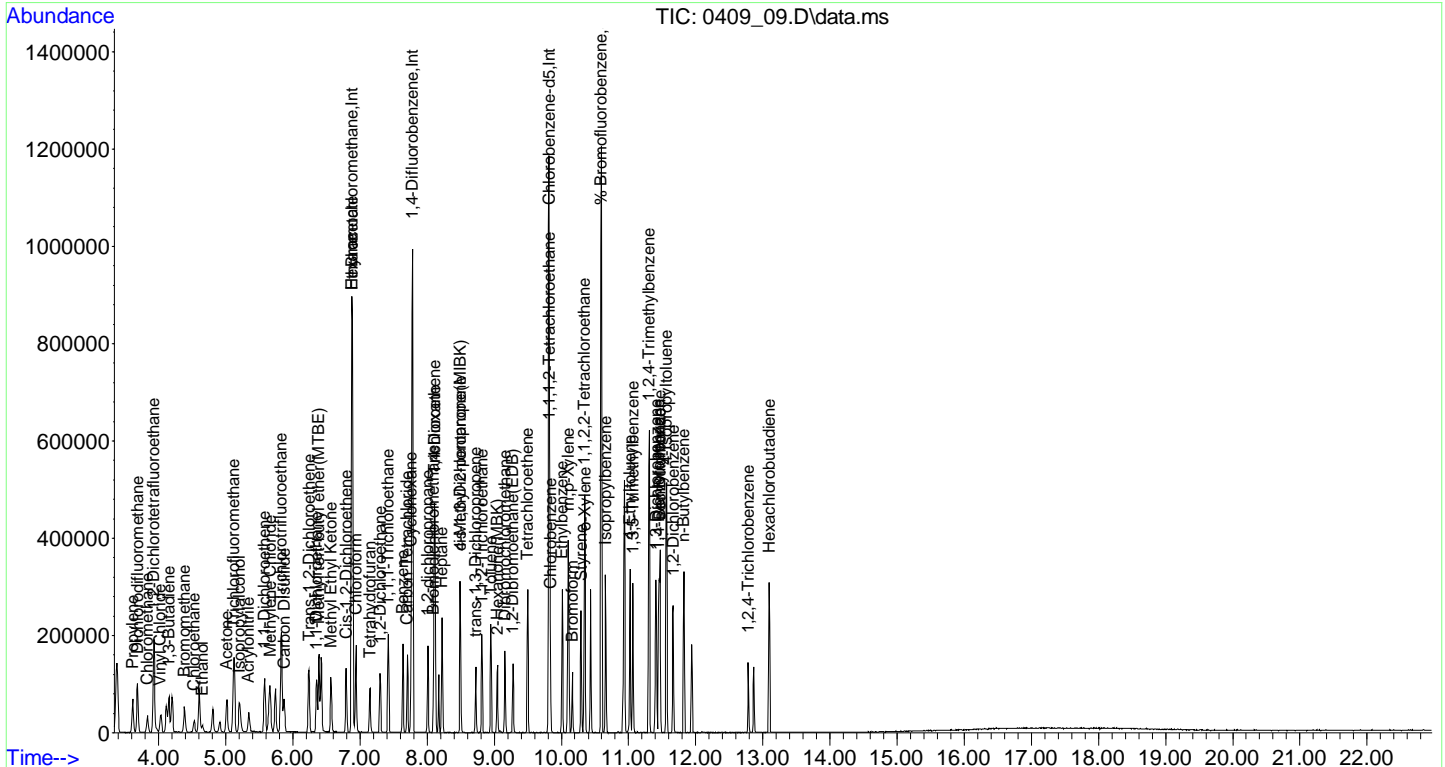
Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
52) Tetrachloroethene	9.497	166	41857	2.418	ppbv#	88
54) 1,1,1,2-Tetrachloroethane	9.822	131	35318	2.264	ppbv	98
55) Chlorobenzene	9.837	112	77878	2.510	ppbv	93
56) Ethylbenzene	10.012	91	121691	2.532	ppbv	96
57) m p-Xylene	10.103	91	193142	5.266	ppbv	94
58) Bromoform	10.164	173	33579	2.572	ppbv	98
60) 1,1,2,2-Tetrachloroethane	10.345	83	70913	2.578	ppbv	91
61) o-Xylene	10.353	91	100312	2.614	ppbv	95
64) Isopropylbenzene	10.656	105	128645	2.548	ppbv	95
66) 4-Ethyltoluene	11.021	105	130522	2.569	ppbv	95
67) 1,3,5-Trimethylbenzene	11.066	105	111872	2.557	ppbv	94
68) 1,2,4-Trimethylbenzene	11.309	105	113392	2.648	ppbv	93
71) 1,3-Dichlorobenzene	11.408	146	71808	2.518	ppbv	96
72) 1,4-Dichlorobenzene	11.453	146	69368	2.479	ppbv	96
73) sec-Butylbenzene	11.469	105	153580	2.572	ppbv	97
74) 4-Isopropyltoluene	11.560	119	133961	2.573	ppbv	94
75) 1,2-Dichlorobenzene	11.666	146	68894	2.542	ppbv	94
76) n-Butylbenzene	11.826	91	114466	2.438	ppbv	97
79) Hexachlorobutadiene	13.094	225	27220	2.396	ppbv	97
81) 1,2-Dichlorotetrafluor...	3.930	85	92510	2.450	ppbv	93
82) Vinyl Chloride(sim)	4.030	62	42520	2.377	ppbv	95
83) Bromomethane(sim)	4.384	94	31935	2.144	ppbv#	95
84) Trichlorofluoromethane...	5.125	101	148538	2.398	ppbv	99
85) 1,2-Dichloroethane(sim)	7.297	62	71490	2.384	ppbv#	91
86) 1,1,1-Trichloroethane(...)	7.424	97	96192	2.442	ppbv#	91
87) Carbon Tetrachloride(sim)	7.704	117	58075	2.402	ppbv	99
88) 1,1-Dichloroethene(sim)	5.581	61	83160	2.370	ppbv#	70
89) Trichlorotrifluoroetha...	5.828	101	71793	2.311	ppbv	98
90) Trans-1,2-Dichloroethe...	6.237	61	70296	2.365	ppbv#	79
91) 1,1-Dichloroethane(sim)	6.354	63	76634	2.352	ppbv	96
92) Cis-1,2-Dichloroethene...	6.789	61	67464	2.408	ppbv#	75
93) Chloroform(sim)	6.941	83	84332	2.399	ppbv#	91
95) 1,2-dichloropropane(sim)	8.009	63	33189	2.258	ppbv#	82
96) Bromdichloromethane(sim)	8.097	85	51164	2.489	ppbv	97
97) Trichloroethene(sim)	8.111	130	38057	2.134	ppbv	92
98) 1,4-Dioxane(sim)	8.105	88	16830	2.119	ppbv#	65
99) cis-1,3-Dichloropropen...	8.492	75	40873	2.628	ppbv	97
100) 1,1,2-Trichloroethane(...)	8.818	97	40089	2.391	ppbv	94
101) Dibromochloromethane(sim)	9.160	129	51096	2.603	ppbv	97
102) 1,2-Dibromomethane(EDB)...	9.282	107	67039	2.579	ppbv	98
103) Tetrachloroethene(sim)	9.497	166	41857	2.153	ppbv	88
105) Bromoform(sim)	10.164	173	33579	2.723	ppbv	98
106) m p-Xylene(sim)	10.098	91	207244	4.224	ppbv#	93
107) 1,1,2,2-Tetrachloroeth...	10.345	83	70913	2.589	ppbv	97
110) Benzyl chloride(sim)	11.396	91	46599	2.308	ppbv	92
111) 1,3-Dichlorobenzene(sim)	11.408	146	71808	2.810	ppbv	96
112) 1,4-Dichlorobenzene(sim)	11.449	146	85526	2.923	ppbv	96
113) sec-Butylbenzene(sim)	11.469	105	153588	1.816	ppbv	97
114) 4-Isopropyltoluene(sim)	11.563	119	132736	1.722	ppbv	92
115) 1,2-Dichlorobenzene(sim)	11.666	146	68894	2.948	ppbv	94
116) n-Butylbenzene(sim)	11.821	91	123563	1.841	ppbv	94
119) Hexachlorobutadiene(sim)	13.094	225	27220	2.277	ppbv	97

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

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM20\04APR\09\
Data File : 0409_09.D
Acq On : 09 Apr 2019 10:56 am
Operator : CORTEX.ms
Client ID : ICAL 2.5
Lab ID : 2.5
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 09 11:39:10 2019
Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_0409.M
Quant Title : VOA Standards for 5 point calibration
Last Update : Tue Apr 09 11:38:59 2019
Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM20\04APR\09\
 Data File : 0409_10.D
 Acq On : 09 Apr 2019 11:33 am
 Operator : CORTEX\ms
 Client ID : ICAL 5
 Lab ID : 5.0
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 09 12:39:49 2019
 Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_0409.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Tue Apr 09 11:39:41 2019
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
Internal Standards						
1) Bromchloromethane	6.879	130	144117	10.000	ng	0.00
36) 1,4-Difluorobenzene	7.781	114	429079	10.000	ng	0.00
53) Chlorobenzene-d5	9.807	82	205886	10.000	ng	# 0.00
80) Bromchloromethane(sim)	6.882	130	192406	10.000	ng	# 0.00
94) 1,4-Difluorobenzene(sim)	7.775	114	487305	10.000	ng	0.00
104) Chlorobenzene-d5(sim)	9.810	82	209097	10.000	ng	# 0.00

System Monitoring Compounds						
62) % Bromfluorobenzene	10.596	95	275542	9.858	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	98.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propylene	3.598	41	93135	5.485	ppbv	96
3) Dichlorodifluoromethane	3.671	85	203105	5.496	ppbv#	95
4) Chloromethane	3.825	50	85582	5.544	ppbv	98
5) 1,2-Dichlorotetrafluor...	3.922	85	199276	5.544	ppbv	93
6) Vinyl Chloride	4.019	62	83432	5.564	ppbv	95
7) 1,3-Butadiene	4.149	54	71078	5.626	ppbv	90
8) Bromomethane	4.376	94	69492	5.537	ppbv#	98
9) Chloroethane	4.522	64	39086	5.554	ppbv	86
11) Ethanol	4.636	45	32315	5.211	ppbv	97
12) Acetone	5.001	43	171465	5.321	ppbv	90
13) Trichlorofluoromethane	5.114	101	266848	5.521	ppbv	99
14) Isopropylalcohol	5.187	45	195020	5.744	ppbv#	97
15) Acrylonitrile	5.342	53	50590	6.024	ppbv	95
16) 1,1-Dichloroethene	5.572	61	160287	5.516	ppbv#	74
17) Methylene Chloride	5.655	49	119586	5.537	ppbv#	58
20) Carbon Disulfide	5.864	76	170664	5.401	ppbv	99
21) Trichlorotrifluoroethane	5.822	101	160871	5.628	ppbv	87
22) Trans-1,2-Dichloroethene	6.234	61	137120	5.564	ppbv#	80
23) 1,1-Dichloroethane	6.354	63	169813	5.561	ppbv	95
24) Methyl tert-butyl ethe...	6.380	73	210578	5.605	ppbv#	72
25) Methyl Ethyl Ketone	6.563	43	224192	5.529	ppbv#	78
26) Cis-1,2-Dichloroethene	6.794	61	129814	5.485	ppbv#	75
27) Hexane	6.887	57	130960	5.620	ppbv#	81
28) Chloroform	6.941	83	186989	5.581	ppbv	92
29) Ethyl acetate	6.887	61	26619	5.880	ppbv#	73
30) Tetrahydrofuran	7.143	42	96350	5.647	ppbv#	62
31) 1,2-Dichloroethane	7.298	62	158707	5.553	ppbv#	92
32) 1,1,1-Trichloroethane	7.422	97	180105	5.509	ppbv#	90
33) Benzene	7.637	78	175707	5.560	ppbv#	87
34) Carbon Tetrachloride	7.704	117	147182	5.399	ppbv	99
35) Cyclohexane	7.764	41	71727	5.646	ppbv#	47
37) 1,2-dichloropropane	8.009	63	75045	5.435	ppbv#	82
38) Bromdichloromethane	8.094	83	150528	5.357	ppbv	99
39) Trichloroethene	8.111	130	87377	5.424	ppbv	92
41) 1,4-Dioxane	8.102	88	37785	5.643	ppbv#	67
43) Heptane	8.221	43	118804	5.490	ppbv#	72
44) cis-1,3-Dichloropropene	8.492	75	99282	5.676	ppbv	96
45) 4-Methyl-2-pentanone(M..	8.492	43	166226	5.608	ppbv#	82
46) trans-1,3-Dichloropropene	8.723	75	93554	5.540	ppbv	95
47) 1,1,2-Trichloroethane	8.815	97	74953	5.525	ppbv	94
48) Toluene	8.949	91	197749	5.621	ppbv#	99
49) Dibromchloromethane	9.160	129	99769	4.798	ppbv	97
50) 2-Hexanone (MBK)	9.040	43	152565	5.650	ppbv#	89
51) 1,2-Dibromethane (EDB)	9.279	107	125803	5.499	ppbv	99

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM20\04APR\09\
 Data File : 0409_10.D
 Acq On : 09 Apr 2019 11:33 am
 Operator : CORTEX\ms
 Client ID : ICAL 5
 Lab ID : 5.0
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 09 12:39:49 2019
 Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_0409.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Tue Apr 09 11:39:41 2019
 Response via : Initial Calibration

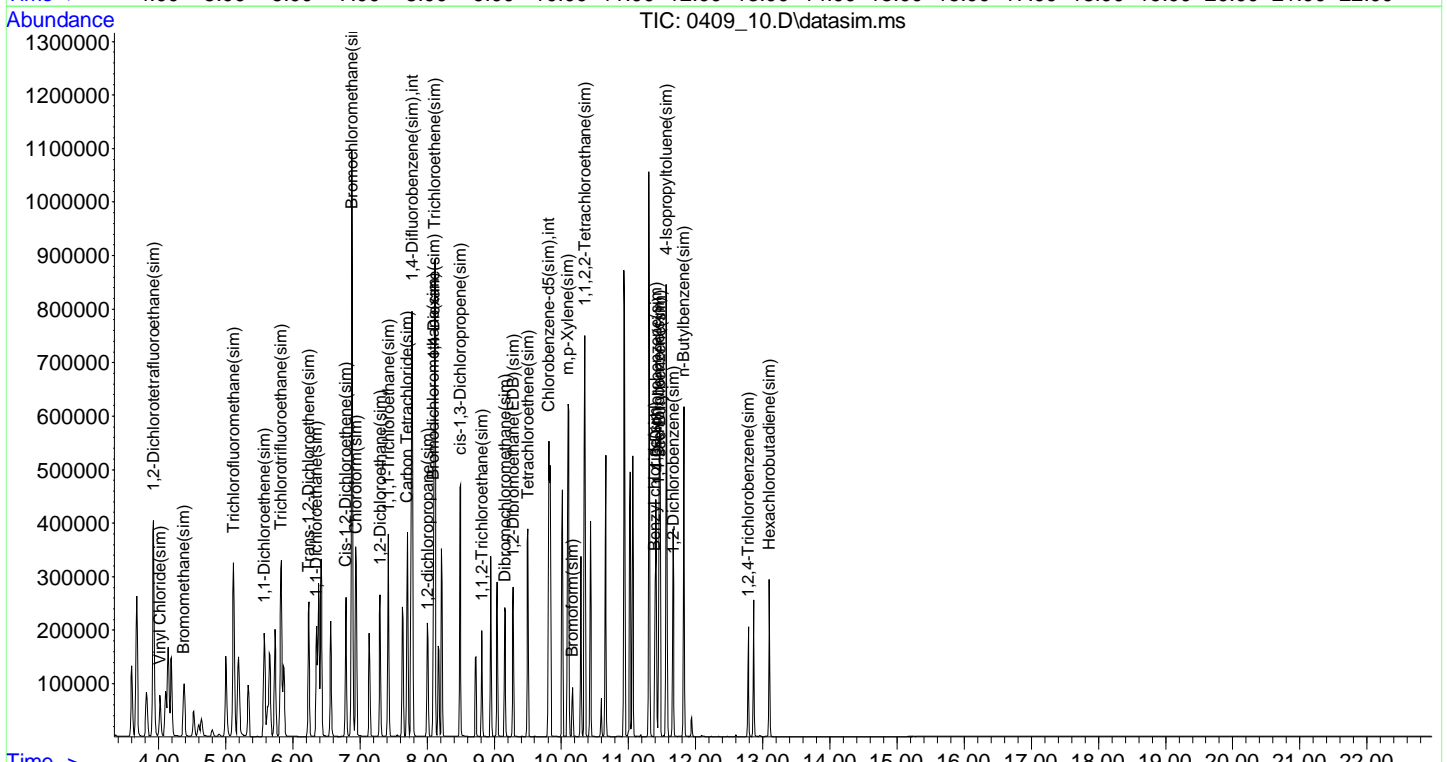
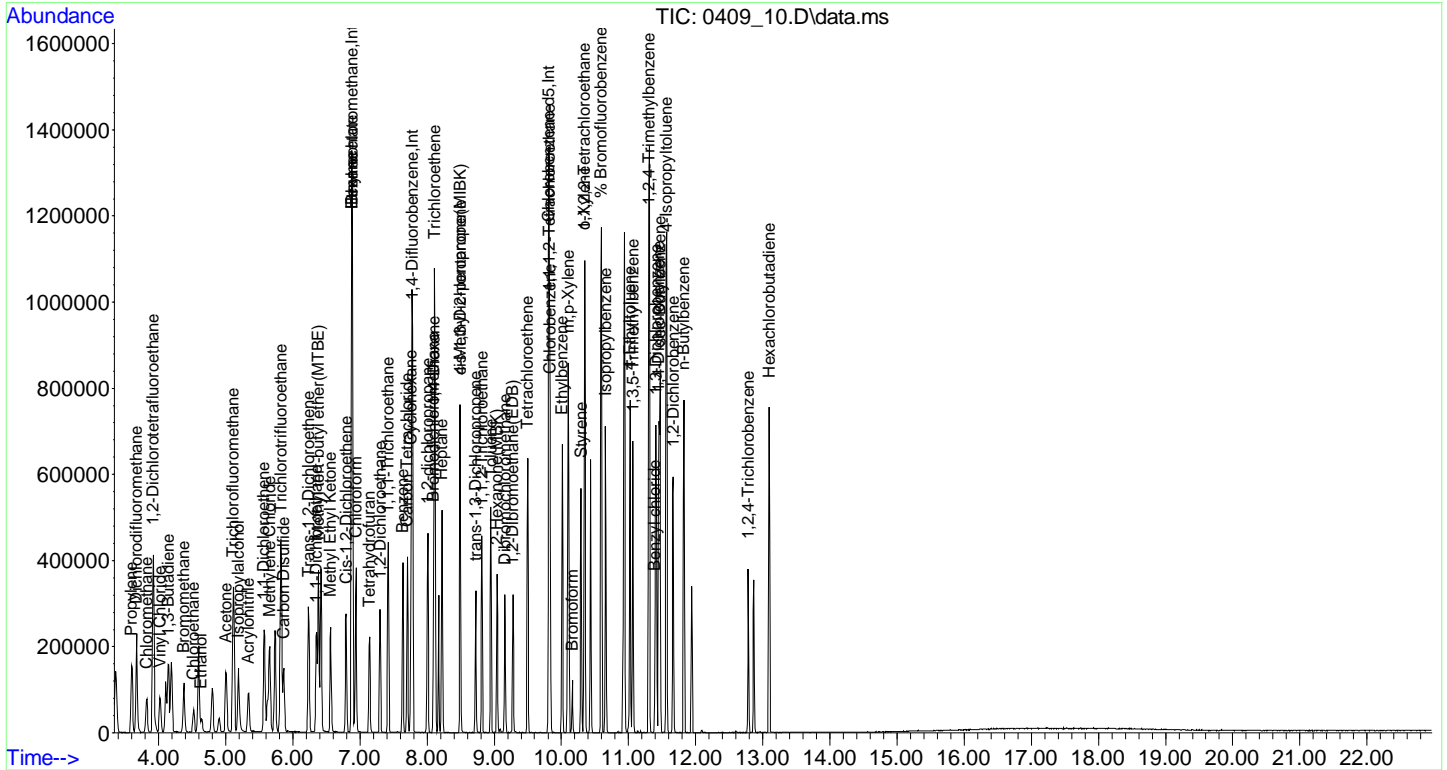
Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
52) Tetrachloroethene	9.498	166	91498	5.370	ppbv#	86
54) 1,1,1,2-Tetrachloroethane	9.822	131	89594	5.658	ppbv	95
55) Chlorobenzene	9.830	112	169184	5.373	ppbv	94
56) Ethylbenzene	10.012	91	273745	5.613	ppbv	96
57) m p-Xylene	10.103	91	440026	11.821	ppbv	94
58) Bromoform	10.164	173	30347	2.290	ppbv	98
60) 1,1,2,2-Tetrachloroethane	10.346	83	158003	5.660	ppbv	92
61) o-Xylene	10.346	91	223026	5.726	ppbv	95
64) Isopropylbenzene	10.657	105	286894	5.599	ppbv	95
66) 4-Ethyltoluene	11.021	105	299317	5.805	ppbv	95
67) 1,3,5-Trimethylbenzene	11.066	105	251549	5.666	ppbv	95
68) 1,2,4-Trimethylbenzene	11.309	105	254169	5.847	ppbv	95
71) 1,3-Dichlorobenzene	11.408	146	160587	5.549	ppbv	96
72) 1,4-Dichlorobenzene	11.454	146	159103	5.601	ppbv	95
73) sec-Butylbenzene	11.469	105	349541	5.767	ppbv	97
74) 4-Isopropyltoluene	11.560	119	307123	5.813	ppbv	95
75) 1,2-Dichlorobenzene	11.666	146	153090	5.566	ppbv	94
76) n-Butylbenzene	11.826	91	278412	5.843	ppbv	97
79) Hexachlorobutadiene	13.094	225	66803	5.793	ppbv	99
81) 1,2-Dichlorotetrafluor...	3.922	85	199269	5.089	ppbv	93
82) Vinyl Chloride(sim)	4.022	62	94179	5.078	ppbv	95
83) Bromomethane(sim)	4.376	94	69492	4.500	ppbv#	98
84) Trichlorofluoromethane...	5.117	101	324551	5.054	ppbv	99
85) 1,2-Dichloroethane(sim)	7.298	62	158707	5.105	ppbv#	92
86) 1,1,1-Trichloroethane(...)	7.424	97	222694	5.454	ppbv#	91
87) Carbon Tetrachloride(sim)	7.704	117	147182	5.871	ppbv	99
88) 1,1-Dichloroethene(sim)	5.575	61	184354	5.068	ppbv#	70
89) Trichlorotrifluoroetha...	5.822	101	160871	4.994	ppbv	97
90) Trans-1,2-Dichloroethe...	6.237	61	160347	5.202	ppbv#	79
91) 1,1-Dichloroethane(sim)	6.354	63	169813	5.028	ppbv	95
92) Cis-1,2-Dichloroethene...	6.789	61	153204	5.273	ppbv#	75
93) Chloroform(sim)	6.941	83	186989	5.130	ppbv#	92
95) 1,2-dichloropropane(sim)	8.009	63	75045	5.187	ppbv#	82
96) Bromdichloromethane(sim)	8.097	85	114512	5.658	ppbv	100
97) Trichloroethene(sim)	8.111	130	87377	4.977	ppbv	96
98) 1,4-Dioxane(sim)	8.105	88	39999	5.117	ppbv#	67
99) cis-1,3-Dichloropropen...	8.492	75	99282	6.485	ppbv	96
100) 1,1,2-Trichloroethane(...)	8.818	97	88997	5.392	ppbv	94
101) Dibromochloromethane(sim)	9.160	129	99769	5.163	ppbv	97
102) 1,2-Dibromomethane(EDB)...	9.282	107	152684	5.966	ppbv	98
103) Tetrachloroethene(sim)	9.498	166	91498	4.780	ppbv#	86
105) Bromoform(sim)	10.164	173	30347	2.432	ppbv	98
106) m p-Xylene(sim)	10.098	91	463084	9.821	ppbv#	93
107) 1,1,2,2-Tetrachloroeth...	10.346	83	158003	5.702	ppbv	99
110) Benzyl chloride(sim)	11.396	91	145380	4.982	ppbv	93
111) 1,3-Dichlorobenzene(sim)	11.408	146	160587	6.211	ppbv	96
112) 1,4-Dichlorobenzene(sim)	11.449	146	194955	6.586	ppbv	95
113) sec-Butylbenzene(sim)	11.469	105	349311	4.836	ppbv	97
114) 4-Isopropyltoluene(sim)	11.563	119	299399	4.693	ppbv	92
115) 1,2-Dichlorobenzene(sim)	11.666	146	153090	6.474	ppbv	94
116) n-Butylbenzene(sim)	11.821	91	292491	4.594	ppbv	95
117) 1,2,4-Trichlorobenzene...	12.783	180	56443	5.800	ppbv	94
119) Hexachlorobutadiene(sim)	13.094	225	67077	5.546	ppbv	99

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

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM20\04APR\09\
 Data File : 0409_10.D
 Acq On : 09 Apr 2019 11:33 am
 Operator : CORTEX.ms
 Client ID : ICAL 5
 Lab ID : 5.0
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 09 12:39:49 2019
 Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_0409.M
 Quant Title : VOA Standards for 5 point calibration
 Last Update : Tue Apr 09 11:39:41 2019
 Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM20\04APR\09\
 Data File : 0409_11.D
 Acq On : 09 Apr 2019 12:13 pm
 Operator : CORTEX\ms
 Client ID : ICAL 25
 Lab ID : 25
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 09 12:40:11 2019
 Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_0409.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Tue Apr 09 12:40:02 2019
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
Internal Standards						
1) Bromchloromethane	6.887	130	163778	10.000	ng	0.00
36) 1,4-Difluorobenzene	7.780	114	416024	10.000	ng	0.00
53) Chlorobenzene-d5	9.815	82	223724	10.000	ng	0.00
80) Bromchloromethane(sim)	6.890	130	214628	10.000	ng	# 0.00
94) 1,4-Difluorobenzene(sim)	7.783	114	473343	10.000	ng	0.00
104) Chlorobenzene-d5(sim)	9.810	82	228050	10.000	ng	# 0.00

System Monitoring Compounds						
62) % Bromfluorobenzene	10.596	95	275616	9.118	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	91.20%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propylene	3.606	41	444707	23.047	ppbv	97
3) Dichlorodifluoromethane	3.679	85	963537	22.942	ppbv#	95
4) Chloromethane	3.833	50	384249	21.903	ppbv	98
5) 1,2-Dichlorotetrafluor...	3.930	85	886684	21.705	ppbv	94
6) Vinyl Chloride	4.035	62	374631	21.984	ppbv	95
7) 1,3-Butadiene	4.157	54	328347	22.869	ppbv#	84
8) Bromomethane	4.392	94	318522	22.331	ppbv#	97
9) Chloroethane	4.530	64	175530	21.948	ppbv	86
11) Ethanol	4.652	45	147612	20.946	ppbv	95
12) Acetone	5.009	43	778063	21.248	ppbv	91
13) Trichlorofluoromethane	5.122	101	1198859	21.828	ppbv	99
14) Isopropylalcohol	5.195	45	791139	20.506	ppbv#	99
15) Acrylonitrile	5.341	53	191038	20.016	ppbv	99
16) 1,1-Dichloroethene	5.584	61	730508	22.122	ppbv#	74
17) Methylene Chloride	5.667	49	523992	21.350	ppbv#	59
20) Carbon Disulfide	5.870	76	777387	21.648	ppbv	99
21) Trichlorotrifluoroethane	5.828	101	700482	21.563	ppbv	89
22) Trans-1,2-Dichloroethene	6.244	61	659848	23.559	ppbv#	78
23) 1,1-Dichloroethane	6.359	63	775765	22.355	ppbv	96
24) Methyl tert-butyl ethe...	6.385	73	1016086	23.798	ppbv#	75
25) Methyl Ethyl Ketone	6.568	43	1039204	22.553	ppbv#	78
26) Cis-1,2-Dichloroethene	6.801	61	630392	23.439	ppbv#	71
27) Hexane	6.887	57	593059	22.395	ppbv#	85
28) Chloroform	6.949	83	843052	22.141	ppbv	92
29) Ethyl acetate	6.887	61	124906	24.281	ppbv#	72
30) Tetrahydrofuran	7.142	42	458548	23.651	ppbv#	62
31) 1,2-Dichloroethane	7.305	62	735926	22.659	ppbv#	92
32) 1,1,1-Trichloroethane	7.421	97	854707	23.005	ppbv#	92
33) Benzene	7.636	78	833332	23.203	ppbv#	88
34) Carbon Tetrachloride	7.713	117	824243	26.606	ppbv	99
35) Cyclohexane	7.764	41	310260	21.491	ppbv#	46
37) 1,2-dichloropropane	8.009	63	345840	25.832	ppbv#	85
38) Bromdichloromethane	8.102	83	701511	25.748	ppbv	99
39) Trichloroethene	8.119	130	396815	25.406	ppbv	93
41) 1,4-Dioxane	8.102	88	171114	26.358	ppbv#	72
43) Heptane	8.221	43	526373	25.086	ppbv#	75
44) cis-1,3-Dichloropropene	8.492	75	467197	27.548	ppbv	98
45) 4-Methyl-2-pentanone(M..	8.492	43	719819	25.048	ppbv#	86
46) trans-1,3-Dichloropropene	8.723	75	484350	29.584	ppbv	95
47) 1,1,2-Trichloroethane	8.815	97	338823	25.759	ppbv	93
48) Toluene	8.948	91	924352	27.098	ppbv#	97
49) Dibromchloromethane	9.160	129	553613	27.460	ppbv	98
50) 2-Hexanone (MBK)	9.040	43	706342	26.981	ppbv#	92
51) 1,2-Dibromethane (EDB)	9.279	107	596404	26.886	ppbv	98

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM20\04APR\09\
 Data File : 0409_11.D
 Acq On : 09 Apr 2019 12:13 pm
 Operator : CORTEX\ms
 Client ID : ICAL 25
 Lab ID : 25
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 09 12:40:11 2019
 Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_0409.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Tue Apr 09 12:40:02 2019
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
52) Tetrachloroethene	9.497	166	426426	25.813	ppbv#	86
54) 1,1,1,2-Tetrachloroethane	9.822	131	469782	27.302	ppbv	97
55) Chlorobenzene	9.838	112	805625	23.544	ppbv	99
56) Ethylbenzene	10.012	91	1280903	24.169	ppbv	98
57) m p-Xylene	10.103	91	1970525	48.715	ppbv	97
58) Bromoform	10.164	173	190011	13.195	ppbv	99
59) Styrene	10.292	104	758369	15.161	ppbv#	91
60) 1,1,2,2-Tetrachloroethane	10.346	83	701421	23.123	ppbv	93
61) o-Xylene	10.353	91	992963	23.461	ppbv	97
64) Isopropylbenzene	10.656	105	1323879	23.776	ppbv	97
66) 4-Ethyltoluene	11.021	105	1402763	25.036	ppbv	97
67) 1,3,5-Trimethylbenzene	11.066	105	1172721	24.308	ppbv	97
68) 1,2,4-Trimethylbenzene	11.309	105	1153046	24.410	ppbv	99
70) Benzyl chloride	11.400	91	901426	11.370	ppbv	95
71) 1,3-Dichlorobenzene	11.415	146	767158	24.394	ppbv	95
72) 1,4-Dichlorobenzene	11.453	146	764956	24.784	ppbv	95
73) sec-Butylbenzene	11.469	105	1603484	24.348	ppbv	99
74) 4-Isopropyltoluene	11.560	119	1451311	25.277	ppbv	98
75) 1,2-Dichlorobenzene	11.666	146	738820	24.718	ppbv	96
76) n-Butylbenzene	11.826	91	1326860	25.628	ppbv	97
77) 1,2,4-Trichlorobenzene	12.782	180	369758	16.346	ppbv#	94
79) Hexachlorobutadiene	13.094	225	317634	25.347	ppbv	99
81) 1,2-Dichlorotetrafluor...	3.930	85	885633	20.278	ppbv	94
82) Vinyl Chloride(sim)	4.030	62	428252	20.699	ppbv	95
83) Bromomethane(sim)	4.392	94	318522	18.490	ppbv#	97
84) Trichlorofluoromethane...	5.125	101	1435522	20.041	ppbv	100
85) 1,2-Dichloroethane(sim)	7.305	62	735926	21.221	ppbv#	92
86) 1,1,1-Trichloroethane(...)	7.424	97	1031649	22.649	ppbv#	92
87) Carbon Tetrachloride(sim)	7.713	117	824243	29.475	ppbv	99
88) 1,1-Dichloroethene(sim)	5.587	61	833024	20.528	ppbv#	70
89) Trichlorotrifluoroetha...	5.828	101	700482	19.495	ppbv	99
90) Trans-1,2-Dichloroethe...	6.242	61	764029	22.222	ppbv#	77
91) 1,1-Dichloroethane(sim)	6.359	63	776201	20.601	ppbv	96
92) Cis-1,2-Dichloroethene...	6.797	61	720618	22.236	ppbv#	73
93) Chloroform(sim)	6.949	83	843052	20.733	ppbv#	92
95) 1,2-dichloropropane(sim)	8.009	63	345840	24.611	ppbv#	85
96) Bromdichloromethane(sim)	8.097	85	531755	27.051	ppbv	99
97) Trichloroethene(sim)	8.119	130	396815	23.269	ppbv	96
98) 1,4-Dioxane(sim)	8.105	88	180356	23.752	ppbv#	72
99) cis-1,3-Dichloropropen...	8.492	75	467183	31.417	ppbv	98
100) 1,1,2-Trichloroethane(...)	8.818	97	413363	25.785	ppbv	95
101) Dibromchloromethane(sim)	9.160	129	553613	29.493	ppbv	98
102) 1,2-Dibrommethane(EDB)...	9.282	107	718068	28.886	ppbv	99
103) Tetrachloroethene(sim)	9.497	166	426426	22.935	ppbv#	86
105) Bromoform(sim)	10.164	173	190011	13.964	ppbv	99
106) m p-Xylene(sim)	10.106	91	2020279	29.040	ppbv	95
107) 1,1,2,2-Tetrachloroeth...	10.346	83	701421	23.208	ppbv	98
110) Benzyl chloride(sim)	11.396	91	941032	13.497	ppbv	95
111) 1,3-Dichlorobenzene(sim)	11.415	146	767158	27.207	ppbv	95
112) 1,4-Dichlorobenzene(sim)	11.456	146	937701	29.043	ppbv	96
113) sec-Butylbenzene(sim)	11.469	105	1602926	14.497	ppbv	99
114) 4-Isopropyltoluene(sim)	11.563	119	1293000	13.851	ppbv	94
115) 1,2-Dichlorobenzene(sim)	11.666	146	738820	28.646	ppbv	96
116) n-Butylbenzene(sim)	11.821	91	1363263	13.469	ppbv	96
117) 1,2,4-Trichlorobenzene...	12.782	180	369758	17.348	ppbv	94
119) Hexachlorobutadiene(sim)	13.094	225	317634	24.080	ppbv	99

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM20\04APR\09\
Data File : 0409_11.D
Acq On : 09 Apr 2019 12:13 pm
Operator : CORTEX\ms
Client ID : ICAL 25
Lab ID : 25
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 09 12:40:11 2019
Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_0409.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Apr 09 12:40:02 2019
Response via : Initial Calibration

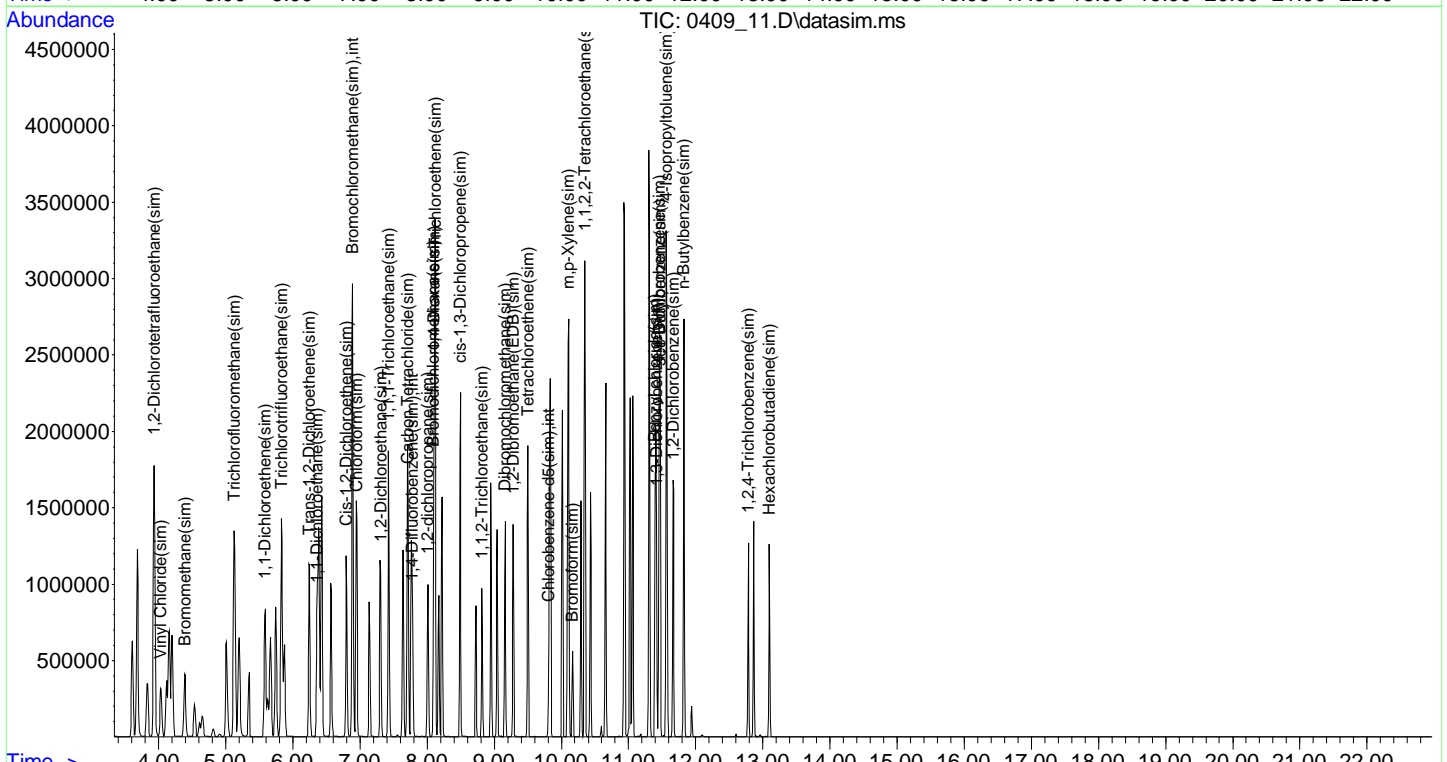
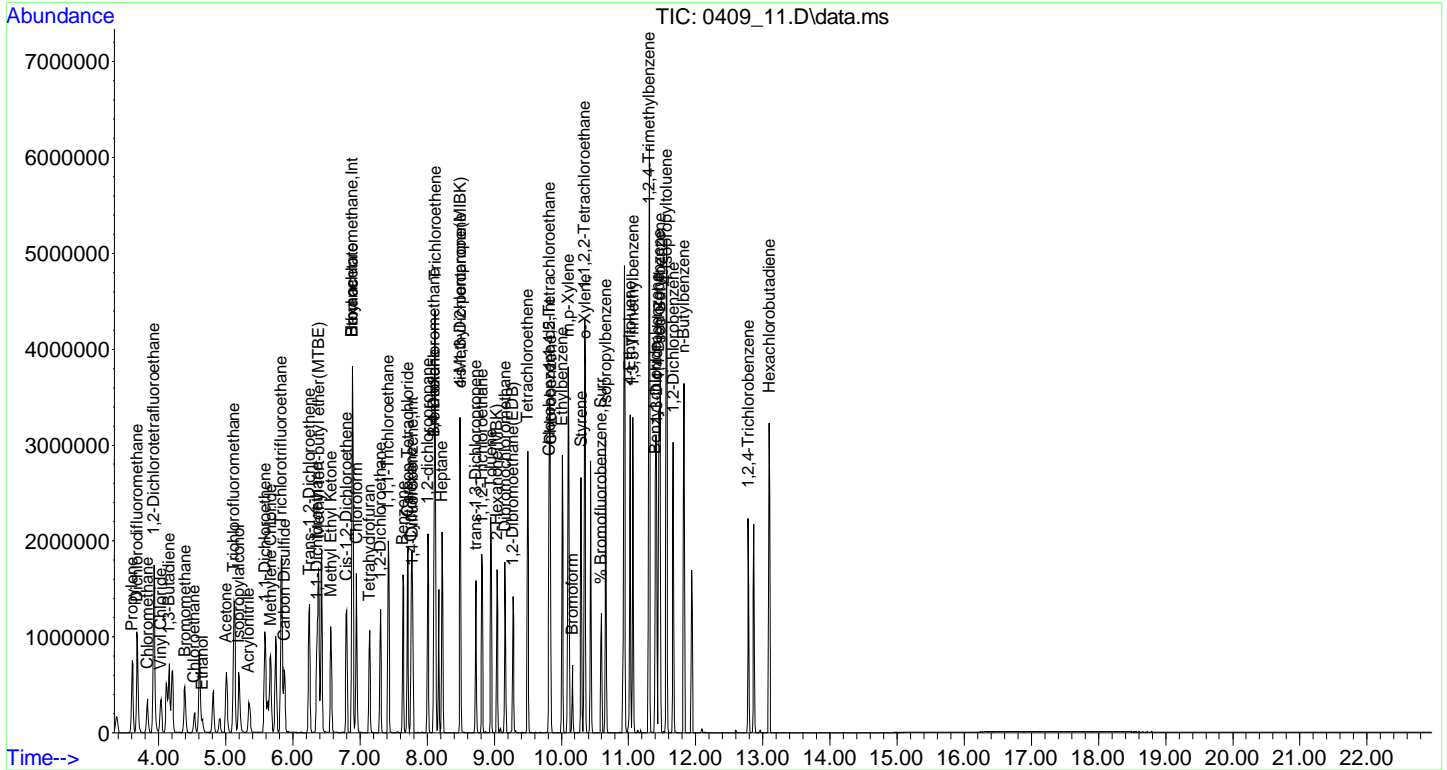
Compound R.T. QIon Response Conc Units Dev(Mn)

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

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM20\04APR\09\
 Data File : 0409_11.D
 Acq On : 09 Apr 2019 12:13 pm
 Operator : CORTEX.ms
 Client ID : ICAL 25
 Lab ID : 25
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 09 12:40:11 2019
 Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_0409.M
 Quant Title : VOA Standards for 5 point calibration
 Last Update : Tue Apr 09 12:40:02 2019
 Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM20\04APR\09\
 Data File : 0409_12.D
 Acq On : 09 Apr 2019 12:55 pm
 Operator : CORTEX\ms
 Client ID : ICAL 40
 Lab ID : 40
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 09 13:32:13 2019
 Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_0409.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Tue Apr 09 12:59:58 2019
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
Internal Standards						
1) Bromchloromethane	6.887	130	185336	10.000	ng	0.00
36) 1,4-Difluorobenzene	7.781	114	424848	10.000	ng	0.00
53) Chlorobenzene-d5	9.815	82	231886	10.000	ng	0.00
80) Bromchloromethane(sim)	6.882	130	237738	10.000	ng	# 0.00
94) 1,4-Difluorobenzene(sim)	7.783	114	477261	10.000	ng	0.00
104) Chlorobenzene-d5(sim)	9.810	82	240535	10.000	ng	# 0.00

System Monitoring Compounds						
62) % Bromfluorobenzene	10.596	95	277255	9.049	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	90.50%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propylene	3.581	41	757763	34.704	ppbv	97
3) Dichlorodifluoromethane	3.654	85	1739628	36.602	ppbv#	96
4) Chloromethane	3.808	50	623716	31.417	ppbv	98
5) 1,2-Dichlorotetrafluor...	3.906	85	1392885	30.131	ppbv	95
6) Vinyl Chloride	4.011	62	609706	31.616	ppbv	95
7) 1,3-Butadiene	4.133	54	531325	32.702	ppbv#	86
8) Bromomethane	4.368	94	508942	31.530	ppbv#	98
9) Chloroethane	4.514	64	286094	31.612	ppbv	88
11) Ethanol	4.644	45	230897	28.953	ppbv	95
12) Acetone	5.001	43	1226258	29.593	ppbv	92
13) Trichlorofluoromethane	5.114	101	1867584	30.048	ppbv	100
14) Isopropylalcohol	5.196	45	1254111	28.725	ppbv#	94
15) Acrylonitrile	5.342	53	316013	29.259	ppbv	94
16) 1,1-Dichloroethene	5.572	61	1142231	30.566	ppbv#	76
17) Methylene Chloride	5.655	49	822988	29.632	ppbv#	59
20) Carbon Disulfide	5.864	76	1204015	29.628	ppbv	100
21) Trichlorotrifluoroethane	5.822	101	1092509	29.719	ppbv	90
22) Trans-1,2-Dichloroethene	6.234	61	1090018	34.391	ppbv#	76
23) 1,1-Dichloroethane	6.354	63	1245224	31.709	ppbv	96
24) Methyl tert-butyl ethe...	6.380	73	1659724	34.351	ppbv#	76
25) Methyl Ethyl Ketone	6.563	43	1655928	31.757	ppbv#	78
26) Cis-1,2-Dichloroethene	6.794	61	1002096	32.926	ppbv#	71
27) Hexane	6.887	57	920102	30.704	ppbv#	89
28) Chloroform	6.941	83	1319641	30.626	ppbv	93
29) Ethyl acetate	6.887	61	196495	33.754	ppbv#	73
30) Tetrahydrofuran	7.135	42	719237	32.781	ppbv#	62
31) 1,2-Dichloroethane	7.305	62	1143396	31.110	ppbv#	92
32) 1,1,1-Trichloroethane	7.422	97	1341906	31.917	ppbv#	92
33) Benzene	7.637	78	1304107	32.088	ppbv#	88
34) Carbon Tetrachloride	7.704	117	1340335	38.232	ppbv	99
35) Cyclohexane	7.764	41	479624	29.358	ppbv#	47
37) 1,2-dichloropropane	8.009	63	540938	39.565	ppbv#	87
38) Bromdichloromethane	8.102	83	1064843	38.271	ppbv	99
39) Trichloroethene	8.119	130	632935	39.681	ppbv	98
41) 1,4-Dioxane	8.102	88	256541	38.696	ppbv#	75
43) Heptane	8.221	43	793669	37.040	ppbv#	77
44) cis-1,3-Dichloropropene	8.492	75	731970	42.264	ppbv	98
45) 4-Methyl-2-pentanone(M..	8.492	43	1118158	38.101	ppbv#	86
46) trans-1,3-Dichloropropene	8.723	75	764972	45.754	ppbv	97
47) 1,1,2-Trichloroethane	8.815	97	538960	40.123	ppbv	94
48) Toluene	8.949	91	1478814	42.451	ppbv	98
49) Dibromchloromethane	9.160	129	891593	43.305	ppbv	97
50) 2-Hexanone (MBK)	9.040	43	1088875	40.730	ppbv#	94
51) 1,2-Dibromethane (EDB)	9.279	107	942935	41.624	ppbv	97

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM20\04APR\09\
 Data File : 0409_12.D
 Acq On : 09 Apr 2019 12:55 pm
 Operator : CORTEX.ms
 Client ID : ICAL 40
 Lab ID : 40
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 09 13:32:13 2019
 Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_0409.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Tue Apr 09 12:59:58 2019
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
52) Tetrachloroethene	9.498	166	673653	39.931	ppbv#	87
54) 1,1,1,2-Tetrachloroethane	9.822	131	744516	41.746	ppbv	97
55) Chlorobenzene	9.838	112	1268396	35.764	ppbv	98
56) Ethylbenzene	10.012	91	2006355	36.525	ppbv	98
57) m p-Xylene	10.103	91	2984333	71.181	ppbv	100
58) Bromoform	10.164	173	314442	21.067	ppbv	99
59) Styrene	10.293	104	1210593	42.232	ppbv#	92
60) 1,1,2,2-Tetrachloroethane	10.346	83	1054549	33.540	ppbv	95
61) o-Xylene	10.353	91	1492422	34.020	ppbv	99
64) Isopropylbenzene	10.657	105	2073011	35.919	ppbv	98
66) 4-Ethyltoluene	11.021	105	2168865	37.346	ppbv	98
67) 1,3,5-Trimethylbenzene	11.066	105	1819048	36.378	ppbv	99
68) 1,2,4-Trimethylbenzene	11.309	105	1679376	34.301	ppbv	99
70) Benzyl chloride	11.400	91	1478816	34.866	ppbv	97
71) 1,3-Dichlorobenzene	11.416	146	1206372	37.009	ppbv	96
72) 1,4-Dichlorobenzene	11.454	146	1204334	37.646	ppbv	96
73) sec-Butylbenzene	11.469	105	2465058	36.113	ppbv	99
74) 4-Isopropyltoluene	11.560	119	2183262	36.687	ppbv	98
75) 1,2-Dichlorobenzene	11.666	146	1170612	37.785	ppbv	96
76) n-Butylbenzene	11.826	91	2030959	37.847	ppbv	99
77) 1,2,4-Trichlorobenzene	12.783	180	622683	36.771	ppbv#	95
79) Hexachlorobutadiene	13.094	225	503382	38.756	ppbv	99
81) 1,2-Dichlorotetrafluor...	3.906	85	1390807	28.749	ppbv	96
82) Vinyl Chloride(sim)	4.014	62	692815	30.231	ppbv	95
83) Bromomethane(sim)	4.368	94	508942	26.671	ppbv#	98
84) Trichlorofluoromethane...	5.109	101	2226478	28.062	ppbv	100
85) 1,2-Dichloroethane(sim)	7.305	62	1143396	29.766	ppbv#	92
86) 1,1,1-Trichloroethane(...)	7.424	97	1617292	32.054	ppbv#	92
87) Carbon Tetrachloride(sim)	7.704	117	1340439	43.274	ppbv	99
88) 1,1-Dichloroethene(sim)	5.575	61	1311174	29.170	ppbv#	71
89) Trichlorotrifluoroetha...	5.822	101	1092509	27.450	ppbv	100
90) Trans-1,2-Dichloroethe...	6.237	61	1240635	32.577	ppbv#	76
91) 1,1-Dichloroethane(sim)	6.354	63	1246335	29.864	ppbv	96
92) Cis-1,2-Dichloroethene...	6.797	61	1149574	32.023	ppbv#	72
93) Chloroform(sim)	6.941	83	1319871	29.304	ppbv#	93
95) 1,2-dichloropropane(sim)	8.009	63	540938	38.179	ppbv#	87
96) Bromdichloromethane(sim)	8.097	85	803001	40.514	ppbv	98
97) Trichloroethene(sim)	8.119	130	632935	36.811	ppbv	98
98) 1,4-Dioxane(sim)	8.105	88	267261	34.908	ppbv#	74
99) cis-1,3-Dichloropropen...	8.492	75	731970	48.820	ppbv	98
100) 1,1,2-Trichloroethane(...)	8.818	97	657419	40.672	ppbv	96
101) Dibromochloromethane(sim)	9.160	129	891593	47.109	ppbv	97
102) 1,2-Dibromomethane(EDB)...	9.282	107	1128407	45.021	ppbv	99
103) Tetrachloroethene(sim)	9.498	166	673557	35.930	ppbv#	87
105) Bromoform(sim)	10.164	173	314442	21.909	ppbv	99
106) m p-Xylene(sim)	10.106	91	2991052	36.715	ppbv	97
107) 1,1,2,2-Tetrachloroeth...	10.346	83	1054549	33.081	ppbv	99
110) Benzyl chloride(sim)	11.396	91	1506589	16.856	ppbv	97
111) 1,3-Dichlorobenzene(sim)	11.416	146	1206372	40.563	ppbv	96
112) 1,4-Dichlorobenzene(sim)	11.456	146	1449818	42.574	ppbv	97
113) sec-Butylbenzene(sim)	11.469	105	2464173	18.625	ppbv	99
114) 4-Isopropyltoluene(sim)	11.563	119	1856593	17.033	ppbv	95
115) 1,2-Dichlorobenzene(sim)	11.666	146	1170612	43.033	ppbv	96
116) n-Butylbenzene(sim)	11.821	91	2029164	16.686	ppbv	96
117) 1,2,4-Trichlorobenzene...	12.783	180	622683	23.032	ppbv	95
119) Hexachlorobutadiene(sim)	13.094	225	503254	36.172	ppbv	99

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM20\04APR\09\
Data File : 0409_12.D
Acq On : 09 Apr 2019 12:55 pm
Operator : CORTEX\ms
Client ID : ICAL 40
Lab ID : 40
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 09 13:32:13 2019
Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_0409.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Apr 09 12:59:58 2019
Response via : Initial Calibration

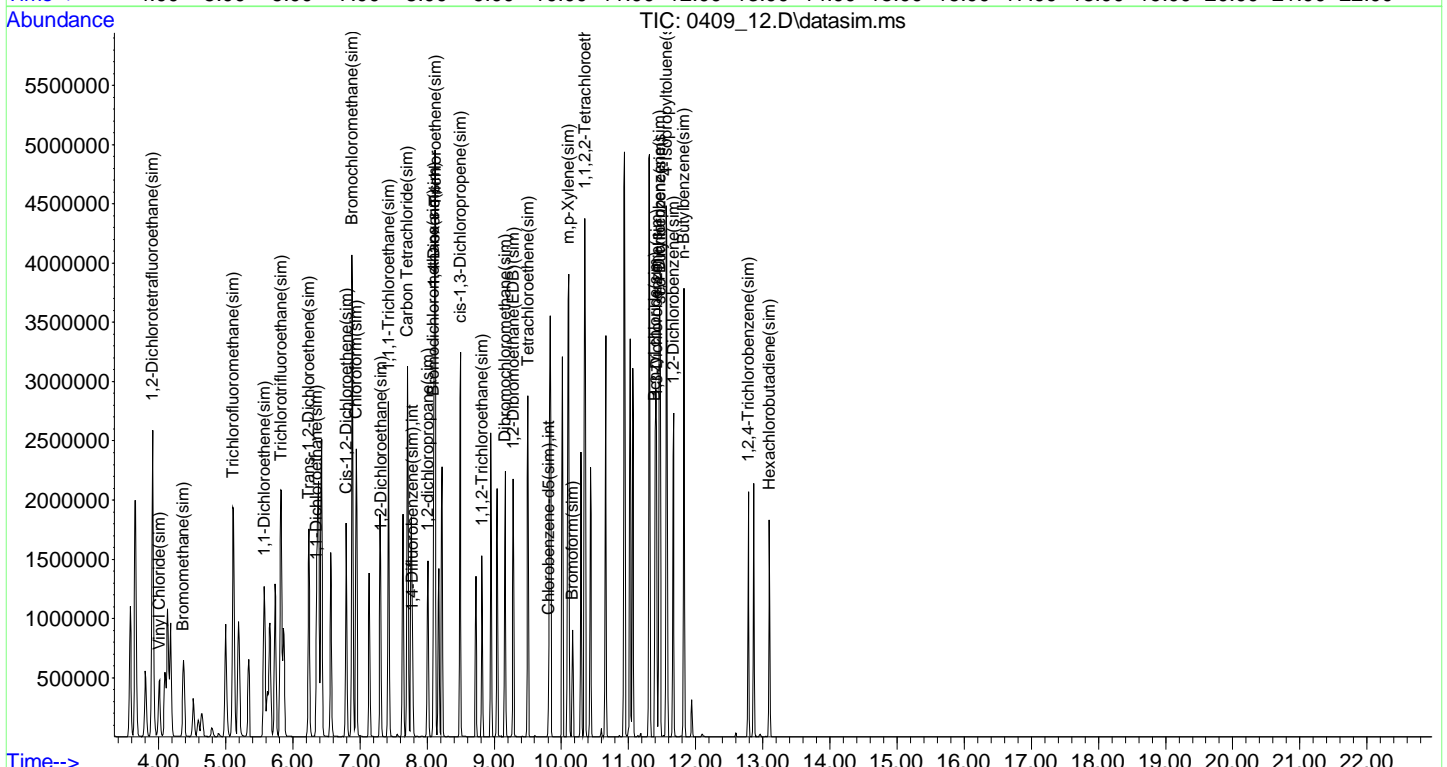
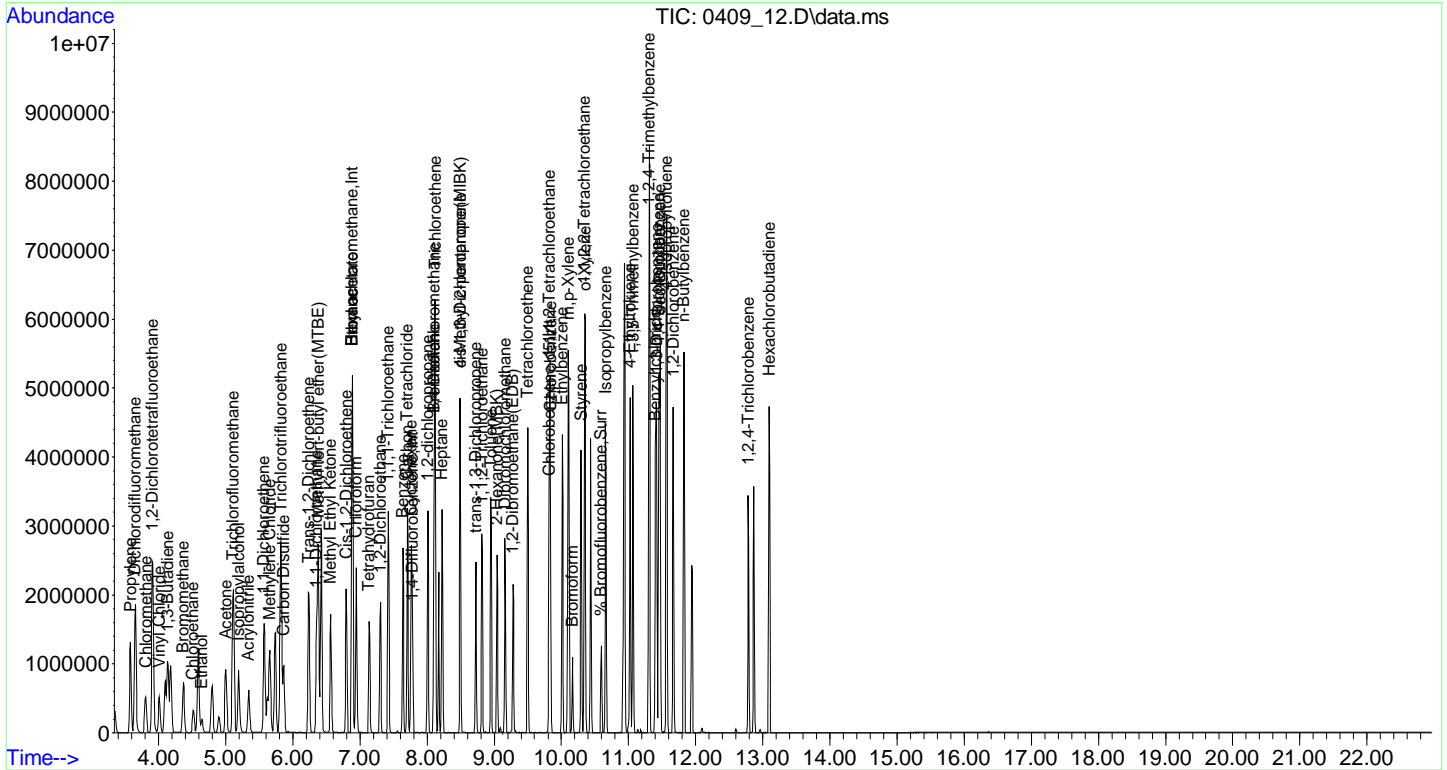
Compound R.T. QIon Response Conc Units Dev(Mn)

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

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM20\04APR\09\
Data File : 0409_12.D
Acq On : 09 Apr 2019 12:55 pm
Operator : CORTEX.ms
Client ID : ICAL 40
Lab ID : 40
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 09 13:32:13 2019
Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_0409.M
Quant Title : VOA Standards for 5 point calibration
Last Update : Tue Apr 09 12:59:58 2019
Response via : Initial Calibration



Data Path : H:\AIR2019\CHEM20\04APR\09\
 Data File : 0409_14.D
 Acq On : 09 Apr 2019 02:09 pm
 Operator : CORTEX\ms
 Client ID : BFB TUNE
 Lab ID : 1ppb cc
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 10 09:42:49 2019
 Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_0409.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Wed Apr 10 09:42:38 2019
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
Internal Standards						
1) Bromchloromethane	6.879	130	140317	10.000	ng	0.00
36) 1,4-Difluorobenzene	7.780	114	445159	10.000	ng	0.00
53) Chlorobenzene-d5	9.807	82	209039	10.000	ng	# 0.00
80) Bromchloromethane(sim)	6.882	130	191401	10.000	ng	# 0.00
94) 1,4-Difluorobenzene(sim)	7.775	114	508826	10.000	ng	0.00
104) Chlorobenzene-d5(sim)	9.810	82	209433	10.000	ng	# 0.00

System Monitoring Compounds						
62) % Bromfluorobenzene	10.596	95	276688	10.096	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	101.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propylene	3.622	41	16137	0.976	ppbv	98
3) Dichlorodifluoromethane	3.687	85	35867	0.997	ppbv#	93
4) Chloromethane	3.841	50	16207	1.078	ppbv	98
5) 1,2-Dichlorotetrafluor...	3.930	85	37735	1.078	ppbv	92
6) Vinyl Chloride	4.035	62	16280	1.115	ppbv	92
7) 1,3-Butadiene	4.157	54	12575	1.022	ppbv#	78
8) Bromomethane	4.392	94	13441	1.100	ppbv	94
9) Chloroethane	4.530	64	7366	1.075	ppbv	88
11) Ethanol	4.660	45	6770	1.121	ppbv	96
12) Acetone	5.025	43	33061	1.054	ppbv#	88
13) Trichlorofluoromethane	5.122	101	50628	1.076	ppbv	99
14) Isopropylalcohol	5.212	45	36347	1.100	ppbv#	98
15) Acrylonitrile	5.341	53	7861	0.961	ppbv	92
16) 1,1-Dichloroethene	5.578	61	29857	1.055	ppbv#	76
17) Methylene Chloride	5.661	49	21807	1.037	ppbv#	58
20) Carbon Disulfide	5.870	76	33410	1.086	ppbv#	93
21) Trichlorotrifluoroethane	5.828	101	30156	1.084	ppbv	90
22) Trans-1,2-Dichloroethene	6.239	61	25499	1.063	ppbv#	79
23) 1,1-Dichloroethane	6.354	63	32643	1.098	ppbv	94
24) Methyl tert-butyl ethe...	6.395	73	39394	1.077	ppbv#	68
25) Methyl Ethyl Ketone	6.573	43	42948	1.088	ppbv#	77
26) Cis-1,2-Dichloroethene	6.794	61	24736	1.074	ppbv#	73
27) Hexane	6.887	57	24695	1.088	ppbv#	83
28) Chloroform	6.941	83	35703	1.094	ppbv	91
29) Ethyl acetate	6.894	61	4806	1.090	ppbv#	76
30) Tetrahydrofuran	7.150	42	17888	1.077	ppbv#	61
31) 1,2-Dichloroethane	7.297	62	29587	1.063	ppbv#	89
32) 1,1,1-Trichloroethane	7.421	97	35222	1.107	ppbv#	92
33) Benzene	7.636	78	34039	1.106	ppbv#	88
34) Carbon Tetrachloride	7.704	117	29525	1.112	ppbv	97
35) Cyclohexane	7.763	41	13060	1.056	ppbv#	33
37) 1,2-dichloropropane	8.009	63	14570	1.017	ppbv#	79
38) Bromdichloromethane	8.094	83	30194	1.036	ppbv	98
39) Trichloroethene	8.111	130	16950	1.014	ppbv	91
41) 1,4-Dioxane	8.111	88	7055	1.016	ppbv#	67
43) Heptane	8.221	43	23041	1.026	ppbv#	70
44) cis-1,3-Dichloropropene	8.492	75	18186	1.002	ppbv	97
45) 4-Methyl-2-pentanone(M..	8.500	43	30217	0.983	ppbv#	83
46) trans-1,3-Dichloropropene	8.723	75	16248	0.927	ppbv	96
47) 1,1,2-Trichloroethane	8.815	97	13443	0.955	ppbv	92
48) Toluene	8.948	91	35674	0.977	ppbv#	98
49) Dibromchloromethane	9.159	129	23391	1.084	ppbv	97
50) 2-Hexanone (MBK)	9.047	43	26347	0.941	ppbv#	88
51) 1,2-Dibromethane (EDB)	9.279	107	23518	0.991	ppbv	97

Data Path : H:\AIR2019\CHEM20\04APR\09\
 Data File : 0409_14.D
 Acq On : 09 Apr 2019 02:09 pm
 Operator : CORTEX.ms
 Client ID : BFB TUNE
 Lab ID : 1ppb cc
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 10 09:42:49 2019
 Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_0409.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Wed Apr 10 09:42:38 2019
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
52) Tetrachloroethene	9.497	166	17465	0.988	ppbv#	89
54) 1,1,1,2-Tetrachloroethane	9.822	131	16140	1.004	ppbv	96
55) Chlorobenzene	9.837	112	31745	0.993	ppbv	86
56) Ethylbenzene	10.012	91	50220	1.014	ppbv	94
57) m p-Xylene	10.103	91	79260	2.097	ppbv	93
58) Bromoform	10.163	173	15305	1.138	ppbv	96
59) Styrene	10.292	104	26116	0.951	ppbv#	86
60) 1,1,2,2-Tetrachloroethane	10.345	83	29485	1.040	ppbv	91
61) o-Xylene	10.353	91	40792	1.031	ppbv	94
64) Isopropylbenzene	10.656	105	50733	0.975	ppbv	95
66) 4-Ethyltoluene	11.020	105	51373	0.981	ppbv	95
67) 1,3,5-Trimethylbenzene	11.066	105	45650	1.013	ppbv	91
68) 1,2,4-Trimethylbenzene	11.309	105	45425	1.029	ppbv	93
70) Benzyl chloride	11.469	91	11639	0.914	ppbv#	61
71) 1,3-Dichlorobenzene	11.408	146	29404	1.001	ppbv	96
72) 1,4-Dichlorobenzene	11.453	146	28468	0.987	ppbv	95
73) sec-Butylbenzene	11.469	105	61854	1.005	ppbv	96
74) 4-Isopropyltoluene	11.560	119	54176	1.010	ppbv	95
75) 1,2-Dichlorobenzene	11.666	146	28382	1.016	ppbv	95
76) n-Butylbenzene	11.825	91	45966	0.950	ppbv#	92
77) 1,2,4-Trichlorobenzene	12.782	180	8988	0.818	ppbv#	95
79) Hexachlorobutadiene	13.094	225	11505	0.983	ppbv	97
81) 1,2-Dichlorotetrafluor...	3.930	85	37735	0.969	ppbv	92
82) Vinyl Chloride(sim)	4.038	62	17789	0.964	ppbv	95
83) Bromomethane(sim)	4.392	94	13441	0.875	ppbv	94
84) Trichlorofluoromethane...	5.125	101	61125	0.957	ppbv	99
85) 1,2-Dichloroethane(sim)	7.297	62	29587	0.957	ppbv#	89
86) 1,1,1-Trichloroethane(...)	7.424	97	42940	1.057	ppbv#	90
87) Carbon Tetrachloride(sim)	7.704	117	29525	1.184	ppbv	97
88) 1,1-Dichloroethene(sim)	5.581	61	35030	0.968	ppbv#	70
89) Trichlorotrifluoroetha...	5.828	101	30156	0.941	ppbv	100
90) Trans-1,2-Dichloroethe...	6.237	61	30065	0.981	ppbv#	78
91) 1,1-Dichloroethane(sim)	6.354	63	32643	0.972	ppbv#	94
92) Cis-1,2-Dichloroethene...	6.789	61	28516	0.987	ppbv#	76
93) Chloroform(sim)	6.941	83	35703	0.985	ppbv#	91
95) 1,2-dichloropropane(sim)	8.009	63	14570	0.965	ppbv#	79
96) Bromdichloromethane(sim)	8.097	85	22525	1.066	ppbv	98
97) Trichloroethene(sim)	8.111	130	16950	0.925	ppbv	95
98) 1,4-Dioxane(sim)	8.114	88	7551	0.925	ppbv#	67
99) cis-1,3-Dichloropropen...	8.492	75	18186	1.138	ppbv	97
100) 1,1,2-Trichloroethane(...)	8.818	97	16655	0.966	ppbv	94
101) Dibromchloromethane(sim)	9.159	129	23391	1.159	ppbv	97
102) 1,2-Dibromethane(EDB)...	9.282	107	28146	1.053	ppbv	98
103) Tetrachloroethene(sim)	9.497	166	17465	0.874	ppbv	89
105) Bromoform(sim)	10.163	173	15305	1.225	ppbv	96
106) m p-Xylene(sim)	10.106	91	84263	2.092	ppbv#	93
107) 1,1,2,2-Tetrachloroeth...	10.345	83	29485	1.062	ppbv#	99
110) Benzyl chloride(sim)	11.396	91	19119	1.191	ppbv	92
111) 1,3-Dichlorobenzene(sim)	11.408	146	29404	1.135	ppbv	96
112) 1,4-Dichlorobenzene(sim)	11.449	146	35562	1.199	ppbv	96
113) sec-Butylbenzene(sim)	11.469	105	61860	1.051	ppbv	96
114) 4-Isopropyltoluene(sim)	11.563	119	52230	1.046	ppbv#	91
115) 1,2-Dichlorobenzene(sim)	11.666	146	28382	1.198	ppbv	95
116) n-Butylbenzene(sim)	11.821	91	46691	1.056	ppbv	94
117) 1,2,4-Trichlorobenzene...	12.782	180	8988	1.055	ppbv	95
119) Hexachlorobutadiene(sim)	13.094	225	11505	0.950	ppbv	97

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2019\CHEM20\04APR\09\
Data File : 0409_14.D
Acq On : 09 Apr 2019 02:09 pm
Operator : CORTEX\ms
Client ID : BFB TUNE
Lab ID : 1ppb cc
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 10 09:42:49 2019
Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_0409.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Wed Apr 10 09:42:38 2019
Response via : Initial Calibration

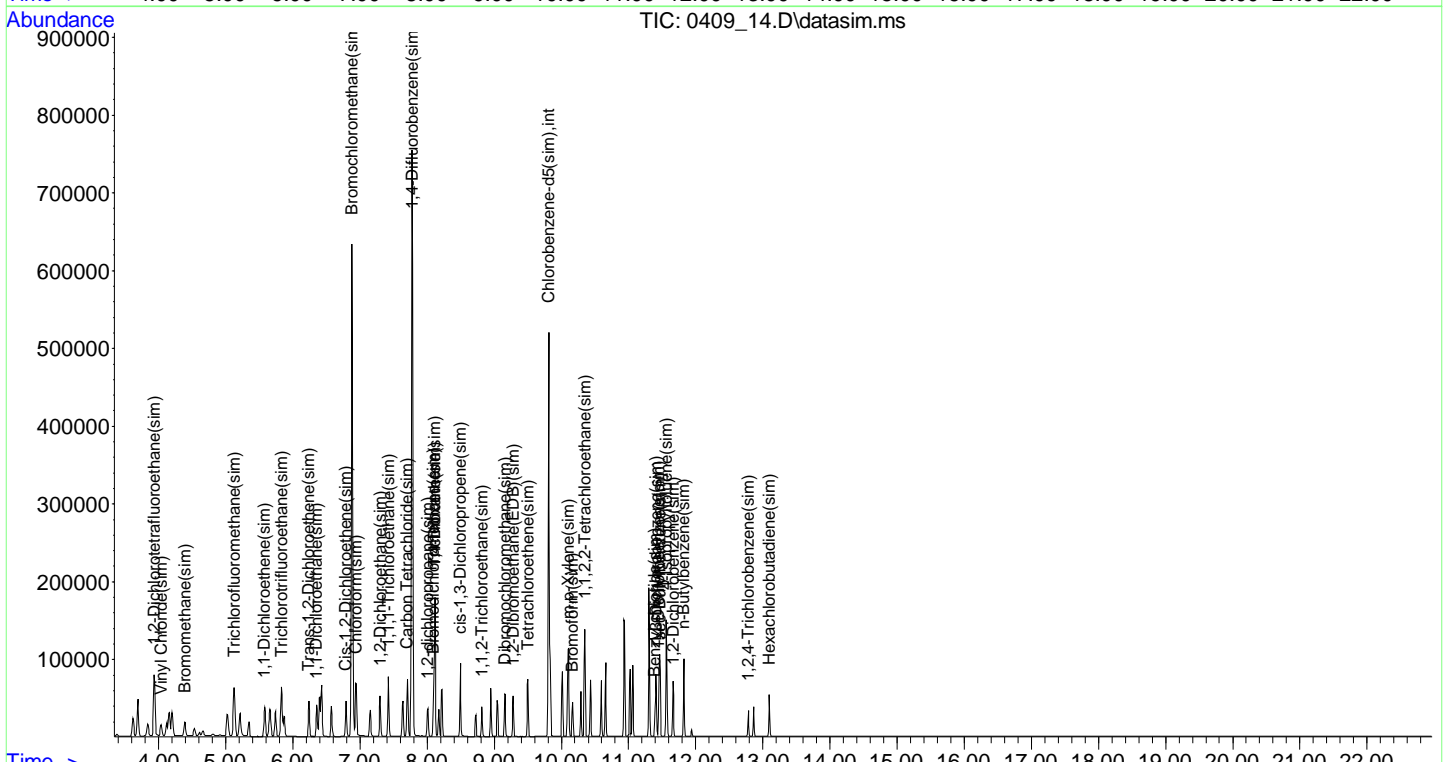
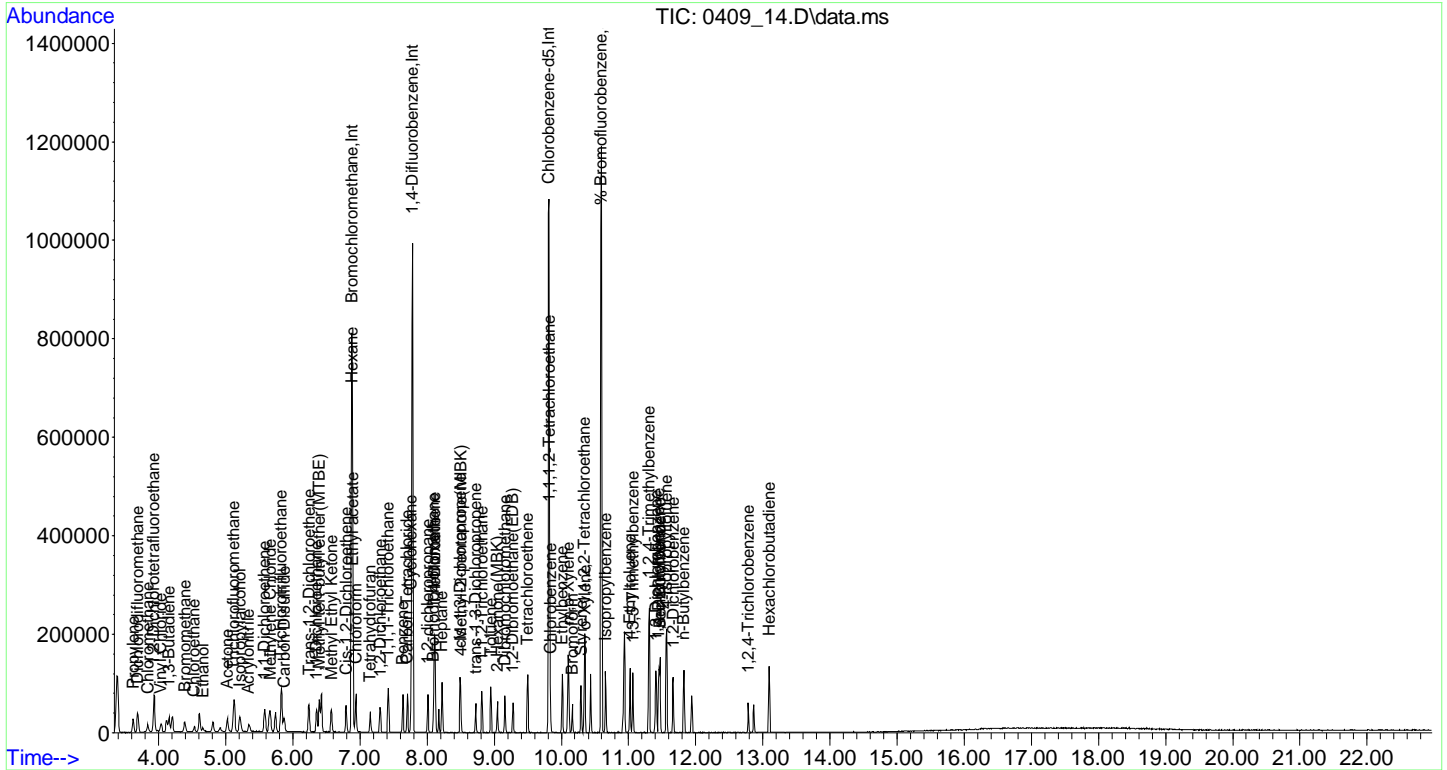
Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
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(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2019\CHEM20\04APR\09\
 Data File : 0409_14.D
 Acq On : 09 Apr 2019 02:09 pm
 Operator : CORTEX.ms
 Client ID : BFB TUNE
 Lab ID : lppb cc
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 10 09:42:49 2019
 Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_0409.M
 Quant Title : VOA Standards for 5 point calibration
 Last Update : Wed Apr 10 09:42:38 2019
 Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM20\04APR\09\
 Data File : 0409_15.D
 Acq On : 09 Apr 2019 02:47 pm
 Operator : CORTEX\ms
 Client ID : ICAL 0.2
 Lab ID : 0.2ppb
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 10 09:07:26 2019
 Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_0409.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Wed Apr 10 09:07:16 2019
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
Internal Standards						
1) Bromchloromethane	6.871	130	140705	10.000	ng	0.00
36) 1,4-Difluorobenzene	7.772	114	434962	10.000	ng	0.00
53) Chlorobenzene-d5	9.807	82	200316	10.000	ng	# 0.00
80) Bromchloromethane(sim)	6.874	130	188865	10.000	ng	# 0.00
94) 1,4-Difluorobenzene(sim)	7.775	114	495973	10.000	ng	0.00
104) Chlorobenzene-d5(sim)	9.810	82	203542	10.000	ng	# 0.00

System Monitoring Compounds						
62) % Bromfluorobenzene	10.596	95	266637	10.153	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	101.50%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propylene	3.606	41	3801	0.229	ppbv	88
3) Dichlorodifluoromethane	3.679	85	7761	0.215	ppbv#	92
4) Chloromethane	3.833	50	3187	0.211	ppbv	87
5) 1,2-Dichlorotetrafluor...	3.922	85	7204	0.205	ppbv	96
6) Vinyl Chloride	4.027	62	2975	0.203	ppbv	92
7) 1,3-Butadiene	4.149	54	2445	0.198	ppbv#	70
8) Bromomethane	4.384	94	2564	0.209	ppbv#	91
9) Chloroethane	4.522	64	1379	0.201	ppbv	92
11) Ethanol	4.660	45	1513	0.250	ppbv#	84
12) Acetone	5.025	43	7511	0.239	ppbv#	82
13) Trichlorofluoromethane	5.114	101	9815	0.208	ppbv	95
14) Isopropylalcohol	5.212	45	7730	0.233	ppbv#	89
15) Acrylonitrile	5.341	53	1694	0.207	ppbv	91
16) 1,1-Dichloroethene	5.566	61	6190	0.218	ppbv#	77
17) Methylene Chloride	5.655	49	5043	0.239	ppbv#	54
20) Carbon Disulfide	5.864	76	6969	0.226	ppbv	96
21) Trichlorotrifluoroethane	5.822	101	5789	0.207	ppbv#	89
22) Trans-1,2-Dichloroethene	6.234	61	4803	0.200	ppbv#	80
23) 1,1-Dichloroethane	6.349	63	6226	0.209	ppbv	93
24) Methyl tert-butyl ethe...	6.396	73	7376	0.201	ppbv#	66
25) Methyl Ethyl Ketone	6.573	43	8205	0.207	ppbv#	77
26) Cis-1,2-Dichloroethene	6.786	61	4848	0.210	ppbv#	72
27) Hexane	6.887	57	4923	0.216	ppbv#	82
28) Chloroform	6.933	83	6827	0.209	ppbv	89
29) Ethyl acetate	6.894	61	817	0.185	ppbv#	65
30) Tetrahydrofuran	7.158	42	3386	0.203	ppbv#	59
31) 1,2-Dichloroethane	7.297	62	5983	0.214	ppbv#	89
32) 1,1,1-Trichloroethane	7.414	97	6763	0.212	ppbv#	90
33) Benzene	7.636	78	6087	0.197	ppbv#	83
34) Carbon Tetrachloride	7.704	117	5195	0.195	ppbv	95
35) Cyclohexane	7.763	41	2697	0.217	ppbv#	1
37) 1,2-dichloropropane	8.009	63	2533	0.181	ppbv#	79
38) Bromdichloromethane	8.094	83	5863	0.206	ppbv	92
39) Trichloroethene	8.111	130	3273	0.200	ppbv	95
41) 1,4-Dioxane	8.111	88	1357	0.200	ppbv#	61
43) Heptane	8.221	43	4342	0.198	ppbv#	67
44) cis-1,3-Dichloropropene	8.492	75	3046	0.172	ppbv	98
45) 4-Methyl-2-pentanone(M..	8.500	43	5911	0.197	ppbv#	80
46) trans-1,3-Dichloropropene	8.723	75	2843	0.166	ppbv	95
47) 1,1,2-Trichloroethane	8.815	97	2660	0.193	ppbv	93
48) Toluene	8.948	91	6268	0.176	ppbv#	96
49) Dibromchloromethane	9.160	129	4182	0.198	ppbv	96
50) 2-Hexanone (MBK)	9.047	43	4613	0.169	ppbv#	89
51) 1,2-Dibromethane (EDB)	9.279	107	4242	0.183	ppbv	99

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM20\04APR\09\
 Data File : 0409_15.D
 Acq On : 09 Apr 2019 02:47 pm
 Operator : CORTEX\ms
 Client ID : ICAL 0.2
 Lab ID : 0.2ppb
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 10 09:07:26 2019
 Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_0409.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Wed Apr 10 09:07:16 2019
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
52) Tetrachloroethene	9.497	166	3392	0.196	ppbv	92
54) 1,1,1,2-Tetrachloroethane	9.822	131	2763	0.179	ppbv	97
55) Chlorobenzene	9.830	112	6621	0.216	ppbv#	41
56) Ethylbenzene	10.012	91	9216	0.194	ppbv	94
57) m p-Xylene	10.103	91	14007	0.387	ppbv	94
58) Bromoform	10.164	173	2774	0.215	ppbv	95
59) Styrene	10.292	104	4662	0.177	ppbv#	92
60) 1,1,2,2-Tetrachloroethane	10.346	83	5490	0.202	ppbv	89
61) o-Xylene	10.353	91	7149	0.189	ppbv	99
64) Isopropylbenzene	10.656	105	10173	0.204	ppbv#	91
66) 4-Ethyltoluene	11.021	105	8988	0.179	ppbv#	89
67) 1,3,5-Trimethylbenzene	11.066	105	8327	0.193	ppbv	97
68) 1,2,4-Trimethylbenzene	11.309	105	7465	0.177	ppbv	92
70) Benzyl chloride	11.469	91	1975	0.616	ppbv#	65
71) 1,3-Dichlorobenzene	11.408	146	5653	0.201	ppbv#	90
72) 1,4-Dichlorobenzene	11.453	146	5675	0.205	ppbv	97
73) sec-Butylbenzene	11.469	105	10923	0.185	ppbv	96
74) 4-Isopropyltoluene	11.560	119	8866	0.172	ppbv#	91
75) 1,2-Dichlorobenzene	11.666	146	5107	0.191	ppbv#	92
76) n-Butylbenzene	11.826	91	6633	0.143	ppbv	95
77) 1,2,4-Trichlorobenzene	12.782	180	2126	0.202	ppbv#	87
79) Hexachlorobutadiene	13.094	225	2129	0.190	ppbv	90
81) 1,2-Dichlorotetrafluor...	3.922	85	7204	0.187	ppbv	96
82) Vinyl Chloride(sim)	4.022	62	3480	0.191	ppbv	96
83) Bromomethane(sim)	4.384	94	2564	0.169	ppbv#	91
84) Trichlorofluoromethane...	5.117	101	12026	0.191	ppbv	99
85) 1,2-Dichloroethane(sim)	7.297	62	5983	0.196	ppbv#	89
86) 1,1,1-Trichloroethane(...)	7.417	97	8324	0.208	ppbv#	90
87) Carbon Tetrachloride(sim)	7.704	117	5195	0.211	ppbv	95
88) 1,1-Dichloroethene(sim)	5.575	61	6842	0.192	ppbv#	71
89) Trichlorotrifluoroetha...	5.822	101	5789	0.183	ppbv	96
90) Trans-1,2-Dichloroethe...	6.231	61	5766	0.191	ppbv#	79
91) 1,1-Dichloroethane(sim)	6.349	63	6226	0.188	ppbv#	93
92) Cis-1,2-Dichloroethene...	6.789	61	5529	0.194	ppbv#	76
93) Chloroform(sim)	6.933	83	6827	0.191	ppbv#	89
95) 1,2-dichloropropane(sim)	8.009	63	2533	0.172	ppbv#	79
96) Bromdichloromethane(sim)	8.097	85	4398	0.214	ppbv	99
97) Trichloroethene(sim)	8.111	130	3273	0.183	ppbv	96
98) 1,4-Dioxane(sim)	8.114	88	1570	0.197	ppbv#	70
99) cis-1,3-Dichloropropen...	8.492	75	3046	0.195	ppbv	98
100) 1,1,2-Trichloroethane(...)	8.818	97	3243	0.193	ppbv	94
101) Dibromochloromethane(sim)	9.160	129	4182	0.213	ppbv	97
102) 1,2-Dibromomethane(EDB)...	9.282	107	5333	0.205	ppbv	99
103) Tetrachloroethene(sim)	9.497	166	3392	0.174	ppbv	92
105) Bromoform(sim)	10.164	173	2774	0.228	ppbv	95
106) m p-Xylene(sim)	10.098	91	14943	0.397	ppbv	94
107) 1,1,2,2-Tetrachloroeth...	10.346	83	5490	0.204	ppbv	93
110) Benzyl chloride(sim)	11.396	91	3080	0.252	ppbv	92
111) 1,3-Dichlorobenzene(sim)	11.408	146	5653	0.225	ppbv#	90
112) 1,4-Dichlorobenzene(sim)	11.449	146	6859	0.238	ppbv	95
113) sec-Butylbenzene(sim)	11.469	105	10924	0.204	ppbv	96
114) 4-Isopropyltoluene(sim)	11.563	119	8827	0.195	ppbv#	90
115) 1,2-Dichlorobenzene(sim)	11.666	146	5107	0.222	ppbv	92
116) n-Butylbenzene(sim)	11.821	91	7372	0.193	ppbv	93
117) 1,2,4-Trichlorobenzene...	12.782	180	2126	0.271	ppbv	87
119) Hexachlorobutadiene(sim)	13.094	225	2129	0.181	ppbv	90

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM20\04APR\09\
Data File : 0409_15.D
Acq On : 09 Apr 2019 02:47 pm
Operator : CORTEX\ms
Client ID : ICAL 0.2
Lab ID : 0.2ppb
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 10 09:07:26 2019
Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_0409.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Wed Apr 10 09:07:16 2019
Response via : Initial Calibration

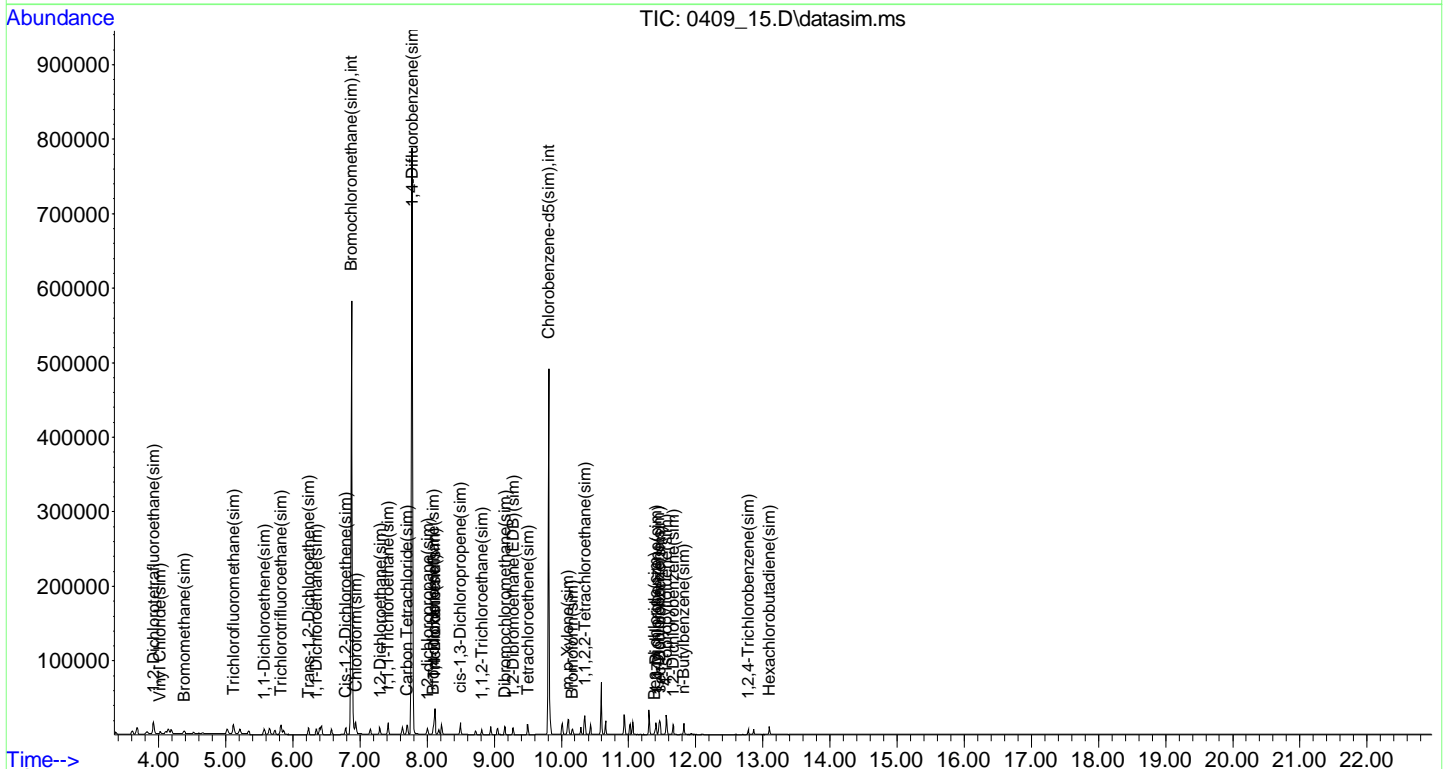
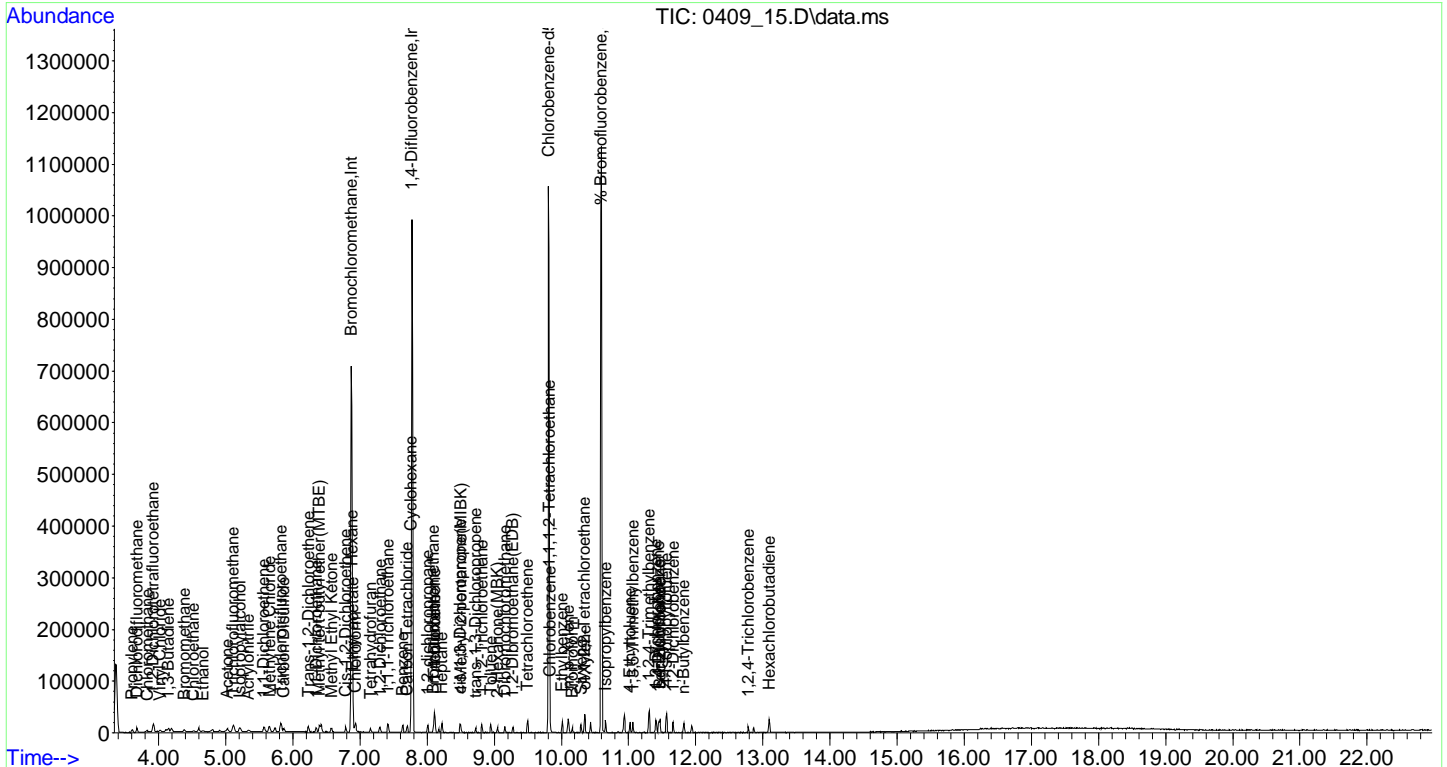
Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
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(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM20\04APR\09\
 Data File : 0409_15.D
 Acq On : 09 Apr 2019 02:47 pm
 Operator : CORTEX.ms
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 Quant Title : VOA Standards for 5 point calibration
 Last Update : Wed Apr 10 09:07:16 2019
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Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM20\04APR\09\
 Data File : 0409_16.D
 Acq On : 09 Apr 2019 03:24 pm
 Operator : CORTEX\ms
 Client ID : ICAL 10
 Lab ID : 10ppb cc
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 10 09:08:04 2019
 Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_0409.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Wed Apr 10 09:07:16 2019
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
Internal Standards						
1) Bromchloromethane	6.879	130	143775	10.000	ng	0.00
36) 1,4-Difluorobenzene	7.780	114	421079	10.000	ng	0.00
53) Chlorobenzene-d5	9.815	82	202928	10.000	ng	# 0.00
80) Bromchloromethane(sim)	6.882	130	192284	10.000	ng	# 0.00
94) 1,4-Difluorobenzene(sim)	7.775	114	473322	10.000	ng	0.00
104) Chlorobenzene-d5(sim)	9.810	82	212132	10.000	ng	# 0.00

System Monitoring Compounds						
62) % Bromfluorobenzene	10.596	95	274370	10.313	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	103.10%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propylene	3.597	41	172629	10.191	ppbv	97
3) Dichlorodifluoromethane	3.670	85	373294	10.125	ppbv#	96
4) Chloromethane	3.816	50	159552	10.360	ppbv	98
5) 1,2-Dichlorotetrafluor...	3.922	85	371361	10.355	ppbv	92
6) Vinyl Chloride	4.019	62	154920	10.356	ppbv	94
7) 1,3-Butadiene	4.141	54	136778	10.852	ppbv	89
8) Bromomethane	4.376	94	131081	10.468	ppbv#	97
9) Chloroethane	4.522	64	72025	10.259	ppbv	86
11) Ethanol	4.636	45	61778	9.986	ppbv	97
12) Acetone	5.001	43	329486	10.250	ppbv	90
13) Trichlorofluoromethane	5.114	101	504650	10.467	ppbv	99
14) Isopropylalcohol	5.187	45	339007	10.009	ppbv#	97
15) Acrylonitrile	5.341	53	96964	11.573	ppbv	97
16) 1,1-Dichloroethene	5.572	61	302816	10.446	ppbv#	74
17) Methylene Chloride	5.655	49	224864	10.437	ppbv#	57
20) Carbon Disulfide	5.864	76	320354	10.162	ppbv	99
21) Trichlorotrifluoroethane	5.822	101	293581	10.295	ppbv	89
22) Trans-1,2-Dichloroethene	6.234	61	262531	10.677	ppbv#	78
23) 1,1-Dichloroethane	6.354	63	316479	10.389	ppbv	95
24) Methyl tert-butyl ethe...	6.380	73	401061	10.700	ppbv#	72
25) Methyl Ethyl Ketone	6.562	43	434704	10.746	ppbv#	77
26) Cis-1,2-Dichloroethene	6.794	61	251371	10.647	ppbv#	72
27) Hexane	6.887	57	248049	10.670	ppbv#	82
28) Chloroform	6.941	83	349523	10.456	ppbv	92
29) Ethyl acetate	6.887	61	51298	11.359	ppbv#	74
30) Tetrahydrofuran	7.135	42	189727	11.147	ppbv#	61
31) 1,2-Dichloroethane	7.297	62	302411	10.607	ppbv#	91
32) 1,1,1-Trichloroethane	7.421	97	350018	10.732	ppbv#	92
33) Benzene	7.636	78	335586	10.644	ppbv#	87
34) Carbon Tetrachloride	7.704	117	317996	11.693	ppbv	98
35) Cyclohexane	7.763	41	134971	10.650	ppbv#	45
37) 1,2-dichloropropane	8.009	63	143515	10.591	ppbv#	83
38) Bromdichloromethane	8.094	83	293810	10.654	ppbv	98
39) Trichloroethene	8.111	130	159245	10.073	ppbv	90
41) 1,4-Dioxane	8.102	88	69269	10.542	ppbv#	67
43) Heptane	8.221	43	230294	10.844	ppbv#	71
44) cis-1,3-Dichloropropene	8.492	75	193934	11.298	ppbv	97
45) 4-Methyl-2-pentanone(M..	8.492	43	321343	11.048	ppbv#	83
46) trans-1,3-Dichloropropene	8.723	75	191358	11.548	ppbv	95
47) 1,1,2-Trichloroethane	8.815	97	137906	10.358	ppbv	91
48) Toluene	8.948	91	381801	11.058	ppbv	98
49) Dibromchloromethane	9.160	129	211265	10.353	ppbv	97
50) 2-Hexanone (MBK)	9.040	43	298193	11.254	ppbv#	89
51) 1,2-Dibromethane (EDB)	9.279	107	240739	10.722	ppbv	99

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM20\04APR\09\
 Data File : 0409_16.D
 Acq On : 09 Apr 2019 03:24 pm
 Operator : CORTEX.ms
 Client ID : ICAL 10
 Lab ID : 10ppb cc
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 10 09:08:04 2019
 Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_0409.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Wed Apr 10 09:07:16 2019
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
52) Tetrachloroethene	9.497	166	175496	10.496	ppbv#	88
54) 1,1,1,2-Tetrachloroethane	9.822	131	185560	11.889	ppbv	98
55) Chlorobenzene	9.837	112	318611	10.266	ppbv	95
56) Ethylbenzene	10.012	91	529052	11.006	ppbv	96
57) m p-Xylene	10.103	91	829719	22.614	ppbv	94
58) Bromoform	10.164	173	67101	5.137	ppbv	99
59) Styrene	10.292	104	298467	11.199	ppbv#	86
60) 1,1,2,2-Tetrachloroethane	10.345	83	299889	10.899	ppbv	91
61) o-Xylene	10.353	91	419421	10.925	ppbv	95
64) Isopropylbenzene	10.656	105	547216	10.835	ppbv	95
66) 4-Ethyltoluene	11.021	105	572245	11.260	ppbv	96
67) 1,3,5-Trimethylbenzene	11.066	105	479815	10.965	ppbv	95
68) 1,2,4-Trimethylbenzene	11.309	105	485436	11.330	ppbv	95
70) Benzyl chloride	11.400	91	327588	10.873	ppbv	93
71) 1,3-Dichlorobenzene	11.408	146	311408	10.917	ppbv	94
72) 1,4-Dichlorobenzene	11.453	146	303581	10.844	ppbv	96
73) sec-Butylbenzene	11.469	105	658073	11.016	ppbv	97
74) 4-Isopropyltoluene	11.560	119	586440	11.261	ppbv	95
75) 1,2-Dichlorobenzene	11.666	146	293411	10.822	ppbv	96
76) n-Butylbenzene	11.826	91	544073	11.586	ppbv	97
77) 1,2,4-Trichlorobenzene	12.782	180	132953	12.469	ppbv#	94
79) Hexachlorobutadiene	13.094	225	128204	11.279	ppbv	98
81) 1,2-Dichlorotetrafluor...	3.922	85	371165	9.486	ppbv	92
82) Vinyl Chloride(sim)	4.022	62	175867	9.488	ppbv	95
83) Bromomethane(sim)	4.376	94	131081	8.493	ppbv#	97
84) Trichlorofluoromethane...	5.117	101	602464	9.388	ppbv	99
85) 1,2-Dichloroethane(sim)	7.297	62	302411	9.734	ppbv#	91
86) 1,1,1-Trichloroethane(...)	7.424	97	428854	10.509	ppbv#	91
87) Carbon Tetrachloride(sim)	7.704	117	317996	12.693	ppbv	98
88) 1,1-Dichloroethene(sim)	5.575	61	347619	9.562	ppbv#	70
89) Trichlorotrifluoroetha...	5.822	101	293581	9.120	ppbv	100
90) Trans-1,2-Dichloroethe...	6.237	61	304613	9.889	ppbv#	78
91) 1,1-Dichloroethane(sim)	6.354	63	316479	9.376	ppbv	95
92) Cis-1,2-Dichloroethene...	6.789	61	292463	10.073	ppbv#	74
93) Chloroform(sim)	6.941	83	349523	9.594	ppbv#	92
95) 1,2-dichloropropane(sim)	8.009	63	143515	10.214	ppbv#	83
96) Bromdichloromethane(sim)	8.097	85	223909	11.391	ppbv	98
97) Trichloroethene(sim)	8.111	130	159245	9.339	ppbv	93
98) 1,4-Dioxane(sim)	8.105	88	75193	9.903	ppbv#	68
99) cis-1,3-Dichloropropen...	8.492	75	193934	13.042	ppbv	97
100) 1,1,2-Trichloroethane(...)	8.818	97	168754	10.527	ppbv	95
101) Dibromchloromethane(sim)	9.160	129	211265	11.255	ppbv	97
102) 1,2-Dibrommethane(EDB)...	9.282	107	292155	11.753	ppbv	98
103) Tetrachloroethene(sim)	9.497	166	175496	9.440	ppbv	88
105) Bromoform(sim)	10.164	173	67101	5.301	ppbv	99
106) m p-Xylene(sim)	10.098	91	870309	16.714	ppbv	94
107) 1,1,2,2-Tetrachloroeth...	10.345	83	299889	10.667	ppbv	97
110) Benzyl chloride(sim)	11.396	91	345877	8.453	ppbv	93
111) 1,3-Dichlorobenzene(sim)	11.408	146	311408	11.873	ppbv	94
112) 1,4-Dichlorobenzene(sim)	11.449	146	376780	12.546	ppbv	96
113) sec-Butylbenzene(sim)	11.469	105	657764	8.246	ppbv	97
114) 4-Isopropyltoluene(sim)	11.563	119	569511	8.241	ppbv	93
115) 1,2-Dichlorobenzene(sim)	11.666	146	293411	12.230	ppbv	96
116) n-Butylbenzene(sim)	11.821	91	572374	8.084	ppbv	95
117) 1,2,4-Trichlorobenzene...	12.782	180	132953	9.281	ppbv	94
119) Hexachlorobutadiene(sim)	13.094	225	128204	10.449	ppbv	98

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM20\04APR\09\
Data File : 0409_16.D
Acq On : 09 Apr 2019 03:24 pm
Operator : CORTEX\ms
Client ID : ICAL 10
Lab ID : 10ppb cc
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 10 09:08:04 2019
Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_0409.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Wed Apr 10 09:07:16 2019
Response via : Initial Calibration

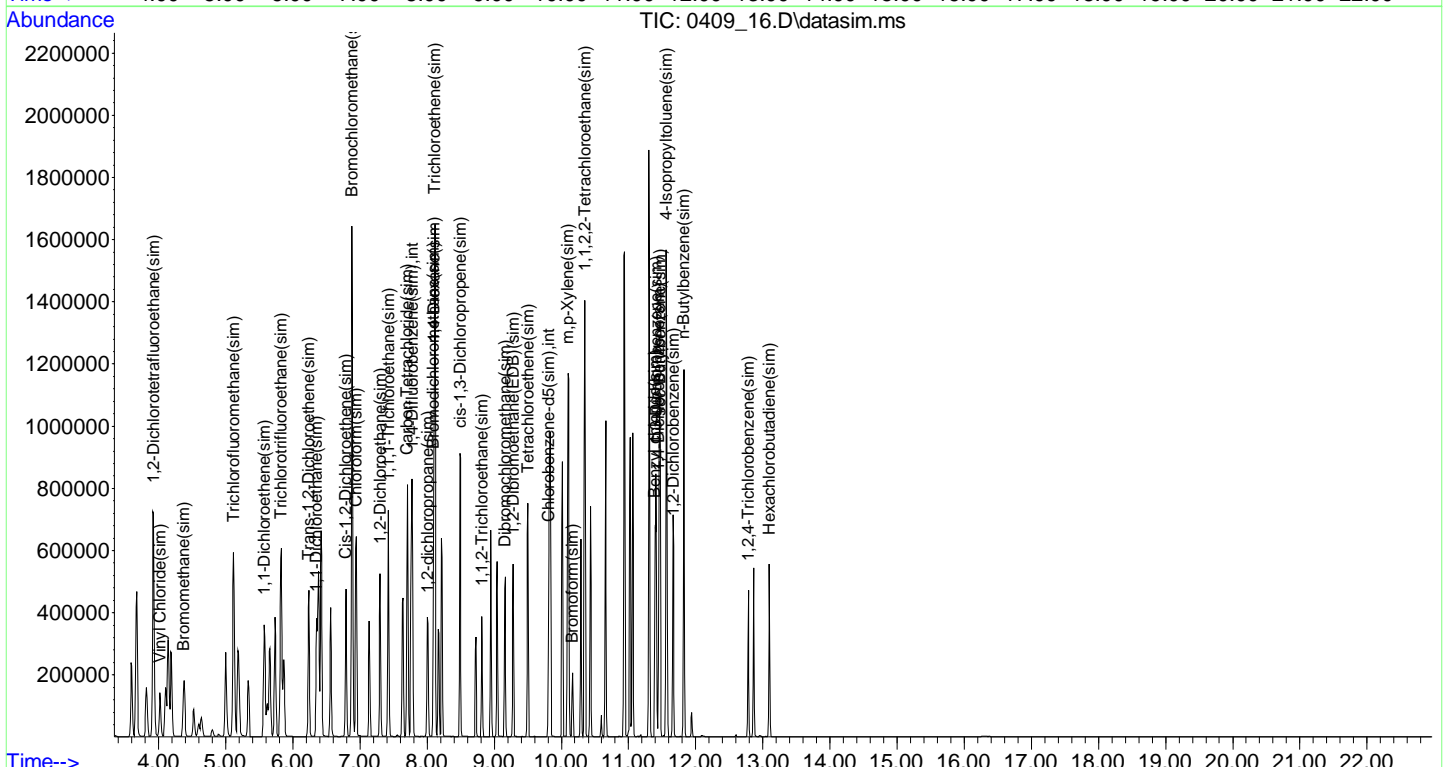
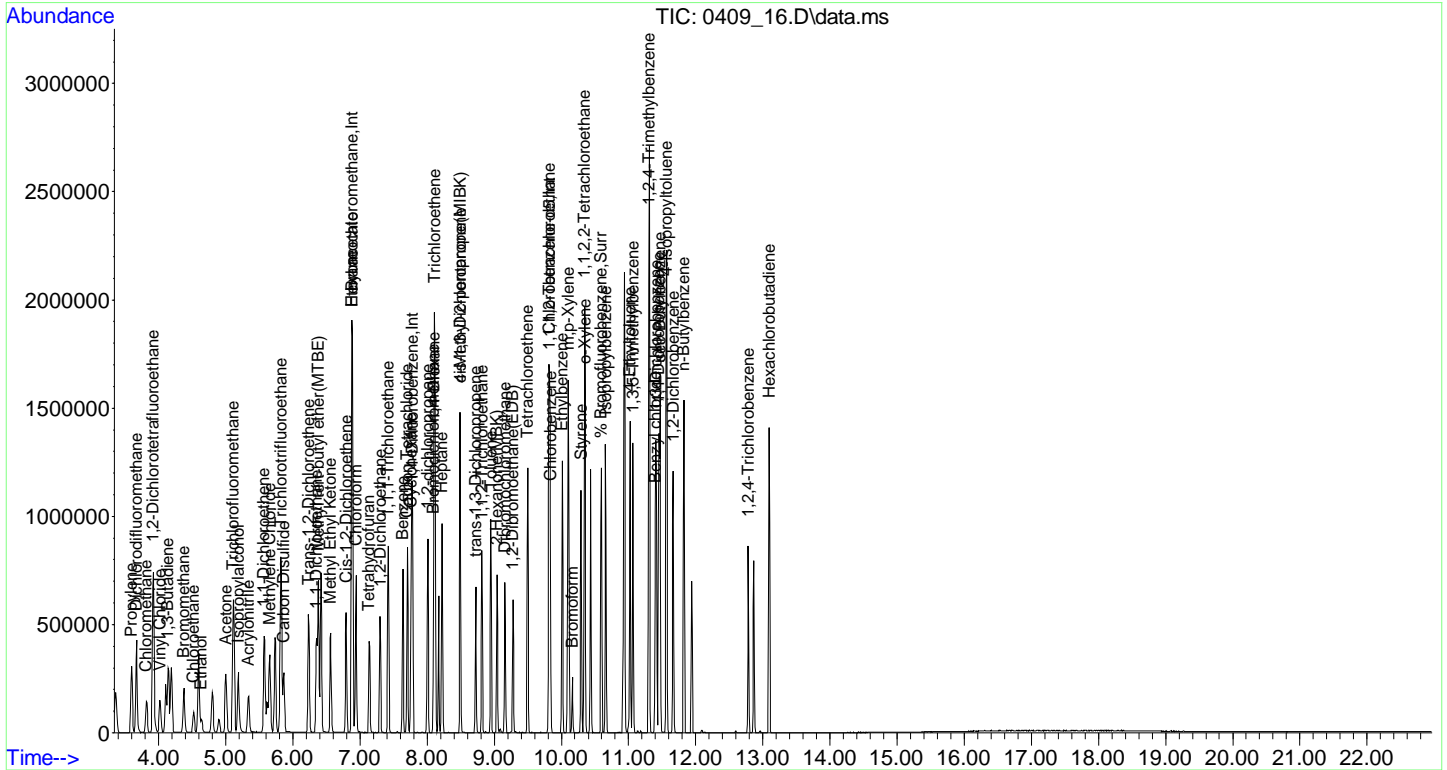
Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
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(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2019\CHEM20\04APR\09\
 Data File : 0409_16.D
 Acq On : 09 Apr 2019 03:24 pm
 Operator : CORTEX.ms
 Client ID : ICAL 10
 Lab ID : 10ppb cc
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 10 09:08:04 2019
 Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_0409.M
 Quant Title : VOA Standards for 5 point calibration
 Last Update : Wed Apr 10 09:07:16 2019
 Response via : Initial Calibration



7A
AIR CONTINUING CALIBRATION CHECK

Lab Name: Phoenix Environmental Labs Client: WALDENE
 Lab Code: Phoenix Case No.: _____ SAS No.: _____ SDG No.: GCC90508
 Instrument: CHEM20 Calibration Date: 04/09/19 Time: 14:09
 Lab File Id: 0409_14.D Init. Calib. Date(s): 04/09/19 04/09/19
 Heated Purge (Y/N): Y Init. Calib. Times: 07:45 15:24
 GC Column: RTX-1 60M Method File: 20_AIR_0409.M

COMPOUND	RRF	RRF50	RRF MIN	%D	% D LIMITS
Propylene	1.178	1.150		2.4	30
Dichlorodifluoromethane	2.564	2.556		0.3	30
Chloromethane	1.071	1.155		-7.8	30
1,2-Dichlorotetrafluoroethane	2.494	2.689		-7.8	30
Vinyl Chloride	1.041	1.160		-11.4	30
1,3-Butadiene	0.877	0.896		-2.2	30
Bromomethane	0.871	0.958		-10.0	30
Chloroethane	0.488	0.525		-7.6	30
Ethanol	0.430	0.482		-12.1	30
Acetone	2.236	2.356		-5.4	30
Trichlorofluoromethane	3.354	3.608		-7.6	30
Isopropylalcohol	2.356	2.590		-9.9	30
Acrylonitrile	0.583	0.560		3.9	30
1,1-Dichloroethene	2.016	2.128		-5.6	30
Methylene Chloride	1.499	1.554		-3.7	30
Carbon Disulfide	2.193	2.381		-8.6	30
Trichlorotrifluoroethane	1.983	2.149		-8.4	30
Trans-1,2-Dichloroethene	1.710	1.817		-6.3	30
1,1-Dichloroethane	2.119	2.326		-9.8	30
Methyl tert-butyl ether(MTBE)	2.607	2.808		-7.7	30
Methyl Ethyl Ketone	2.814	3.061		-8.8	30
Cis-1,2-Dichloroethene	1.642	1.763		-7.4	30
Hexane	1.617	1.760		-8.8	30
Chloroform	2.325	2.544		-9.4	30
Ethyl acetate	0.314	0.343		-9.2	30
Tetrahydrofuran	1.184	1.275		-7.7	30
1,2-Dichloroethane	1.983	2.109		-6.4	30
1,1,1-Trichloroethane	2.269	2.510		-10.6	30
Benzene	2.193	2.426		-10.6	30
Carbon Tetrachloride	1.892	2.104		-11.2	30
Cyclohexane	0.881	0.931		-5.7	30
1,2-dichloropropane	0.322	0.327		-1.6	30
Bromodichloromethane	0.655	0.678		-3.5	30
Trichloroethene	0.375	0.381		-1.6	30
1,4-Dioxane	0.156	0.158		-1.3	30
Heptane	0.504	0.518		-2.8	30

(#) Maximum %D not met.

7B
AIR CONTINUING CALIBRATION CHECK

Lab Name: Phoenix Environmental Labs Client: WALDENE
 Lab Code: Phoenix Case No.: _____ SAS No.: _____ SDG No.: GCC90508
 Instrument: CHEM20 Calibration Date: 04/09/19 Time: 14:09
 Lab File Id: 0409_14.D Init. Calib. Date(s): 04/09/19 04/09/19
 Heated Purge (Y/N): Y Init. Calib. Times: 07:45 15:24
 GC Column: RTX-1 60M Method File: 20_AIR_0409.M

COMPOUND	RRF	RRF50	RRF MIN	%D	% D LIMITS
cis-1,3-Dichloropropene	0.408	0.409		-0.2	30
4-Methyl-2-pentanone(MIBK)	0.691	0.679		1.7	30
trans-1,3-Dichloropropene	0.394	0.365		7.4	30
1,1,2-Trichloroethane	0.316	0.302		4.4	30
Toluene	0.820	0.801		2.3	30
Dibromochloromethane	0.485	0.525		-8.2	30
2-Hexanone(MBK)	0.629	0.592		5.9	30
1,2-Dibromoethane(EDB)	0.533	0.528		0.9	30
Tetrachloroethene	0.397	0.392		1.3	30
1,1,1,2-Tetrachloroethane	0.769	0.772		-0.4	30
Chlorobenzene	1.529	1.519		0.7	30
Ethylbenzene	2.369	2.402		-1.4	30
m,p-Xylene	1.808	1.517		16.1	30
Bromoform	0.644	0.732		-13.7	30
Styrene	1.313	1.249		4.9	30
1,1,2,2-Tetrachloroethane	1.356	1.411		-4.1	30
o-Xylene	1.892	1.951		-3.1	30
Isopropylbenzene	2.489	2.427		2.5	30
4-Ethyltoluene	2.504	2.458		1.8	30
1,3,5-Trimethylbenzene	2.156	2.184		-1.3	30
1,2,4-Trimethylbenzene	2.111	2.173		-2.9	30
Benzyl chloride	0.000	1.203			30
1,3-Dichlorobenzene	1.406	1.407		-0.1	30
1,4-Dichlorobenzene	1.380	1.362		1.3	30
sec-Butylbenzene	2.944	2.959		-0.5	30
4-Isopropyltoluene	2.566	2.592		-1.0	30
1,2-Dichlorobenzene	1.336	1.358		-1.6	30
n-Butylbenzene	2.314	2.199		5.0	30
1,2,4-Trichlorobenzene	0.525	0.430		18.1	30
Hexachlorobutadiene	0.560	0.550		1.8	30
1,2-Dichlorotetrafluoroethane(sim)	2.035	1.972		3.1	30
Vinyl Chloride(sim)	0.964	0.929		3.6	30
Bromomethane(sim)	0.803	0.702		12.6	30
Trichlorofluoromethane(sim)	3.337	3.194		4.3	30
1,2-Dichloroethane(sim)	1.616	1.546		4.3	30
1,1,1-Trichloroethane(sim)	2.122	2.243		-5.7	30

(#) Maximum %D not met.

7B
AIR CONTINUING CALIBRATION CHECK

Lab Name: Phoenix Environmental Labs Client: WALDENE
 Lab Code: Phoenix Case No.: _____ SAS No.: _____ SDG No.: GCC90508
 Instrument: CHEM20 Calibration Date: 04/09/19 Time: 14:09
 Lab File Id: 0409_14.D Init. Calib. Date(s): 04/09/19 04/09/19
 Heated Purge (Y/N): Y Init. Calib. Times: 07:45 15:24
 GC Column: RTX-1 60M Method File: 20_AIR_0409.M

COMPOUND	RRF	RRF50	RRF MIN	%D	% D LIMITS
Carbon Tetrachloride(sim)	1.303	1.543		-18.4	30
1,1-Dichloroethene(sim)	1.891	1.830		3.2	30
Trichlorotrifluoroethane(sim)	1.674	1.576		5.9	30
Trans-1,2-Dichloroethene(sim)	1.602	1.571		1.9	30
1,1-Dichloroethane(sim)	1.755	1.705		2.8	30
Cis-1,2-Dichloroethene(sim)	1.510	1.490		1.3	30
Chloroform(sim)	1.895	1.865		1.6	30
1,2-dichloropropane(sim)	0.297	0.286		3.7	30
Bromodichloromethane(sim)	0.415	0.443		-6.7	30
Trichloroethene(sim)	0.360	0.333		7.5	30
1,4-Dioxane(sim)	0.160	0.148		7.5	30
cis-1,3-Dichloropropene(sim)	0.314	0.357		-13.7	30
1,1,2-Trichloroethane(sim)	0.339	0.327		3.5	30
Dibromochloromethane(sim)	0.397	0.460		-15.9	30
1,2-Dibromoethane(EDB)(sim)	0.525	0.553		-5.3	30
Tetrachloroethene(sim)	0.393	0.343		12.7	30
Bromoform(sim)	0.597	0.731		-22.4	30
m,p-Xylene(sim)	0.000	2.099			30
1,1,1,2-Tetrachloroethane(sim)	1.325	1.408		-6.3	30
Benzyl chloride(sim)	0.000	2.413			30
1,3-Dichlorobenzene(sim)	1.236	1.404		-13.6	30
1,4-Dichlorobenzene(sim)	1.416	1.698		-19.9	30
sec-Butylbenzene(sim)	0.000	1.053			30
4-Isopropyltoluene(sim)	0.000	1.036			30
1,2-Dichlorobenzene(sim)	1.131	1.355		-19.8	30
n-Butylbenzene(sim)	0.000	1.039			30
1,2,4-Trichlorobenzene(sim)	0.000	1.100			30
Hexachlorobutadiene(sim)	0.578	0.549		5.0	30
% Bromofluorobenzene	1.311	1.324		-1.0	30

(#) Maximum %D not met.

Evaluate Continuing Calibration Report

Data Path : H:\AIR2019\CHEM20\04APR\09\
 Data File : 0409_14.D
 Acq On : 09 Apr 2019 02:09 pm
 Operator : CORTEX.ms
 Client ID : BFB TUNE
 Lab ID : 1ppb cc
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 10 09:42:49 2019
 Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_0409.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Wed Apr 10 09:42:38 2019
 Response via : Initial Calibration

Note: Curves (l, lf, q, qf) display calculated concentration.
 Mn. RRF : 0.000 Mn. Rel. Area : 50% Max. R.T. Dev 0.20min
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%
1 Int	Bromochloromethane	1.000	1.000	0.0	100
2	Propylene	1.178	1.150	2.4	
3	Dichlorodifluoromethane	2.564	2.556	0.3	
4	Chloromethane	1.071	1.155	-7.8	
5	1,2-Dichlorotetrafluoroetha	2.494	2.689	-7.8	
6	Vinyl Chloride	1.041	1.160	-11.4	
7	1,3-Butadiene	0.877	0.896	-2.2	
8	Bromomethane	0.871	0.958	-10.0	
9	Chloroethane	0.488	0.525	-7.6	
11	Ethanol	0.430	0.482	-12.1	
12	Acetone	2.236	2.356	-5.4	
13	Trichlorofluoromethane	3.354	3.608	-7.6	
14	Isopropylalcohol	2.356	2.590	-9.9	
15	Acrylonitrile	0.583	0.560	3.9	
16	1,1-Dichloroethene	2.016	2.128	-5.6	
17	Methylene Chloride	1.499	1.554	-3.7	
20	Carbon Disulfide	2.193	2.381	-8.6	
21	Trichlorotrifluoroethane	1.983	2.149	-8.4	
22	Trans-1,2-Dichloroethene	1.710	1.817	-6.3	
23	1,1-Dichloroethane	2.119	2.326	-9.8	
24	Methyl tert-butyl ether (MTB)	2.607	2.808	-7.7	
25	Methyl Ethyl Ketone	2.814	3.061	-8.8	
26	Cis-1,2-Dichloroethene	1.642	1.763	-7.4	
27	Hexane	1.617	1.760	-8.8	
28	Chloroform	2.325	2.544	-9.4	
29	Ethyl acetate	0.314	0.343	-9.2	
30	Tetrahydrofuran	1.184	1.275	-7.7	
31	1,2-Dichloroethane	1.983	2.109	-6.4	
32	1,1,1-Trichloroethane	2.269	2.510	-10.6	
33	Benzene	2.193	2.426	-10.6	
34	Carbon Tetrachloride	1.892	2.104	-11.2	
35	Cyclohexane	0.881	0.931	-5.7	
36 Int	1,4-Difluorobenzene	1.000	1.000	0.0	100
37	1,2-dichloropropane	0.322	0.327	-1.6	
38	Bromdichloromethane	0.655	0.678	-3.5	
39	Trichloroethene	0.375	0.381	-1.6	
41	1,4-Dioxane	0.156	0.158	-1.3	
43	Heptane	0.504	0.518	-2.8	
44	cis-1,3-Dichloropropene	0.408	0.409	-0.2	
45	4-Methyl-2-pentanone (MBK)	0.691	0.679	1.7	
46	trans-1,3-Dichloropropene	0.394	0.365	7.4	
47	1,1,2-Trichloroethane	0.316	0.302	4.4	
48	Toluene	0.820	0.801	2.3	
49	Dibromochloromethane	0.485	0.525	-8.2	
50	2-Hexanone (MBK)	0.629	0.592	5.9	
51	1,2-Dibromethane (EDB)	0.533	0.528	0.9	
52	Tetrachloroethene	0.397	0.392	1.3	
53 Int	Chlorobenzene-d5	1.000	1.000	0.0	100
54	1,1,1,2-Tetrachloroethane	0.769	0.772	-0.4	
55	Chlorobenzene	1.529	1.519	0.7	
56	Ethylbenzene	2.369	2.402	-1.4	

Evaluate Continuing Calibration Report

Data Path : H:\AIR2019\CHEM20\04APR\09\
 Data File : 0409_14.D
 Acq On : 09 Apr 2019 02:09 pm
 Operator : CORTEX\ms
 Client ID : BFB TUNE
 Lab ID : 1ppb cc
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 10 09:42:49 2019
 Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_0409.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Wed Apr 10 09:42:38 2019
 Response via : Initial Calibration

Note: Curves (l, lf, q, qf) display calculated concentration.
 Mn. RRF : 0.000 Mn. Rel. Area : 50% Max. R.T. Dev 0.20min
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%
57	m p-Xylene	1.808	1.517	16.1	
58	Bromform	0.644	0.732	-13.7	
59	Styrene	1.313	1.249	4.9	
60	1, 1, 2, 2-Tetrachloroethane	1.356	1.411	-4.1	
61	o-Xylene	1.892	1.951	-3.1	
62	Surr % Bromofluorobenzene	1.311	1.324	-1.0	
64	Isopropylbenzene	2.489	2.427	2.5	
66	4-Ethyltoluene	2.504	2.458	1.8	
67	1, 3, 5-Trimethylbenzene	2.156	2.184	-1.3	
68	1, 2, 4-Trimethylbenzene	2.111	2.173	-2.9	
70	q Benzyl chloride	1.000	0.914	8.6#	
71	1, 3-Dichlorobenzene	1.406	1.407	-0.1	
72	1, 4-Dichlorobenzene	1.380	1.362	1.3	
73	sec-Butylbenzene	2.944	2.959	-0.5	
74	4-Isopropyltoluene	2.566	2.592	-1.0	
75	1, 2-Dichlorobenzene	1.336	1.358	-1.6	
76	n-Butylbenzene	2.314	2.199	5.0	
77	1, 2, 4-Trichlorobenzene	0.525	0.430	18.1	
79	Hexachlorobutadiene	0.560	0.550	1.8	
80	int Bromochloromethane(sim)	1.000	1.000	0.0	100
81	1, 2-Dichlorotetrafluoroetha	2.035	1.972	3.1	
82	Vinyl Chloride(sim)	0.964	0.929	3.6	
83	Bromomethane(sim)	0.803	0.702	12.6	
84	Trichlorofluoromethane(sim)	3.337	3.194	4.3	
85	1, 2-Dichloroethane(sim)	1.616	1.546	4.3	
86	1, 1, 1-Trichloroethane(sim)	2.122	2.243	-5.7	
87	Carbon Tetrachloride(sim)	1.303	1.543	-18.4	
88	1, 1-Dichloroethene(sim)	1.891	1.830	3.2	
89	Trichlorotrifluoroethane(si	1.674	1.576	5.9	
90	Trans-1, 2-Dichloroethene(si	1.602	1.571	1.9	
91	1, 1-Dichloroethane(sim)	1.755	1.705	2.8	
92	Cis-1, 2-Dichloroethene(sim)	1.510	1.490	1.3	
93	Chloroform(sim)	1.895	1.865	1.6	
94	int 1, 4-Difluorobenzene(sim)	1.000	1.000	0.0	100
95	1, 2-dichloropropane(sim)	0.297	0.286	3.7	
96	Bromdichloromethane(sim)	0.415	0.443	-6.7	
97	Trichloroethene(sim)	0.360	0.333	7.5	
98	1, 4-Dioxane(sim)	0.160	0.148	7.5	
99	cis-1, 3-Dichloropropene(sim)	0.314	0.357	-13.7	
100	1, 1, 2-Trichloroethane(sim)	0.339	0.327	3.5	
101	Dibromochloromethane(sim)	0.397	0.460	-15.9	
102	1, 2-Dibromoethane(EDB)(sim)	0.525	0.553	-5.3	
103	Tetrachloroethene(sim)	0.393	0.343	12.7	
104	int Chlorobenzene-d5(sim)	1.000	1.000	0.0	100
105	Bromform(sim)	0.597	0.731	-22.4	
106	q m p-Xylene(sim)	2.000	2.092	-4.6	
107	1, 1, 2, 2-Tetrachloroethane(s	1.325	1.408	-6.3	
110	q Benzyl chloride(sim)	1.000	1.191	-19.1#	
111	1, 3-Dichlorobenzene(sim)	1.236	1.404	-13.6	
112	1, 4-Dichlorobenzene(sim)	1.416	1.698	-19.9	

Evaluate Continuing Calibration Report

Data Path : H:\AIR2019\CHEM20\04APR\09\
 Data File : 0409_14.D
 Acq On : 09 Apr 2019 02:09 pm
 Operator : CORTEX\ms
 Client ID : BFB TUNE
 Lab ID : 1ppb cc
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 10 09:42:49 2019
 Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_0409.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Wed Apr 10 09:42:38 2019
 Response via : Initial Calibration

Note: Curves (l, lf, q, qf) display calculated concentration.
 Mn. RRF : 0.000 Mn. Rel. Area : 50% Max. R.T. Dev 0.20min
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev Area%
113 q	sec-Butylbenzene(sim)	1.000	1.051	-5.1
114 q	4-Isopropyltoluene(sim)	1.000	1.046	-4.6
115	1,2-Dichlorobenzene(sim)	1.131	1.355	-19.8
116 q	n-Butylbenzene(sim)	1.000	1.056	-5.6
117 q	1,2,4-Trichlorobenzene(sim)	1.000	1.055	-5.5
119	Hexachlorobutadiene(sim)	0.578	0.549	5.0

(#)=Out of Range l=linear, lf=liner(0,0), q=quadratic, qf=quadratic(0,0)
 Laboratory Warning Limits Out = 0

7A
AIR CONTINUING CALIBRATION CHECK
Initial Cal as Continuing Cal

Lab Name: Phoenix Environmental Labs Client: WALDENE
 Lab Code: Phoenix Case No.: _____ SAS No.: _____ SDG No.: GCC90508
 Instrument: CHEM20 Calibration Date: 04/10/19 Time: 07:47
 Lab File Id: 0409_41.D Init. Calib. Date(s): 04/09/19 04/09/19
 Heated Purge (Y/N): Y Init. Calib. Times: 07:45 15:24
 GC Column: RTX-1 60M Method File: 20_AIR_0409.M

COMPOUND	RRF	RRF1	RRF MIN	%D	% D LIMITS
Propylene	1.178	1.187		-0.8	30
Dichlorodifluoromethane	2.564	2.749		-7.2	30
Chloromethane	1.071	1.317		-23.0	30
1,2-Dichlorotetrafluoroethane	2.494	3.015		-20.9	30
Vinyl Chloride	1.041	1.269		-21.9	30
1,3-Butadiene	0.877	1.133		-29.2	30
Bromomethane	0.871	0.999		-14.7	30
Chloroethane	0.488	0.574		-17.6	30
Ethanol	0.430	0.584		-35.8 #	30
Acetone	2.236	2.821		-26.2	30
Trichlorofluoromethane	3.354	3.936		-17.4	30
Isopropylalcohol	2.356	3.121		-32.5 #	30
Acrylonitrile	0.583	1.045		-79.2 #	30
1,1-Dichloroethene	2.016	2.501		-24.1	30
Methylene Chloride	1.499	1.908		-27.3	30
Carbon Disulfide	2.193	2.705		-23.3	30
Trichlorotrifluoroethane	1.983	2.419		-22.0	30
Trans-1,2-Dichloroethene	1.710	1.800		-5.3	30
1,1-Dichloroethane	2.119	2.303		-8.7	30
Methyl tert-butyl ether(MTBE)	2.607	2.626		-0.7	30
Methyl Ethyl Ketone	2.814	3.219		-14.4	30
Cis-1,2-Dichloroethene	1.642	1.729		-5.3	30
Hexane	1.617	1.811		-12.0	30
Chloroform	2.325	2.485		-6.9	30
Ethyl acetate	0.314	0.347		-10.5	30
Tetrahydrofuran	1.184	1.307		-10.4	30
1,2-Dichloroethane	1.983	2.285		-15.2	30
1,1,1-Trichloroethane	2.269	2.652		-16.9	30
Benzene	2.193	2.392		-9.1	30
Carbon Tetrachloride	1.892	2.233		-18.0	30
Cyclohexane	0.881	1.086		-23.3	30
1,2-dichloropropane	0.322	0.317		1.6	30
Bromodichloromethane	0.655	0.684		-4.4	30
Trichloroethene	0.375	0.356		5.1	30
1,4-Dioxane	0.156	0.157		-0.6	30
Heptane	0.504	0.516		-2.4	30

(#) Maximum %D not met.

7B
AIR CONTINUING CALIBRATION CHECK
Initial Cal as Continuing Cal

Lab Name: Phoenix Environmental Labs Client: WALDENE
 Lab Code: Phoenix Case No.: _____ SAS No.: _____ SDG No.: GCC90508
 Instrument: CHEM20 Calibration Date: 04/10/19 Time: 07:47
 Lab File Id: 0409_41.D Init. Calib. Date(s): 04/09/19 04/09/19
 Heated Purge (Y/N): Y Init. Calib. Times: 07:45 15:24
 GC Column: RTX-1 60M Method File: 20_AIR_0409.M

COMPOUND	RRF	RRF1	RRF MIN	%D	% D LIMITS
cis-1,3-Dichloropropene	0.408	0.399		2.2	30
4-Methyl-2-pentanone(MIBK)	0.691	0.702		-1.6	30
trans-1,3-Dichloropropene	0.394	0.363		7.9	30
1,1,2-Trichloroethane	0.316	0.306		3.2	30
Toluene	0.820	0.767		6.5	30
Dibromochloromethane	0.485	0.535		-10.3	30
2-Hexanone(MBK)	0.629	0.580		7.8	30
1,2-Dibromoethane(EDB)	0.533	0.521		2.3	30
Tetrachloroethene	0.397	0.392		1.3	30
1,1,1,2-Tetrachloroethane	0.769	0.735		4.4	30
Chlorobenzene	1.529	1.450		5.2	30
Ethylbenzene	2.369	2.221		6.2	30
m,p-Xylene	1.808	1.442		20.2	30
Bromoform	0.644	0.703		-9.2	30
Styrene	1.313	1.152		12.3	30
1,1,2,2-Tetrachloroethane	1.356	1.415		-4.4	30
o-Xylene	1.892	1.875		0.9	30
Isopropylbenzene	2.489	2.338		6.1	30
4-Ethyltoluene	2.504	2.383		4.8	30
1,3,5-Trimethylbenzene	2.156	2.064		4.3	30
1,2,4-Trimethylbenzene	2.111	2.010		4.8	30
Benzyl chloride	0.000	0.521			30
1,3-Dichlorobenzene	1.406	1.297		7.8	30
1,4-Dichlorobenzene	1.380	1.255		9.1	30
sec-Butylbenzene	2.944	2.840		3.5	30
4-Isopropyltoluene	2.566	2.319		9.6	30
1,2-Dichlorobenzene	1.336	1.213		9.2	30
n-Butylbenzene	2.314	1.925		16.8	30
1,2,4-Trichlorobenzene	0.525	0.281		46.5 #	30
Hexachlorobutadiene	0.560	0.462		17.5	30
1,2-Dichlorotetrafluoroethane(sim)	2.035	2.191		-7.7	30
Vinyl Chloride(sim)	0.964	1.039		-7.8	30
Bromomethane(sim)	0.803	0.726		9.6	30
Trichlorofluoromethane(sim)	3.337	3.546		-6.3	30
1,2-Dichloroethane(sim)	1.616	1.661		-2.8	30
1,1,1-Trichloroethane(sim)	2.122	2.343		-10.4	30

(#) Maximum %D not met.

7B
AIR CONTINUING CALIBRATION CHECK
Initial Cal as Continuing Cal

Lab Name: Phoenix Environmental Labs Client: WALDENE

Lab Code: Phoenix Case No.: _____ SAS No.: _____ SDG No.: GCC90508

Instrument: CHEM20 Calibration Date: 04/10/19 Time: 07:47

Lab File Id: 0409_41.D Init. Calib. Date(s): 04/09/19 04/09/19

Heated Purge (Y/N): Y Init. Calib. Times: 07:45 15:24

GC Column: RTX-1 60M Method File: 20_AIR_0409.M

COMPOUND	RRF	RRF1	RRF MIN	%D	% D LIMITS
Carbon Tetrachloride(sim)	1.303	1.623		-24.6	30
1,1-Dichloroethene(sim)	1.891	2.092		-10.6	30
Trichlorotrifluoroethane(sim)	1.674	1.758		-5.0	30
Trans-1,2-Dichloroethene(sim)	1.602	1.516		5.4	30
1,1-Dichloroethane(sim)	1.755	1.674		4.6	30
Cis-1,2-Dichloroethene(sim)	1.510	1.486		1.6	30
Chloroform(sim)	1.895	1.806		4.7	30
1,2-dichloropropane(sim)	0.297	0.280		5.7	30
Bromodichloromethane(sim)	0.415	0.461		-11.1	30
Trichloroethene(sim)	0.360	0.315		12.5	30
1,4-Dioxane(sim)	0.160	0.144		10.0	30
cis-1,3-Dichloropropene(sim)	0.314	0.353		-12.4	30
1,1,2-Trichloroethane(sim)	0.339	0.334		1.5	30
Dibromochloromethane(sim)	0.397	0.472		-18.9	30
1,2-Dibromoethane(EDB)(sim)	0.525	0.556		-5.9	30
Tetrachloroethene(sim)	0.393	0.346		12.0	30
Bromoform(sim)	0.597	0.715		-19.8	30
m,p-Xylene(sim)	0.000	1.934			30
1,1,2,2-Tetrachloroethane(sim)	1.325	1.427		-7.7	30
Benzyl chloride(sim)	0.000	0.792			30
1,3-Dichlorobenzene(sim)	1.236	1.308		-5.8	30
1,4-Dichlorobenzene(sim)	1.416	1.544		-9.0	30
sec-Butylbenzene(sim)	0.000	2.862			30
4-Isopropyltoluene(sim)	0.000	2.323			30
1,2-Dichlorobenzene(sim)	1.131	1.223		-8.1	30
n-Butylbenzene(sim)	0.000	2.029			30
1,2,4-Trichlorobenzene(sim)	0.000	0.283			30
Hexachlorobutadiene(sim)	0.578	0.466		19.4	30
% Bromofluorobenzene	1.311	1.334		-1.8	30

(#) Maximum %D not met.

Evaluate Continuing Calibration Report

Data Path : H:\AIR2019\CHEM20\04APR\09\
 Data File : 0409_41.D
 Acq On : 10 Apr 2019 07:47 am
 Operator : CORTEX.ms
 Client ID : BFB TUNE - CCAL 1
 Lab ID : 1ppb cc - 1ppb cc
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 10 11:14:18 2019
 Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_0409.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Wed Apr 10 09:07:16 2019
 Response via : Initial Calibration

Note: Curves (l, lf, q, qf) display calculated concentration.
 Mn. RRF : 0.000 Mn. Rel. Area : 50% Max. R.T. Dev 0.20min
 Max. RRF Dev : 30% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%
1 Int Bromochloromethane	1.000	1.000	0.0	82
2 Propylene	1.178	1.187	-0.8	
3 Dichlorodifluoromethane	2.564	2.749	-7.2	
4 Chloromethane	1.071	1.317	-23.0	
5 1,2-Dichlorotetrafluoroethane	2.494	3.015	-20.9	
6 Vinyl Chloride	1.041	1.269	-21.9	
7 1,3-Butadiene	0.877	1.133	-29.2	
8 Bromomethane	0.871	0.999	-14.7	
9 Chloroethane	0.488	0.574	-17.6	
11 Ethanol	0.430	0.584	-35.8#	
12 Acetone	2.236	2.821	-26.2	
13 Trichlorofluoromethane	3.354	3.936	-17.4	
14 Isopropylalcohol	2.356	3.121	-32.5#	
15 Acrylonitrile	0.583	1.045	-79.2#	
16 1,1-Dichloroethene	2.016	2.501	-24.1	
17 Methylene Chloride	1.499	1.908	-27.3	
20 Carbon Disulfide	2.193	2.705	-23.3	
21 Trichlorotrifluoroethane	1.983	2.419	-22.0	
22 Trans-1,2-Dichloroethene	1.710	1.800	-5.3	
23 1,1-Dichloroethane	2.119	2.303	-8.7	
24 Methyl tert-butyl ether (MTB)	2.607	2.626	-0.7	
25 Methyl Ethyl Ketone	2.814	3.219	-14.4	
26 Cis-1,2-Dichloroethene	1.642	1.729	-5.3	
27 Hexane	1.617	1.811	-12.0	
28 Chloroform	2.325	2.485	-6.9	
29 Ethyl acetate	0.314	0.347	-10.5	
30 Tetrahydrofuran	1.184	1.307	-10.4	
31 1,2-Dichloroethane	1.983	2.285	-15.2	
32 1,1,1-Trichloroethane	2.269	2.652	-16.9	
33 Benzene	2.193	2.392	-9.1	
34 Carbon Tetrachloride	1.892	2.233	-18.0	
35 Cyclohexane	0.881	1.086	-23.3	
36 Int 1,4-Difluorobenzene	1.000	1.000	0.0	87
37 1,2-dichloropropane	0.322	0.317	1.6	
38 Bromodichloromethane	0.655	0.684	-4.4	
39 Trichloroethene	0.375	0.356	5.1	
41 1,4-Dioxane	0.156	0.157	-0.6	
43 Heptane	0.504	0.516	-2.4	
44 cis-1,3-Dichloropropene	0.408	0.399	2.2	
45 4-Methyl-2-pentanone (MBK)	0.691	0.702	-1.6	
46 trans-1,3-Dichloropropene	0.394	0.363	7.9	
47 1,1,2-Trichloroethane	0.316	0.306	3.2	
48 Toluene	0.820	0.767	6.5	
49 Dibromochloromethane	0.485	0.535	-10.3	
50 2-Hexanone (MBK)	0.629	0.580	7.8	
51 1,2-Dibromethane (EDB)	0.533	0.521	2.3	
52 Tetrachloroethene	0.397	0.392	1.3	
53 Int Chlorobenzene-d5	1.000	1.000	0.0	90
54 1,1,1,2-Tetrachloroethane	0.769	0.735	4.4	
55 Chlorobenzene	1.529	1.450	5.2	
56 Ethylbenzene	2.369	2.221	6.2	

Evaluate Continuing Calibration Report

Data Path : H:\AIR2019\CHEM20\04APR\09\
 Data File : 0409_41.D
 Acq On : 10 Apr 2019 07:47 am
 Operator : CORTEX.ms
 Client ID : BFB TUNE - CCAL 1
 Lab ID : 1ppb cc - 1ppb cc
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 10 11:14:18 2019
 Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_0409.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Wed Apr 10 09:07:16 2019
 Response via : Initial Calibration

Note: Curves (l, lf, q, qf) display calculated concentration.
 Mn. RRF : 0.000 Mn. Rel. Area : 50% Max. R.T. Dev 0.20min
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%
57	m p-Xylene	1.808	1.442	20.2	
58	Bromform	0.644	0.703	-9.2	
59	Styrene	1.313	1.152	12.3	
60	1, 1, 2, 2-Tetrachloroethane	1.356	1.415	-4.4	
61	o-Xylene	1.892	1.875	0.9	
62	Surr % Bromofluorobenzene	1.311	1.334	-1.8	
64	Isopropylbenzene	2.489	2.338	6.1	
66	4-Ethyltoluene	2.504	2.383	4.8	
67	1, 3, 5-Trimethylbenzene	2.156	2.064	4.3	
68	1, 2, 4-Trimethylbenzene	2.111	2.010	4.8	
70	q Benzyl chloride	1.000	0.890	11.0#	
71	1, 3-Dichlorobenzene	1.406	1.297	7.8	
72	1, 4-Dichlorobenzene	1.380	1.255	9.1	
73	sec-Butylbenzene	2.944	2.840	3.5	
74	4-Isopropyltoluene	2.566	2.319	9.6	
75	1, 2-Dichlorobenzene	1.336	1.213	9.2	
76	n-Butylbenzene	2.314	1.925	16.8	
77	1, 2, 4-Trichlorobenzene	0.525	0.281	46.5#	
79	Hexachlorobutadiene	0.560	0.462	17.5	
80	int Bromochloromethane(sim)	1.000	1.000	0.0	82
81	1, 2-Dichlorotetrafluoroetha	2.035	2.191	-7.7	
82	Vinyl Chloride(sim)	0.964	1.039	-7.8	
83	Brommethane(sim)	0.803	0.726	9.6	
84	Trichlorofluoromethane(sim)	3.337	3.546	-6.3	
85	1, 2-Dichloroethane(sim)	1.616	1.661	-2.8	
86	1, 1, 1-Trichloroethane(sim)	2.122	2.343	-10.4	
87	Carbon Tetrachloride(sim)	1.303	1.623	-24.6	
88	1, 1-Dichloroethene(sim)	1.891	2.092	-10.6	
89	Trichlorotri fluoroethane(si	1.674	1.758	-5.0	
90	Trans-1, 2-Dichloroethene(si	1.602	1.516	5.4	
91	1, 1-Dichloroethane(sim)	1.755	1.674	4.6	
92	Cis-1, 2-Dichloroethene(sim)	1.510	1.486	1.6	
93	Chloroform(sim)	1.895	1.806	4.7	
94	int 1, 4-Difluorobenzene(sim)	1.000	1.000	0.0	86
95	1, 2-dichloropropane(sim)	0.297	0.280	5.7	
96	Bromdichloromethane(sim)	0.415	0.461	-11.1	
97	Trichloroethene(sim)	0.360	0.315	12.5	
98	1, 4-Dioxane(sim)	0.160	0.144	10.0	
99	cis-1, 3-Dichloropropene(sim)	0.314	0.353	-12.4	
100	1, 1, 2-Trichloroethane(sim)	0.339	0.334	1.5	
101	Dibromochloromethane(sim)	0.397	0.472	-18.9	
102	1, 2-Dibromoethane(EDB)(sim)	0.525	0.556	-5.9	
103	Tetrachloroethene(sim)	0.393	0.346	12.0	
104	int Chlorobenzene-d5(sim)	1.000	1.000	0.0	89
105	Bromform(sim)	0.597	0.715	-19.8	
106	q m p-Xylene(sim)	2.000	2.014	-0.7	
107	1, 1, 2, 2-Tetrachloroethane(s	1.325	1.427	-7.7	
110	q Benzyl chloride(sim)	1.000	1.063	-6.3	
111	1, 3-Dichlorobenzene(sim)	1.236	1.308	-5.8	
112	1, 4-Dichlorobenzene(sim)	1.416	1.544	-9.0	

Evaluate Continuing Calibration Report

Data Path : H:\AIR2019\CHEM20\04APR\09\
 Data File : 0409_41.D
 Acq On : 10 Apr 2019 07:47 am
 Operator : CORTEX\ms
 Client ID : BFB TUNE - CCAL 1
 Lab ID : 1ppb cc - 1ppb cc
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 10 11:14:18 2019
 Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_0409.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Wed Apr 10 09:07:16 2019
 Response via : Initial Calibration

Note: Curves (l, lf, q, qf) display calculated concentration.
 Mn. RRF : 0.000 Mn. Rel. Area : 50% Max. R.T. Dev 0.20min
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev Area%
113 q	sec-Butylbenzene(sim)	1.000	1.020	-2.0
114 q	4-Isopropyltoluene(sim)	1.000	0.978	2.2
115	1,2-Dichlorobenzene(sim)	1.131	1.223	-8.1
116 q	n-Butylbenzene(sim)	1.000	0.969	3.1
117 q	1,2,4-Trichlorobenzene(sim)	1.000	0.715	28.5#
119	Hexachlorobutadiene(sim)	0.578	0.466	19.4

(#)=Out of Range l=linear, lf=liner(0,0), q=quadratic, qf=quadratic(0,0)
 Laboratory Warning Limits Out = 0

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2019\CHEM20\04APR\09\
 Data File : 0409_41.D
 Acq On : 10 Apr 2019 07:47 am
 Operator : CORTEX\ms
 Client ID : BFB TUNE - CCAL 1
 Lab ID : 1ppb cc - 1ppb cc
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 10 11:14:18 2019
 Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_0409.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Wed Apr 10 09:07:16 2019
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
Internal Standards						
1) Bromchloromethane	6.871	130	114610	10.000	ng	0.00
36) 1,4-Difluorobenzene	7.772	114	388380	10.000	ng	0.00
53) Chlorobenzene-d5	9.807	82	188017	10.000	ng	# 0.00
80) Bromchloromethane(sim)	6.874	130	157682	10.000	ng	# 0.00
94) 1,4-Difluorobenzene(sim)	7.775	114	439722	10.000	ng	0.00
104) Chlorobenzene-d5(sim)	9.810	82	186542	10.000	ng	# 0.00

System Monitoring Compounds						
62) % Bromfluorobenzene	10.596	95	250763	10.174	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	101.70%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propylene	3.573	41	13599	1.007	ppbv	98
3) Dichlorodifluoromethane	3.646	85	31504	1.072	ppbv#	95
4) Chloromethane	3.800	50	15095	1.230	ppbv	96
5) 1,2-Dichlorotetrafluor...	3.898	85	34552	1.209	ppbv	88
6) Vinyl Chloride	3.995	62	14541	1.219	ppbv	91
7) 1,3-Butadiene	4.117	54	12980	1.292	ppbv#	85
8) Bromomethane	4.352	94	11444	1.146	ppbv#	96
9) Chloroethane	4.498	64	6577	1.175	ppbv	78
11) Ethanol	4.644	45	6697	1.358	ppbv	99
12) Acetone	5.001	43	32327m	1.262	ppbv	82
13) Trichlorofluoromethane	5.098	101	45110	1.174	ppbv	98
14) Isopropylalcohol	5.195	45	35775	1.325	ppbv#	99
15) Acrylonitrile	5.325	53	11979	1.794	ppbv	96
16) 1,1-Dichloroethene	5.554	61	28666	1.240	ppbv#	71
17) Methylene Chloride	5.638	49	21864	1.273	ppbv#	53
20) Carbon Disulfide	5.846	76	30998	1.234	ppbv#	92
21) Trichlorotrifluoroethane	5.810	101	27723	1.220	ppbv	88
22) Trans-1,2-Dichloroethene	6.223	61	20627	1.052	ppbv#	78
23) 1,1-Dichloroethane	6.338	63	26397	1.087	ppbv	95
24) Methyl tert-butyl ethe...	6.385	73	30101	1.007	ppbv#	64
25) Methyl Ethyl Ketone	6.562	43	36892	1.144	ppbv#	75
26) Cis-1,2-Dichloroethene	6.778	61	19811	1.053	ppbv#	73
27) Hexane	6.879	57	20754	1.120	ppbv#	74
28) Chloroform	6.933	83	28482	1.069	ppbv	89
29) Ethyl acetate	6.887	61	3973	1.104	ppbv#	73
30) Tetrahydrofuran	7.150	42	14976	1.104	ppbv#	60
31) 1,2-Dichloroethane	7.290	62	26193	1.152	ppbv#	90
32) 1,1,1-Trichloroethane	7.414	97	30395	1.169	ppbv#	90
33) Benzene	7.628	78	27409	1.091	ppbv#	84
34) Carbon Tetrachloride	7.696	117	25598	1.181	ppbv	99
35) Cyclohexane	7.755	41	12450	1.232	ppbv#	31
37) 1,2-dichloropropane	8.009	63	12315	0.985	ppbv#	77
38) Bromdichloromethane	8.094	83	26559	1.044	ppbv	98
39) Trichloroethene	8.111	130	13836	0.949	ppbv	92
41) 1,4-Dioxane	8.111	88	6081	1.003	ppbv#	63
43) Heptane	8.221	43	20051	1.024	ppbv#	71
44) cis-1,3-Dichloropropene	8.492	75	15509	0.980	ppbv	92
45) 4-Methyl-2-pentanone(M..	8.500	43	27259	1.016	ppbv#	79
46) trans-1,3-Dichloropropene	8.723	75	14079	0.921	ppbv	95
47) 1,1,2-Trichloroethane	8.815	97	11895	0.969	ppbv	88
48) Toluene	8.948	91	29799	0.936	ppbv#	97
49) Dibromchloromethane	9.153	129	20775	1.104	ppbv	99
50) 2-Hexanone (MBK)	9.047	43	22531	0.922	ppbv#	85
51) 1,2-Dibromethane (EDB)	9.279	107	20224	0.977	ppbv	98

Data Path : H:\AIR2019\CHEM20\04APR\09\
 Data File : 0409_41.D
 Acq On : 10 Apr 2019 07:47 am
 Operator : CORTEX.ms
 Client ID : BFB TUNE - CCAL 1
 Lab ID : 1ppb cc - 1ppb cc
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 10 11:14:18 2019
 Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_0409.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Wed Apr 10 09:07:16 2019
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
52) Tetrachloroethene	9.497	166	15212	0.986	ppbv#	87
54) 1,1,1,2-Tetrachloroethane	9.822	131	13827	0.956	ppbv	97
55) Chlorobenzene	9.830	112	27265	0.948	ppbv#	81
56) Ethylbenzene	10.012	91	41751	0.937	ppbv	94
57) m p-Xylene	10.103	91	67758	1.993	ppbv	94
58) Bromoform	10.164	173	13220	1.092	ppbv	99
59) Styrene	10.293	104	21668	0.878	ppbv#	84
60) 1,1,2,2-Tetrachloroethane	10.346	83	26612	1.044	ppbv#	86
61) o-Xylene	10.346	91	35250	0.991	ppbv	94
64) Isopropylbenzene	10.656	105	43956	0.939	ppbv	95
66) 4-Ethyltoluene	11.021	105	44805	0.952	ppbv	94
67) 1,3,5-Trimethylbenzene	11.066	105	38808	0.957	ppbv#	91
68) 1,2,4-Trimethylbenzene	11.309	105	37795	0.952	ppbv#	91
70) Benzyl chloride	11.469	91	9795	0.890	ppbv#	61
71) 1,3-Dichlorobenzene	11.408	146	24395	0.923	ppbv#	92
72) 1,4-Dichlorobenzene	11.453	146	23594	0.910	ppbv	95
73) sec-Butylbenzene	11.469	105	53406	0.965	ppbv	96
74) 4-Isopropyltoluene	11.560	119	43609	0.904	ppbv#	92
75) 1,2-Dichlorobenzene	11.666	146	22807	0.908	ppbv	94
76) n-Butylbenzene	11.826	91	36184	0.832	ppbv#	95
77) 1,2,4-Trichlorobenzene	12.783	180	5288	0.535	ppbv#	93
79) Hexachlorobutadiene	13.094	225	8684	0.825	ppbv	95
81) 1,2-Dichlorotetrafluor...	3.898	85	34552	1.077	ppbv	88
82) Vinyl Chloride(sim)	3.998	62	16389	1.078	ppbv	95
83) Bromomethane(sim)	4.352	94	11444	0.904	ppbv#	96
84) Trichlorofluoromethane...	5.093	101	55917	1.063	ppbv	99
85) 1,2-Dichloroethane(sim)	7.290	62	26193	1.028	ppbv#	90
86) 1,1,1-Trichloroethane(...)	7.417	97	36940	1.104	ppbv#	90
87) Carbon Tetrachloride(sim)	7.696	117	25598	1.246	ppbv	99
88) 1,1-Dichloroethene(sim)	5.557	61	32985	1.106	ppbv#	68
89) Trichlorotrifluoroetha...	5.810	101	27723	1.050	ppbv	98
90) Trans-1,2-Dichloroethe...	6.221	61	23903	0.946	ppbv#	78
91) 1,1-Dichloroethane(sim)	6.338	63	26397	0.954	ppbv#	95
92) Cis-1,2-Dichloroethene...	6.781	61	23438	0.984	ppbv#	73
93) Chloroform(sim)	6.933	83	28482	0.953	ppbv#	89
95) 1,2-dichloropropane(sim)	8.009	63	12315	0.943	ppbv#	77
96) Bromdichloromethane(sim)	8.088	85	20268	1.110	ppbv	96
97) Trichloroethene(sim)	8.111	130	13836	0.873	ppbv	93
98) 1,4-Dioxane(sim)	8.114	88	6349	0.900	ppbv#	63
99) cis-1,3-Dichloropropen...	8.492	75	15509	1.123	ppbv	92
100) 1,1,2-Trichloroethane(...)	8.811	97	14668	0.985	ppbv	94
101) Dibromochloromethane(sim)	9.153	129	20775	1.191	ppbv	99
102) 1,2-Dibromomethane(EDB)...	9.275	107	24442	1.058	ppbv	98
103) Tetrachloroethene(sim)	9.497	166	15212	0.881	ppbv#	87
105) Bromoform(sim)	10.164	173	13329	1.198	ppbv	99
106) m p-Xylene(sim)	10.098	91	72152	2.014	ppbv#	92
107) 1,1,2,2-Tetrachloroeth...	10.346	83	26612	1.076	ppbv	94
110) Benzyl chloride(sim)	11.396	91	14780	1.063	ppbv	92
111) 1,3-Dichlorobenzene(sim)	11.408	146	24395	1.058	ppbv#	92
112) 1,4-Dichlorobenzene(sim)	11.449	146	28798	1.090	ppbv	95
113) sec-Butylbenzene(sim)	11.469	105	53397	1.020	ppbv	96
114) 4-Isopropyltoluene(sim)	11.563	119	43325	0.978	ppbv#	89
115) 1,2-Dichlorobenzene(sim)	11.666	146	22807	1.081	ppbv	94
116) n-Butylbenzene(sim)	11.821	91	37845	0.969	ppbv	93
117) 1,2,4-Trichlorobenzene...	12.783	180	5288	0.715	ppbv	93
119) Hexachlorobutadiene(sim)	13.094	225	8684	0.805	ppbv	95

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2019\CHEM20\04APR\09\
Data File : 0409_41.D
Acq On : 10 Apr 2019 07:47 am
Operator : CORTEX\ms
Client ID : BFB TUNE - CCAL 1
Lab ID : 1ppb cc - 1ppb cc
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 10 11:14:18 2019
Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_0409.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Wed Apr 10 09:07:16 2019
Response via : Initial Calibration

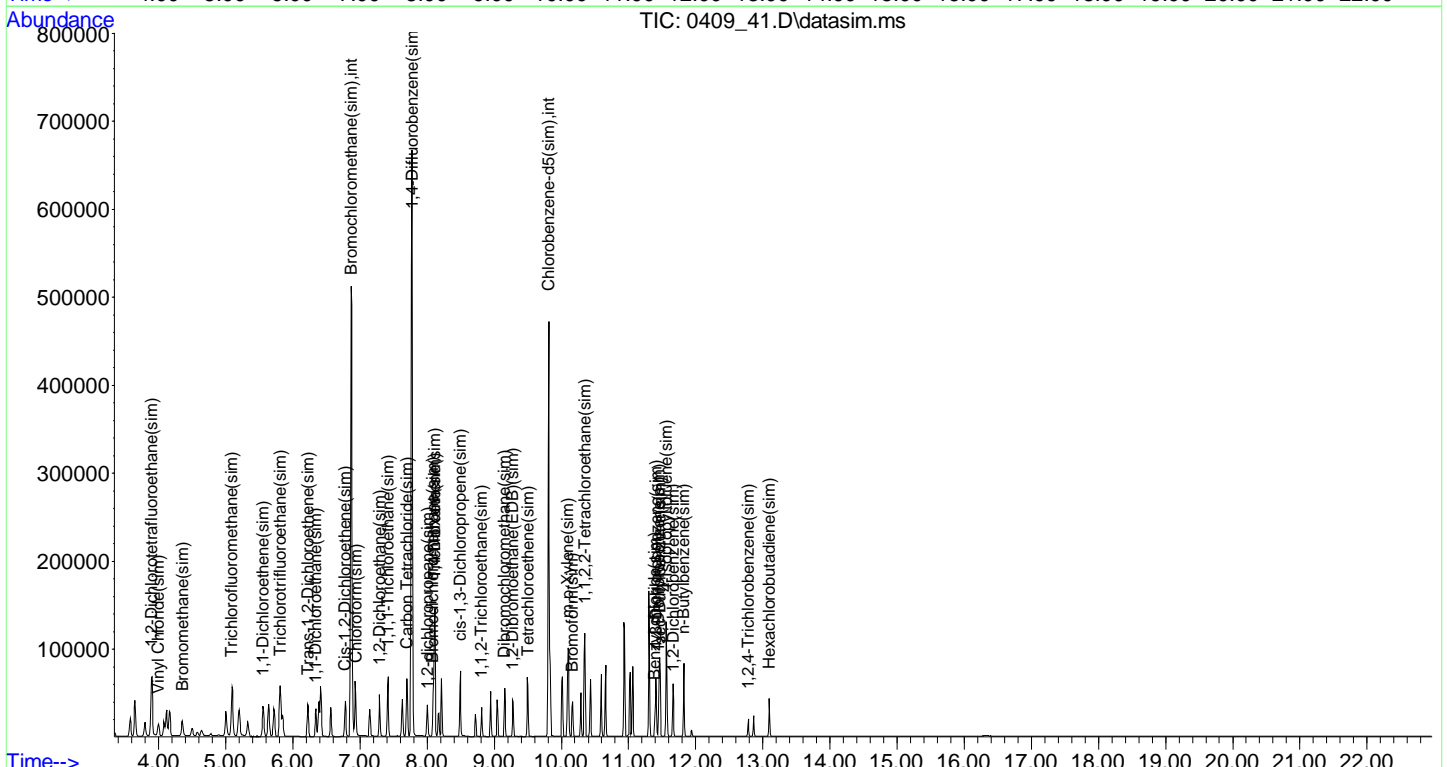
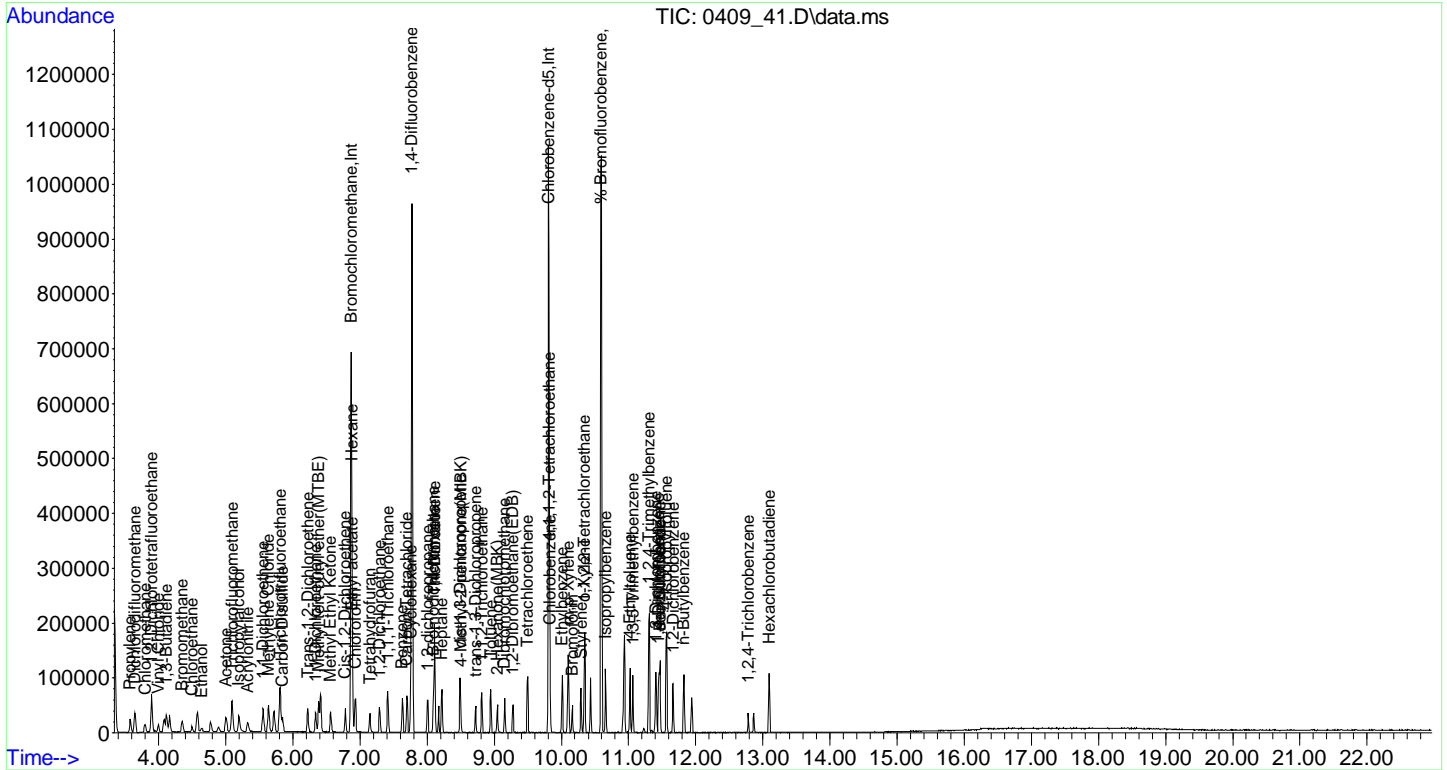
Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
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(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2019\CHEM20\04APR\09\
 Data File : 0409_41.D
 Acq On : 10 Apr 2019 07:47 am
 Operator : CORTEX.ms
 Client ID : BFB TUNE - CCAL 1
 Lab ID : 1ppb cc - 1ppb cc
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 10 11:14:18 2019
 Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_0409.M
 Quant Title : VOA Standards for 5 point calibration
 Last Update : Wed Apr 10 09:07:16 2019
 Response via : Initial Calibration



1
AIR ANALYSIS DATA SHEET

CLIENT ID

CC90508 LCS

Client:	<u>WALDENE</u>	Lab:	<u>Phoenix Env. Labs</u>
SDG No.:	<u>GCC90508</u>	Lab Sample ID:	<u>CC90508 LCS</u>
Canister:	<u>LCS</u>	Lab File ID:	<u>0409_17.D</u>
Instrument:	<u>CHEM20</u>	Column:	<u>RTX-1 60M</u>
		Date Received:	<u>04/08/19</u>
Purge Volume	<u>200</u> (cc)	Date Analyzed:	<u>04/09/19</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	11.3		0.581	0.581	r
75-71-8	Dichlorodifluoromethane	11.4		0.202	0.202	r
74-87-3	Chloromethane	11.2		0.485	0.485	r
76-14-2	1,2-Dichlorotetrafluoroethane	11.2		0.143	0.143	r
75-01-4	Vinyl Chloride	11.1		0.078	0.078	r
106-99-0	1,3-Butadiene	11.2		0.452	0.452	r
74-83-9	Bromomethane	10.9		0.258	0.258	r
75-00-3	Chloroethane	11.0		0.379	0.379	r
64-17-5	Ethanol	11.6		0.531	0.531	r
67-64-1	Acetone	10.8		0.421	0.421	r
75-69-4	Trichlorofluoromethane	11.1		0.178	0.178	r
67-63-0	Isopropylalcohol	10.7		0.407	0.407	r
107-13-1	Acrylonitrile	10.8		0.461	0.461	r
75-35-4	1,1-Dichloroethene	11.0		0.051	0.051	r
75-09-2	Methylene Chloride	10.8		0.864	0.864	r
75-15-0	Carbon Disulfide	10.8		0.321	0.321	r
76-13-1	Trichlorotrifluoroethane	11.1		0.131	0.131	r
75-34-3	1,1-Dichloroethane	11.1		0.247	0.247	r
1634-04-4	Methyl tert-butyl ether(MTBE)	11.5		0.278	0.278	r
78-93-3	Methyl Ethyl Ketone	11.3		0.339	0.339	r
156-59-2	Cis-1,2-Dichloroethene	11.4		0.051	0.051	r
110-54-3	Hexane	11.4		0.284	0.284	r
67-66-3	Chloroform	11.1		0.205	0.205	r
141-78-6	Ethyl acetate	11.9		0.278	0.278	r
109-99-9	Tetrahydrofuran	12.0		0.339	0.339	r
107-06-2	1,2-Dichloroethane	11.2		0.247	0.247	r
71-55-6	1,1,1-Trichloroethane	11.7		0.183	0.183	r
71-43-2	Benzene	11.5		0.313	0.313	r
56-23-5	Carbon Tetrachloride	12.9		0.032	0.032	r
110-82-7	Cyclohexane	11.5		0.291	0.291	r
78-87-5	1,2-dichloropropane	10.7		0.217	0.217	r
75-27-4	Bromodichloromethane	11.4		0.149	0.149	r
79-01-6	Trichloroethene	10.4		0.037	0.037	r
123-91-1	1,4-Dioxane	11.0		0.278	0.278	r
142-82-5	Heptane	10.9		0.244	0.244	r
10061-01-5	cis-1,3-Dichloropropene	11.5		0.220	0.220	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

CC90508 LCS

Client:	WALDENE	Lab:	Phoenix Env. Labs
SDG No.:	GCC90508	Lab Sample ID:	CC90508 LCS
Canister:	LCS	Lab File ID:	0409_17.D
Instrument:	CHEM20	Column:	RTX-1 60M
Date Received:	04/08/19		
Purge Volume	200	(cc)	04/09/19
Date Analyzed:	04/09/19		
Matrix:	AIR	Dilution Factor:	1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
108-10-1	4-Methyl-2-pentanone(MIBK)	12.1		0.244	0.244	r
10061-02-6	trans-1,3-Dichloropropene	11.8		0.220	0.220	r
79-00-5	1,1,2-Trichloroethane	10.5		0.183	0.183	r
108-88-3	Toluene	10.9		0.266	0.266	r
124-48-1	Dibromochloromethane	13.9		0.117	0.117	r
591-78-6	2-Hexanone(MBK)	11.5		0.244	0.244	r
106-93-4	1,2-Dibromoethane(EDB)	11.1		0.130	0.130	r
127-18-4	Tetrachloroethene	10.7		0.037	0.037	r
630-20-6	1,1,1,2-Tetrachloroethane	11.6		0.146	0.146	r
108-90-7	Chlorobenzene	10.2		0.217	0.217	r
100-41-4	Ethylbenzene	10.7		0.230	0.230	r
179601-23-1	m,p-Xylene	22.1		0.230	0.230	r
75-25-2	Bromoform	15.8		0.097	0.097	r
100-42-5	Styrene	11.2		0.235	0.235	r
79-34-5	1,1,2,2-Tetrachloroethane	10.9		0.146	0.146	r
95-47-6	o-Xylene	10.7		0.230	0.230	r
98-82-8	Isopropylbenzene	10.4		0.204	0.204	r
622-96-8	4-Ethyltoluene	11.1		0.204	0.204	r
108-67-8	1,3,5-Trimethylbenzene	11.0		0.204	0.204	r
95-63-6	1,2,4-Trimethylbenzene	11.3		0.204	0.204	r
100-44-7	Benzyl chloride	11.3		0.193	0.193	r
541-73-1	1,3-Dichlorobenzene	11.1		0.166	0.166	r
106-46-7	1,4-Dichlorobenzene	11.0		0.166	0.166	r
135-98-8	sec-Butylbenzene	10.7		0.182	0.182	r
99-87-6	4-Isopropyltoluene	11.2		0.182	0.182	r
95-50-1	1,2-Dichlorobenzene	11.2		0.166	0.166	r
104-51-8	n-Butylbenzene	11.4		0.182	0.182	r
120-82-1	1,2,4-Trichlorobenzene	15.4		0.135	0.135	r
87-68-3	Hexachlorobutadiene	13.3		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:\AIR2019\CHEM20\04APR\09\
 Data File : 0409_17.D
 Acq On : 09 Apr 2019 04:04 pm
 Operator : CORTEX\ms
 Client ID : CC90508 LCS
 Lab ID : CC90508 LCS
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 10 09:27:38 2019
 Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_0409.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Wed Apr 10 09:07:16 2019
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
Internal Standards						
1) Bromchloromethane	6.879	130	134010	10.000	ng	0.00
36) 1,4-Difluorobenzene	7.781	114	417487	10.000	ng	0.00
53) Chlorobenzene-d5	9.815	82	207223	10.000	ng	# 0.00
80) Bromchloromethane(sim)	6.882	130	175430	10.000	ng	# 0.00
94) 1,4-Difluorobenzene(sim)	7.783	114	484012	10.000	ng	0.00
104) Chlorobenzene-d5(sim)	9.810	82	216049	10.000	ng	# 0.00

System Monitoring Compounds						
62) % Bromfluorobenzene	10.596	95	275058	10.125	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	101.20%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propylene	3.606	41	178251	11.290	ppbv	95
3) Dichlorodifluoromethane	3.679	85	391509	11.392	ppbv#	96
4) Chloromethane	3.825	50	160044	11.149	ppbv	97
5) 1,2-Dichlorotetrafluor...	3.930	85	373544	11.175	ppbv	93
6) Vinyl Chloride	4.027	62	154486	11.079	ppbv	96
7) 1,3-Butadiene	4.149	54	131913	11.229	ppbv#	82
8) Bromomethane	4.384	94	126672	10.853	ppbv#	97
9) Chloroethane	4.530	64	71984	11.000	ppbv	85
11) Ethanol	4.644	45	67091	11.635	ppbv	96
12) Acetone	5.009	43	323180	10.786	ppbv#	87
13) Trichlorofluoromethane	5.122	101	498302	11.088	ppbv	99
14) Isopropylalcohol	5.195	45	336844	10.670	ppbv#	97
15) Acrylonitrile	5.341	53	84206	10.783	ppbv	98
16) 1,1-Dichloroethene	5.578	61	296729	10.982	ppbv#	75
17) Methylene Chloride	5.661	49	217075	10.809	ppbv#	56
20) Carbon Disulfide	5.870	76	318498	10.839	ppbv	100
21) Trichlorotrifluoroethane	5.828	101	294435	11.077	ppbv	89
22) Trans-1,2-Dichloroethene	6.239	61	260623	11.372	ppbv#	78
23) 1,1-Dichloroethane	6.359	63	314990	11.093	ppbv	95
24) Methyl tert-butyl ethe...	6.385	73	401136	11.482	ppbv#	72
25) Methyl Ethyl Ketone	6.563	43	426123	11.302	ppbv#	78
26) Cis-1,2-Dichloroethene	6.794	61	251087	11.410	ppbv#	73
27) Hexane	6.887	57	247079	11.403	ppbv#	82
28) Chloroform	6.941	83	345766	11.098	ppbv	91
29) Ethyl acetate	6.887	61	49918	11.859	ppbv#	73
30) Tetrahydrofuran	7.143	42	189907	11.971	ppbv#	61
31) 1,2-Dichloroethane	7.305	62	298522	11.233	ppbv#	92
32) 1,1,1-Trichloroethane	7.422	97	355154	11.683	ppbv#	92
33) Benzene	7.637	78	337813	11.495	ppbv#	88
34) Carbon Tetrachloride	7.704	117	326422	12.877	ppbv	99
35) Cyclohexane	7.764	41	135422	11.464	ppbv#	44
37) 1,2-dichloropropane	8.009	63	143851	10.707	ppbv#	82
38) Bromdichloromethane	8.102	83	312720	11.438	ppbv	99
39) Trichloroethene	8.111	130	163685	10.443	ppbv	93
41) 1,4-Dioxane	8.102	88	71719	11.009	ppbv#	67
43) Heptane	8.221	43	230080	10.927	ppbv#	71
44) cis-1,3-Dichloropropene	8.492	75	195658	11.497	ppbv	96
45) 4-Methyl-2-pentanone(M..	8.492	43	347658	12.055	ppbv#	80
46) trans-1,3-Dichloropropene	8.723	75	194197	11.820	ppbv	96
47) 1,1,2-Trichloroethane	8.815	97	139154	10.542	ppbv	91
48) Toluene	8.948	91	374079	10.928	ppbv#	98
49) Dibromchloromethane	9.160	129	280744	13.876	ppbv	98
50) 2-Hexanone (MBK)	9.040	43	301527	11.478	ppbv#	89
51) 1,2-Dibromethane (EDB)	9.279	107	246943	11.093	ppbv	97

Data Path : H:\AIR2019\CHEM20\04APR\09\
 Data File : 0409_17.D
 Acq On : 09 Apr 2019 04:04 pm
 Operator : CORTEX.ms
 Client ID : CC90508 LCS
 Lab ID : CC90508 LCS
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 10 09:27:38 2019
 Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_0409.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Wed Apr 10 09:07:16 2019
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
52) Tetrachloroethene	9.497	166	177157	10.686	ppbv#	89
54) 1,1,1,2-Tetrachloroethane	9.822	131	184170	11.556	ppbv	99
55) Chlorobenzene	9.838	112	322363	10.171	ppbv	97
56) Ethylbenzene	10.012	91	526765	10.731	ppbv	97
57) m p-Xylene	10.103	91	828896	22.124	ppbv	94
58) Bromoform	10.164	173	211049m	15.823	ppbv	99
59) Styrene	10.293	104	304814	11.201	ppbv#	86
60) 1,1,2,2-Tetrachloroethane	10.346	83	306157	10.896	ppbv	90
61) o-Xylene	10.353	91	420975	10.738	ppbv	95
64) Isopropylbenzene	10.656	105	537336	10.418	ppbv	95
66) 4-Ethyltoluene	11.021	105	576708	11.112	ppbv	96
67) 1,3,5-Trimethylbenzene	11.066	105	492586	11.023	ppbv	95
68) 1,2,4-Trimethylbenzene	11.309	105	496134	11.339	ppbv	96
70) Benzyl chloride	11.400	91	348672	11.302	ppbv	94
71) 1,3-Dichlorobenzene	11.416	146	323035	11.090	ppbv	96
72) 1,4-Dichlorobenzene	11.454	146	314005	10.984	ppbv	95
73) sec-Butylbenzene	11.469	105	654518	10.730	ppbv	97
74) 4-Isopropyltoluene	11.560	119	597945	11.244	ppbv	96
75) 1,2-Dichlorobenzene	11.666	146	311229	11.242	ppbv	96
76) n-Butylbenzene	11.826	91	546110	11.388	ppbv	97
77) 1,2,4-Trichlorobenzene	12.783	180	167804	15.412	ppbv#	93
79) Hexachlorobutadiene	13.094	225	154561	13.316	ppbv	98
81) 1,2-Dichlorotetrafluor...	3.930	85	373140	10.452	ppbv	93
82) Vinyl Chloride(sim)	4.030	62	178004	10.526	ppbv	95
83) Bromomethane(sim)	4.384	94	126672	8.996	ppbv#	97
84) Trichlorofluoromethane...	5.125	101	597049	10.198	ppbv	99
85) 1,2-Dichloroethane(sim)	7.305	62	298522	10.532	ppbv#	92
86) 1,1,1-Trichloroethane(...)	7.424	97	432639	11.620	ppbv#	91
87) Carbon Tetrachloride(sim)	7.704	117	326422	14.281	ppbv	99
88) 1,1-Dichloroethene(sim)	5.581	61	344505	10.387	ppbv#	70
89) Trichlorotrifluoroetha...	5.828	101	294435	10.026	ppbv	99
90) Trans-1,2-Dichloroethe...	6.164	61	9	0.000	ppbv	94
91) 1,1-Dichloroethane(sim)	6.359	63	314990	10.228	ppbv	95
92) Cis-1,2-Dichloroethene...	6.797	61	292298	11.034	ppbv#	74
93) Chloroform(sim)	6.941	83	345766	10.403	ppbv#	91
95) 1,2-dichloropropane(sim)	8.009	63	143851	10.011	ppbv#	82
96) Bromdichloromethane(sim)	8.097	85	236926	11.787	ppbv	96
97) Trichloroethene(sim)	8.111	130	163685	9.387	ppbv	96
98) 1,4-Dioxane(sim)	8.105	88	76073	9.797	ppbv#	68
99) cis-1,3-Dichloropropen...	8.492	75	195658	12.868	ppbv	96
100) 1,1,2-Trichloroethane(...)	8.818	97	169436	10.336	ppbv	94
101) Dibromochloromethane(sim)	9.160	129	280744	14.627	ppbv	98
102) 1,2-Dibromomethane(EDB)...	9.282	107	293656	11.553	ppbv	98
103) Tetrachloroethene(sim)	9.497	166	177157	9.318	ppbv	89
105) Bromoform(sim)	10.164	173	211344	16.395	ppbv	99
106) m p-Xylene(sim)	10.106	91	876932	16.570	ppbv	94
107) 1,1,2,2-Tetrachloroeth...	10.346	83	306157	10.693	ppbv	97
110) Benzyl chloride(sim)	11.396	91	372282	8.732	ppbv	93
111) 1,3-Dichlorobenzene(sim)	11.416	146	323035	12.093	ppbv	96
112) 1,4-Dichlorobenzene(sim)	11.449	146	393494	12.864	ppbv	96
113) sec-Butylbenzene(sim)	11.469	105	654272	8.096	ppbv	97
114) 4-Isopropyltoluene(sim)	11.563	119	576273	8.200	ppbv	93
115) 1,2-Dichlorobenzene(sim)	11.666	146	311229	12.738	ppbv	96
116) n-Butylbenzene(sim)	11.821	91	578087	8.036	ppbv	95
117) 1,2,4-Trichlorobenzene...	12.783	180	167804	10.740	ppbv	93
119) Hexachlorobutadiene(sim)	13.094	225	154561	12.368	ppbv	98

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2019\CHEM20\04APR\09\
Data File : 0409_17.D
Acq On : 09 Apr 2019 04:04 pm
Operator : CORTEX\ms
Client ID : CC90508 LCS
Lab ID : CC90508 LCS
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 10 09:27:38 2019
Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_0409.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Wed Apr 10 09:07:16 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
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(#)out of range (m)manual integration reviewed by analyst (+)signals summed

1
AIR ANALYSIS DATA SHEET

CLIENT ID

CC90508 BLANK

Client: WALDENE Lab: Phoenix Env. Labs

SDG No.: GCC90508 Lab Sample ID: CC90508 BL

Canister: BL Lab File ID: 0409_19.D

Instrument: CHEM20 Column: RTX-1 60M Date Received: 04/08/19

Purge Volume 200 (cc) Date Analyzed: 04/09/19

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	0.580	U	0.580	0.580	r
75-71-8	Dichlorodifluoromethane	0.200	U	0.200	0.200	r
74-87-3	Chloromethane	0.480	U	0.480	0.480	r
106-99-0	1,3-Butadiene	0.450	U	0.450	0.450	r
75-00-3	Chloroethane	0.380	U	0.380	0.380	r
64-17-5	Ethanol	0.530	U	0.530	0.530	r
67-64-1	Acetone	0.420	U	0.420	0.420	r
67-63-0	Isopropylalcohol	0.410	U	0.410	0.410	r
107-13-1	Acrylonitrile	0.460	U	0.460	0.460	r
75-09-2	Methylene Chloride	0.860	U	0.860	0.860	r
75-15-0	Carbon Disulfide	0.320	U	0.320	0.320	r
1634-04-4	Methyl tert-butyl ether(MTBE)	0.280	U	0.280	0.280	r
78-93-3	Methyl Ethyl Ketone	0.340	U	0.340	0.340	r
110-54-3	Hexane	0.280	U	0.280	0.280	r
141-78-6	Ethyl acetate	0.280	U	0.280	0.280	r
109-99-9	Tetrahydrofuran	0.340	U	0.340	0.340	r
71-43-2	Benzene	0.310	U	0.310	0.310	r
110-82-7	Cyclohexane	0.290	U	0.290	0.290	r
142-82-5	Heptane	0.240	U	0.240	0.240	r
108-10-1	4-Methyl-2-pentanone(MIBK)	0.240	U	0.240	0.240	r
10061-02-6	trans-1,3-Dichloropropene	0.220	U	0.220	0.220	r
108-88-3	Toluene	0.270	U	0.270	0.270	r
591-78-6	2-Hexanone(MBK)	0.240	U	0.240	0.240	r
630-20-6	1,1,1,2-Tetrachloroethane	0.150	U	0.150	0.150	r
108-90-7	Chlorobenzene	0.220	U	0.220	0.220	r
100-41-4	Ethylbenzene	0.230	U	0.230	0.230	r
100-42-5	Styrene	0.230	U	0.230	0.230	r
95-47-6	o-Xylene	0.230	U	0.230	0.230	r
98-82-8	Isopropylbenzene	0.200	U	0.200	0.200	r
622-96-8	4-Ethyltoluene	0.200	U	0.200	0.200	r
108-67-8	1,3,5-Trimethylbenzene	0.200	U	0.200	0.200	r
95-63-6	1,2,4-Trimethylbenzene	0.200	U	0.200	0.200	r
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.140	U	0.140	0.140	r
75-01-4	Vinyl Chloride(sim)	0.078	U	0.078	0.078	r
74-83-9	Bromomethane(sim)	0.260	U	0.260	0.260	r
75-69-4	Trichlorofluoromethane(sim)	0.180	U	0.180	0.180	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

CC90508 BLANK

Client:	<u>WALDENE</u>	Lab:	<u>Phoenix Env. Labs</u>
SDG No.:	<u>GCC90508</u>	Lab Sample ID:	<u>CC90508 BL</u>
Canister:	<u>BL</u>	Lab File ID:	<u>0409_19.D</u>
Instrument:	<u>CHEM20</u> Column: <u>RTX-1 60M</u>	Date Received:	<u>04/08/19</u>
Purge Volume	<u>200</u> (cc)	Date Analyzed:	<u>04/09/19</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
107-06-2	1,2-Dichloroethane(sim)	0.250	U	0.250	0.250	r
71-55-6	1,1,1-Trichloroethane(sim)	0.180	U	0.180	0.180	r
56-23-5	Carbon Tetrachloride(sim)	0.032	U	0.032	0.032	r
75-35-4	1,1-Dichloroethene(sim)	0.050	U	0.050	0.050	r
76-13-1	Trichlorotrifluoroethane(sim)	0.130	U	0.130	0.130	r
156-60-5	Trans-1,2-Dichloroethene(sim)	0.250	U	0.250	0.250	r
75-34-3	1,1-Dichloroethane(sim)	0.250	U	0.250	0.250	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.256	U	0.256	0.256	r
67-66-3	Chloroform(sim)	0.200	U	0.200	0.200	r
78-87-5	1,2-dichloropropane(sim)	0.220	U	0.220	0.220	r
75-27-4	Bromodichloromethane(sim)	0.150	U	0.150	0.150	r
79-01-6	Trichloroethene(sim)	0.037	U	0.037	0.037	r
123-91-1	1,4-Dioxane(sim)	0.280	U	0.280	0.280	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)	0.180	U	0.180	0.180	r
124-48-1	Dibromochloromethane(sim)	0.120	U	0.120	0.120	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
179601-23-1	m,p-Xylene(sim)	0.230	U	0.230	0.230	r
79-34-5	1,1,1,2-Tetrachloroethane(sim)	0.150	U	0.150	0.150	r
100-44-7	Benzyl chloride(sim)	0.190	U	0.190	0.190	r
541-73-1	1,3-Dichlorobenzene(sim)	0.170	U	0.170	0.170	r
106-46-7	1,4-Dichlorobenzene(sim)	0.170	U	0.170	0.170	r
135-98-8	sec-Butylbenzene(sim)	0.180	U	0.180	0.180	r
99-87-6	4-Isopropyltoluene(sim)	0.180	U	0.180	0.180	r
95-50-1	1,2-Dichlorobenzene(sim)	0.170	U	0.170	0.170	r
104-51-8	n-Butylbenzene(sim)	0.180	U	0.180	0.180	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.130	U	0.130	0.130	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

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2019\CHEM20\04APR\09\
 Data File : 0409_19.D
 Acq On : 09 Apr 2019 05:15 pm
 Operator : CORTEX\ms
 Client ID : CC90508 BLANK
 Lab ID : CC90508 BLANK
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 10 10:23:56 2019
 Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_0409.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Wed Apr 10 09:07:16 2019
 Response via : Initial Calibration

Compound	R.T.	QI	Ion	Response	Conc	Units	Dev(Mn)
Internal Standards							
1) Bromchloromethane	6.871	130		137728	10.000	ng	0.00
36) 1,4-Difluorobenzene	7.772	114		422184	10.000	ng	0.00
53) Chlorobenzene-d5	9.807	82		195526	10.000	ng	# 0.00
80) Bromchloromethane(sim)	6.874	130		182807	10.000	ng	# 0.00
94) 1,4-Difluorobenzene(sim)	7.775	114		482208	10.000	ng	0.00
104) Chlorobenzene-d5(sim)	9.810	82		198523	10.000	ng	# 0.00
System Monitoring Compounds							
62) % Bromfluorobenzene	10.596	95		257510	10.046	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	100.50%	

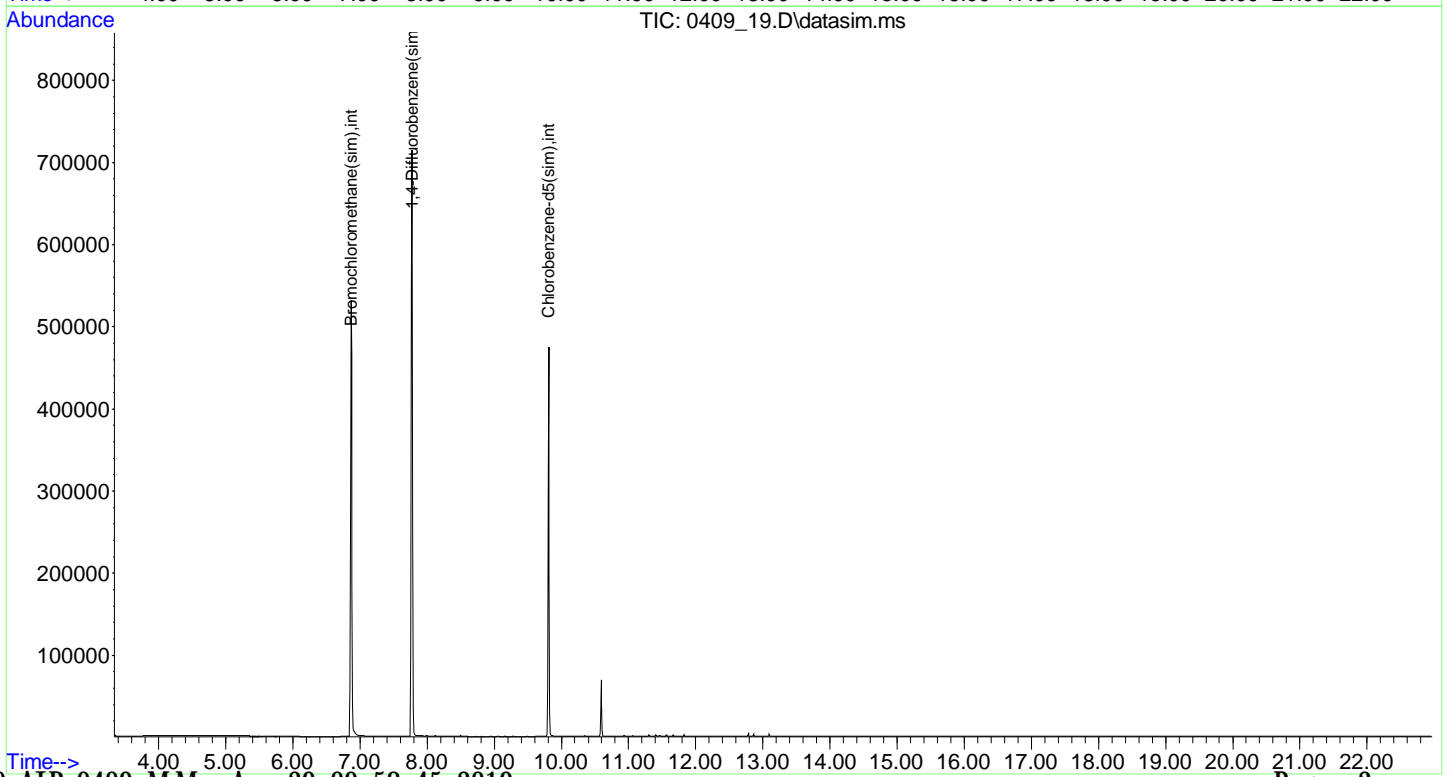
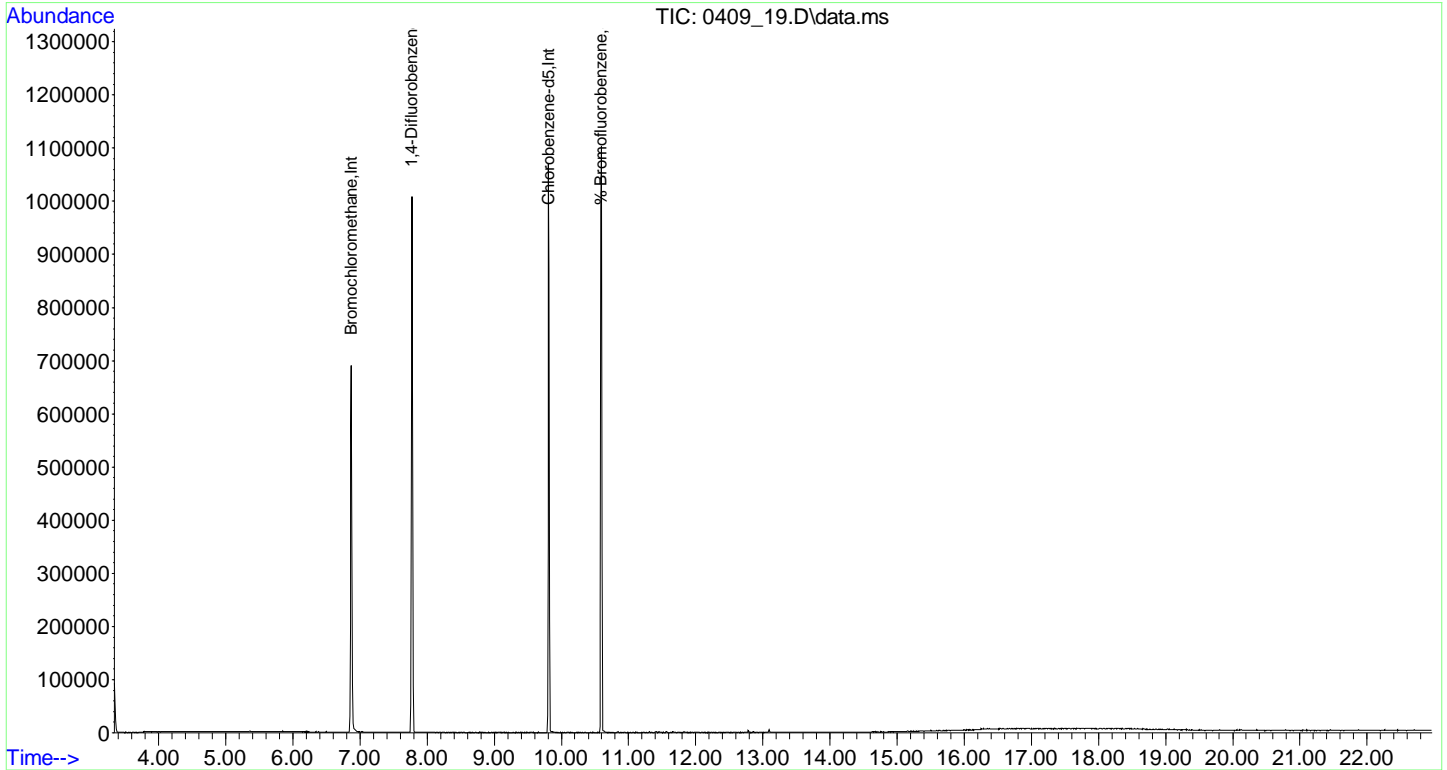
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2019\CHEM20\04APR\09\
Data File : 0409_19.D
Acq On : 09 Apr 2019 05:15 pm
Operator : CORTEX.ms
Client ID : CC90508 BLANK
Lab ID : CC90508 BLANK
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 10 10:23:56 2019
Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_0409.M
Quant Title : VOA Standards for 5 point calibration
Last Update : Wed Apr 10 09:07:16 2019
Response via : Initial Calibration



1
AIR ANALYSIS DATA SHEET

CLIENT ID

IA-4 DUP

Client: WALDENE Lab: Phoenix Env. Labs

SDG No.: GCC90508 Lab Sample ID: CC90508 DUP

Canister: 492 Lab File ID: 0409_21.D

Instrument: CHEM20 Column: RTX-1 60M Date Received: 04/08/19

Purge Volume 200 (cc) Date Analyzed: 04/09/19

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	0.468		0.202	0.202	r
74-87-3	Chloromethane	0.614		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	14.1	S	0.531	0.531	r
67-64-1	Acetone	7.35	S	0.421	0.421	r
75-69-4	Trichlorofluoromethane	0.244		0.178	0.178	r
67-63-0	Isopropylalcohol	0.713	S	0.407	0.407	r
107-13-1	Acrylonitrile	0.461	U	0.461	0.461	r
75-09-2	Methylene Chloride	0.864	U	0.864	0.864	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	0.969		0.339	0.339	r
110-54-3	Hexane	1.89	S	0.284	0.284	r
141-78-6	Ethyl acetate	0.278	U	0.278	0.278	r
109-99-9	Tetrahydrofuran	1.71		0.339	0.339	r
71-43-2	Benzene	0.492		0.313	0.313	r
110-82-7	Cyclohexane	0.658		0.291	0.291	r
142-82-5	Heptane	0.856		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	2.39		0.266	0.266	r
591-78-6	2-Hexanone(MBK)	0.244	U	0.244	0.244	r
127-18-4	Tetrachloroethene	2.45		0.037	0.037	r
630-20-6	1,1,1,2-Tetrachloroethane	0.146	U	0.146	0.146	r
108-90-7	Chlorobenzene	0.217	U	0.217	0.217	r
100-41-4	Ethylbenzene	0.515		0.230	0.230	r
179601-23-1	m,p-Xylene	2.00		0.230	0.230	r
100-42-5	Styrene	0.235	U	0.235	0.235	r
95-47-6	o-Xylene	0.873		0.230	0.230	r
98-82-8	Isopropylbenzene	0.224		0.204	0.204	r
622-96-8	4-Ethyltoluene	0.953		0.204	0.204	r
108-67-8	1,3,5-Trimethylbenzene	1.07		0.204	0.204	r
95-63-6	1,2,4-Trimethylbenzene	3.73		0.204	0.204	r
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.143	U	0.143	0.143	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

IA-4 DUP

Client: WALDENE Lab: Phoenix Env. Labs

SDG No.: GCC90508 Lab Sample ID: CC90508 DUP

Canister: 492 Lab File ID: 0409_21.D

Instrument: CHEM20 Column: RTX-1 60M Date Received: 04/08/19

Purge Volume 200 (cc) Date Analyzed: 04/09/19

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
75-01-4	Vinyl Chloride(sim)	0.078	U	0.078	0.078	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		0.032	0.032	r
75-35-4	1,1-Dichloroethene(sim)	0.051	U	0.051	0.051	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)	0.053		0.051	0.051	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		0.037	0.037	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
79-34-5	1,1,1,2-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

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2019\CHEM20\04APR\09\
 Data File : 0409_21.D
 Acq On : 09 Apr 2019 06:37 pm
 Operator : CORTEX\ms
 Client ID : IA-4 DUP
 Lab ID : CC90508 DUP
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 10 10:24:41 2019
 Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_0409.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Wed Apr 10 09:07:16 2019
 Response via : Initial Calibration

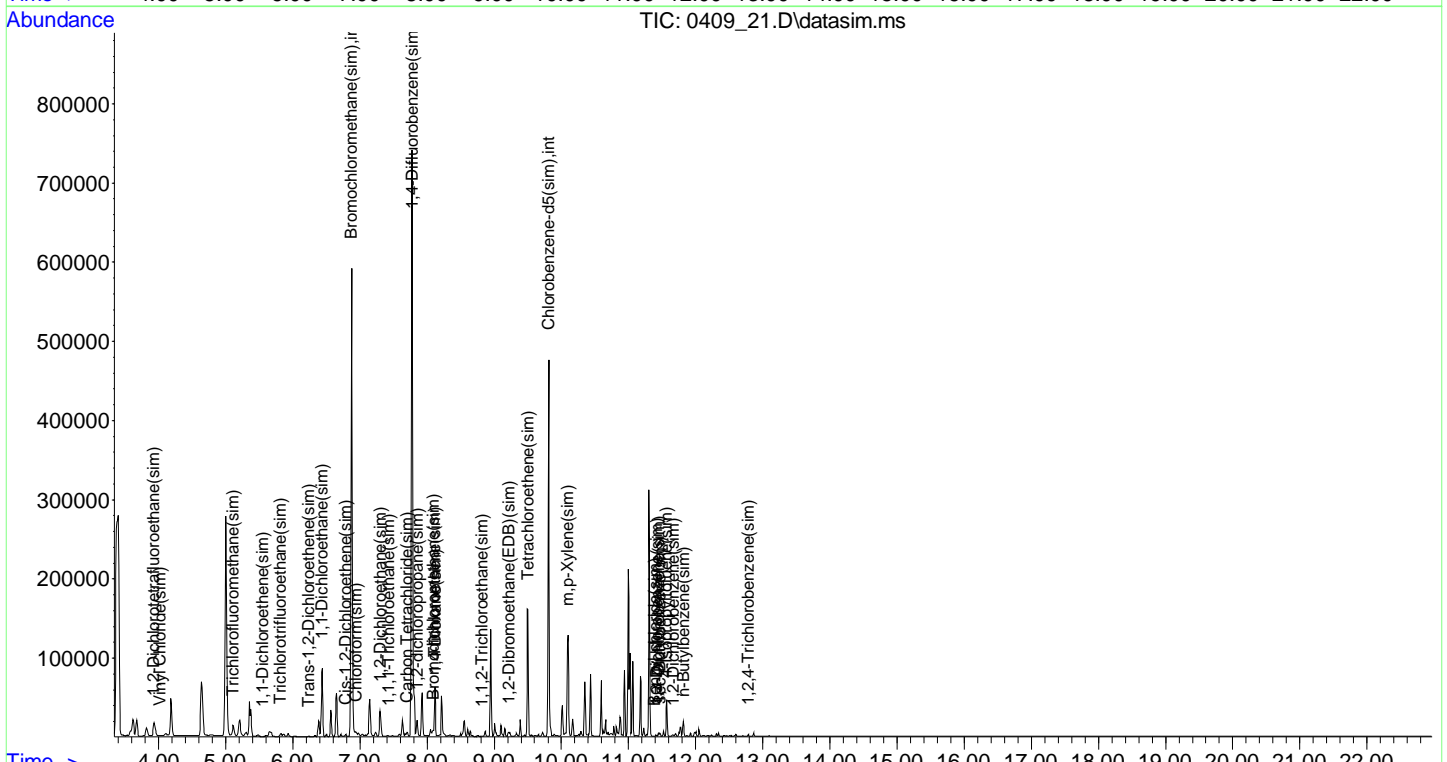
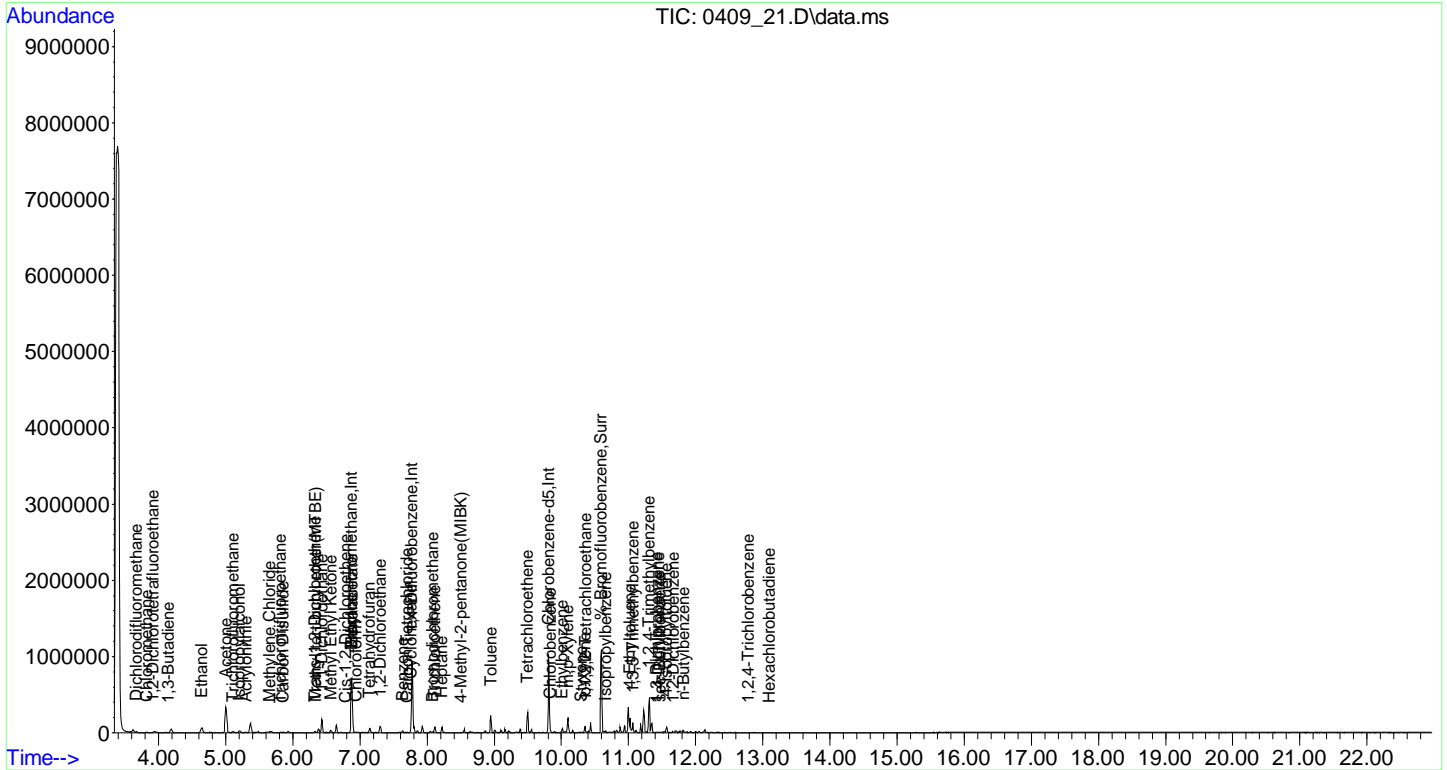
Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
Internal Standards						
1) Bromchloromethane	6.871	130	127622	10.000	ng	0.00
36) 1,4-Difluorobenzene	7.772	114	404760	10.000	ng	0.00
53) Chlorobenzene-d5	9.807	82	197692	10.000	ng	# 0.00
80) Bromchloromethane(sim)	6.874	130	172030	10.000	ng	# 0.00
94) 1,4-Difluorobenzene(sim)	7.775	114	459992	10.000	ng	0.00
104) Chlorobenzene-d5(sim)	9.810	82	195993	10.000	ng	# 0.00
System Monitoring Compounds						
62) % Bromfluorobenzene	10.596	95	254123	9.805	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	98.10%
Target Compounds						
						Qvalue
3) Dichlorodifluoromethane	3.671	85	15299	0.467	ppbv#	94
4) Chloromethane	3.825	50	8393	0.614	ppbv	95
11) Ethanol	4.644	45	77624	14.135	ppbv	94
12) Acetone	5.001	43	209756	7.351	ppbv#	72
13) Trichlorofluoromethane	5.114	101	10433	0.244	ppbv	98
14) Isopropylalcohol	5.204	45	21423	0.713	ppbv#	91
25) Methyl Ethyl Ketone	6.568	43	34785	0.969	ppbv#	77
27) Hexane	6.879	57	39065	1.893	ppbv#	76
30) Tetrahydrofuran	7.143	42	25783	1.707	ppbv#	59
33) Benzene	7.637	78	13756	0.492	ppbv#	85
34) Carbon Tetrachloride	7.704	117	1944	0.081	ppbv	88
35) Cyclohexane	7.764	41	7402	0.658	ppbv#	1
39) Trichloroethene	8.111	130	826	0.054	ppbv	92
43) Heptane	8.221	43	17467	0.856	ppbv#	66
48) Toluene	8.949	91	79224	2.387	ppbv#	96
52) Tetrachloroethene	9.498	166	39418	2.452	ppbv#	90
56) Ethylbenzene	10.012	91	24126	0.515	ppbv	95
57) m p-Xylene	10.095	91	71409	1.998	ppbv	94
61) o-Xylene	10.353	91	32638	0.873	ppbv	94
64) Isopropylbenzene	10.657	105	10996	0.223	ppbv	95
66) 4-Ethyltoluene	11.021	105	47187m	0.953	ppbv	95
67) 1,3,5-Trimethylbenzene	11.066	105	45645	1.071	ppbv#	93
68) 1,2,4-Trimethylbenzene	11.309	105	155724	3.731	ppbv#	83
84) Trichlorofluoromethane...	5.109	101	12713	0.221	ppbv	99
87) Carbon Tetrachloride(sim)	7.704	117	1944	0.087	ppbv	88
97) Trichloroethene(sim)	8.111	130	826	0.050	ppbv#	82
103) Tetrachloroethene(sim)	9.498	166	39418	2.182	ppbv	90
106) m p-Xylene(sim)	10.098	91	77048	2.046	ppbv#	92

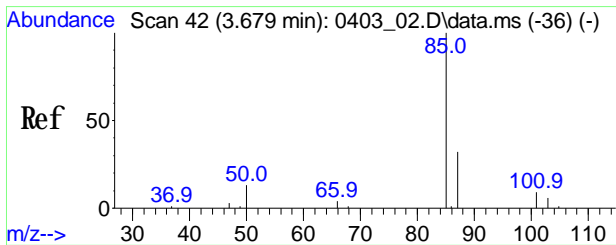
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2019\CHEM20\04APR\09\
 Data File : 0409_21.D
 Acq On : 09 Apr 2019 06:37 pm
 Operator : CORTEX.ms
 Client ID : IA-4 DUP
 Lab ID : CC90508 DUP
 ALS Vial : 1 Sample Multiplier: 1

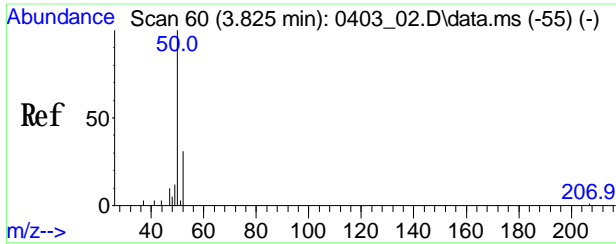
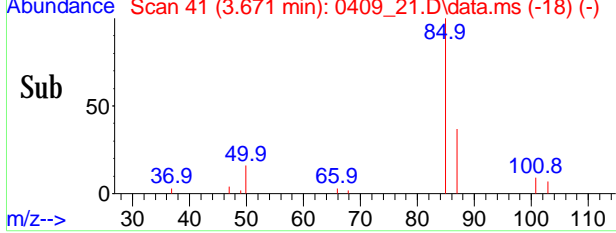
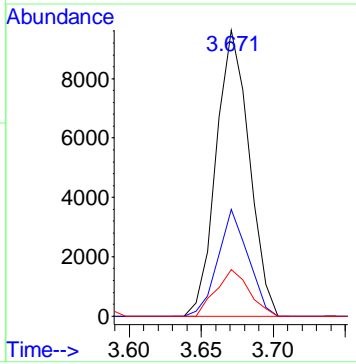
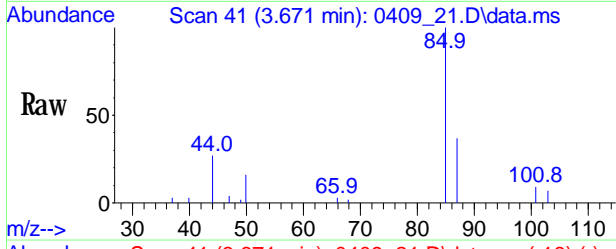
Quant Time: Apr 10 10:24:41 2019
 Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_0409.M
 Quant Title : VOA Standards for 5 point calibration
 Last Update : Wed Apr 10 09:07:16 2019
 Response via : Initial Calibration





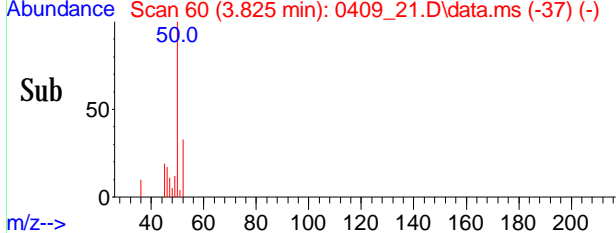
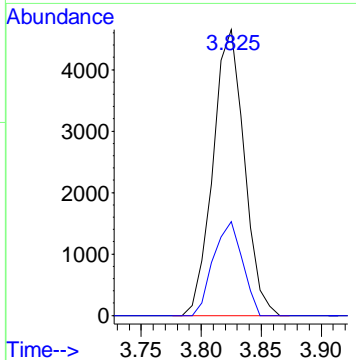
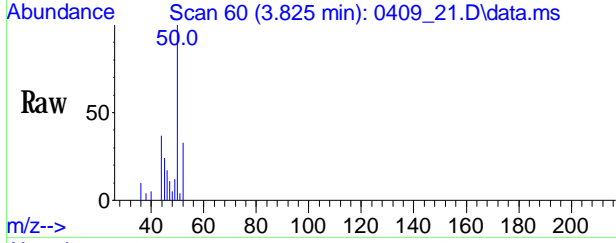
#3
Dichlorodifluoromethane
 Conc: 8S 0.467 ppby
 RT: 3.671 min Scan# 41
 Delta R.T. -0.016 min
 Lab File: 0409_21.D
 Acq: 09 Apr 2019 06:37 pm

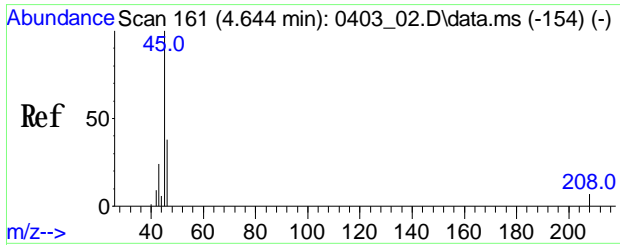
Tgt Ion	Ratio	Resp	Lower	Upper
85	100	15299		
87	34.2	25.6	38.4	
50	16.5	9.4	14.2#	



#4
Chloromethane
 Conc: 8S 0.614 ppby
 RT: 3.825 min Scan# 60
 Delta R.T. -0.016 min
 Lab File: 0409_21.D
 Acq: 09 Apr 2019 06:37 pm

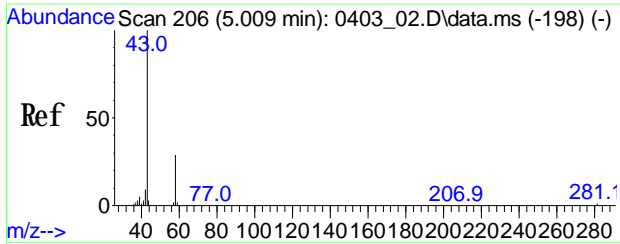
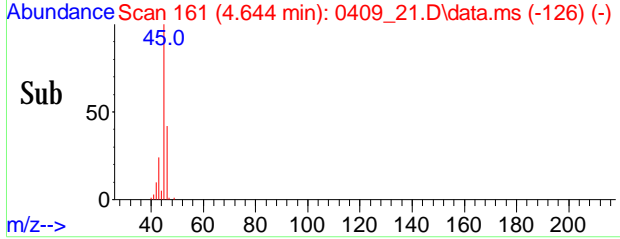
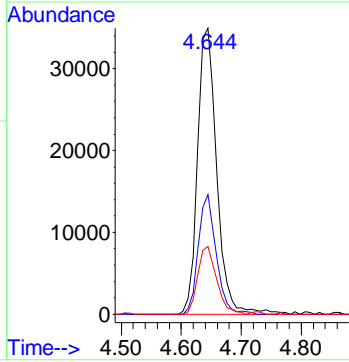
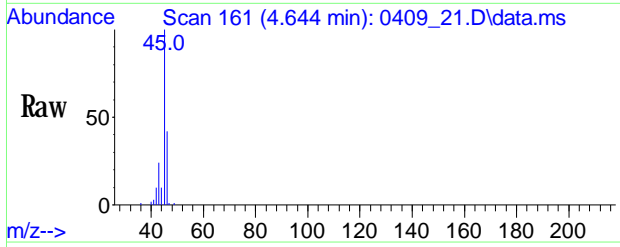
Tgt Ion	Ratio	Resp	Lower	Upper
50	100	8393		
52	30.5	13.6	53.6	





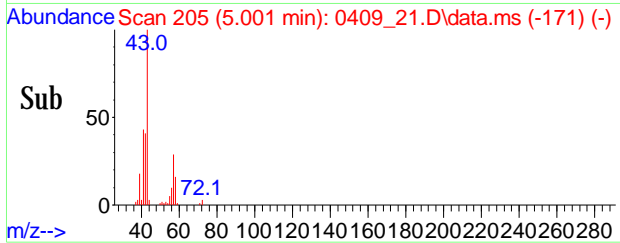
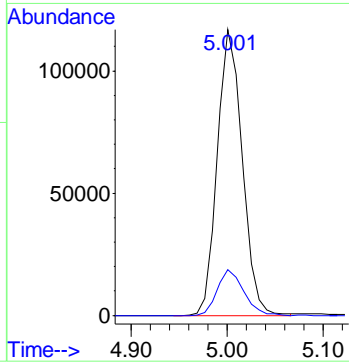
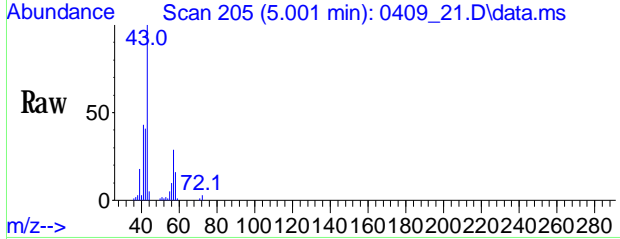
#11
 Ethanol
 Conc: 8S 14.135 ppbv
 RT: 4.644 min Scan# 161
 Delta R.T. -0.016 min
 Lab File: 0409_21.D
 Acq: 09 Apr 2019 06:37 pm

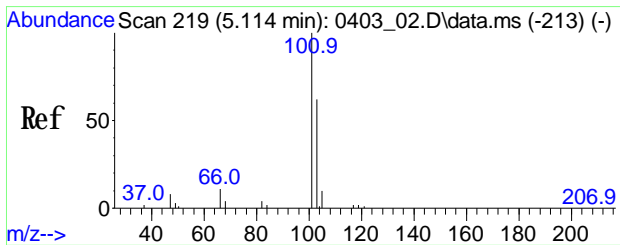
Tgt Ion	Ratio	Resp	Lower	Upper
45	100			
46	38.7	29.9		44.9
43	23.2	22.7		34.1



#12
 Acetone
 Conc: 8S 7.351 ppbv
 RT: 5.001 min Scan# 205
 Delta R.T. -0.024 min
 Lab File: 0409_21.D
 Acq: 09 Apr 2019 06:37 pm

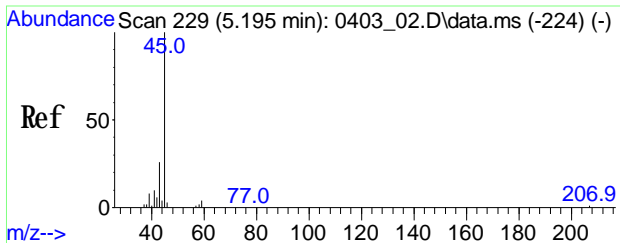
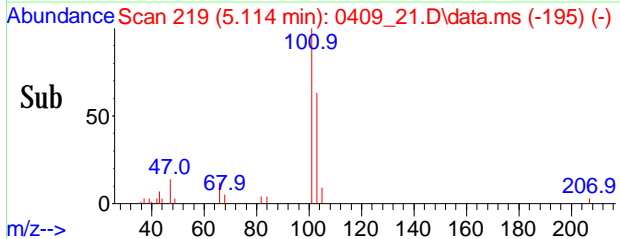
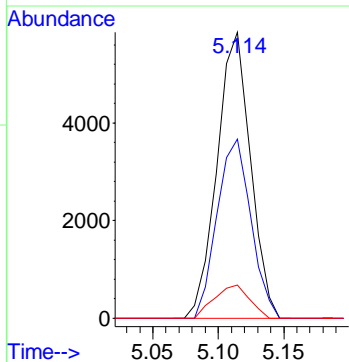
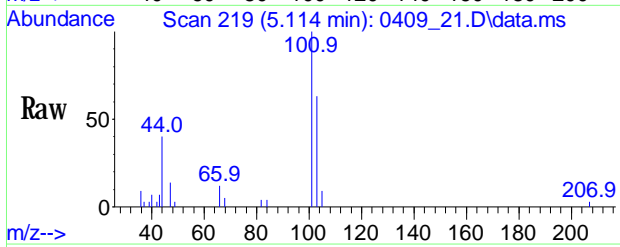
Tgt Ion	Ratio	Resp	Lower	Upper
43	100			
58	17.0	25.9		38.9#





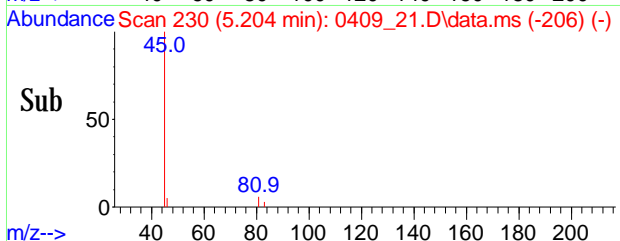
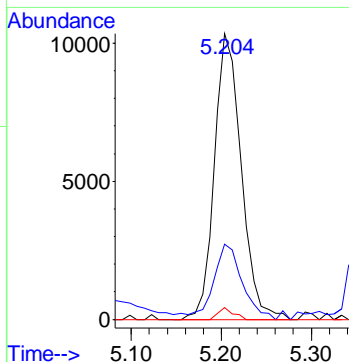
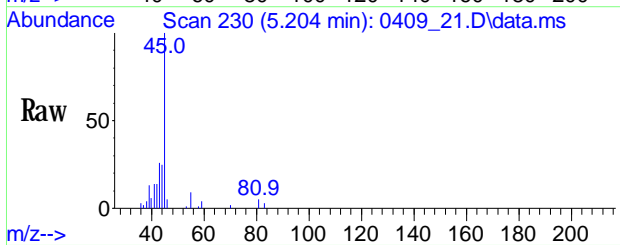
#13
 Trichlorofluoromethane
 Conc: 8S 0.244 ppbv
 RT: 5.114 min Scan# 219
 Delta R.T. -0.008 min
 Lab File: 0409_21.D
 Acq: 09 Apr 2019 06:37 pm

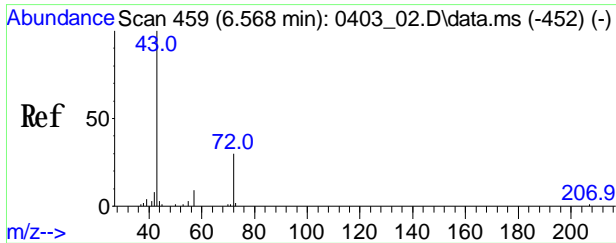
Tgt Ion	Ratio	Resp	Lower	Upper
101	100	10433		
103	63.1	51.6	77.4	
66	12.1	9.4	14.0	



#14
 Isopropylalcohol
 Conc: 8S 0.713 ppbv
 RT: 5.204 min Scan# 230
 Delta R.T. -0.008 min
 Lab File: 0409_21.D
 Acq: 09 Apr 2019 06:37 pm

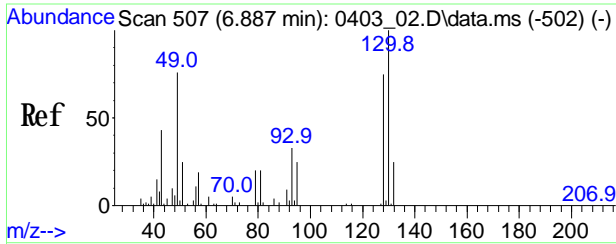
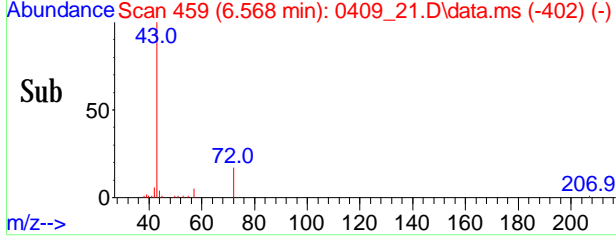
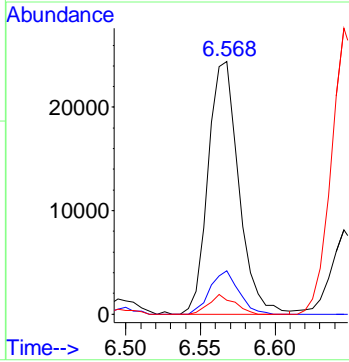
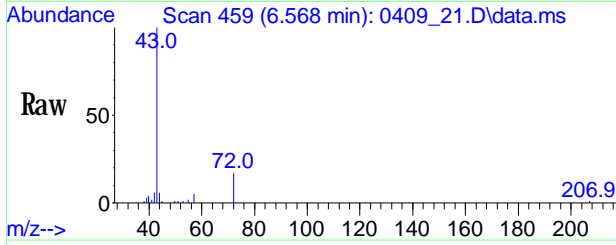
Tgt Ion	Ratio	Resp	Lower	Upper
45	100	21423		
43	27.9	18.6	27.8#	
59	2.3	3.7	5.5#	





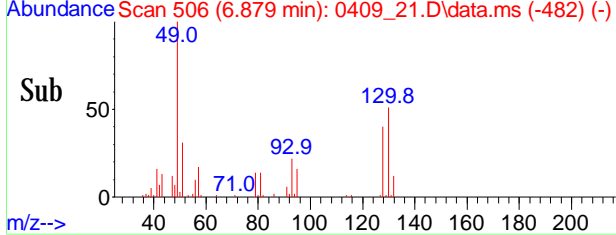
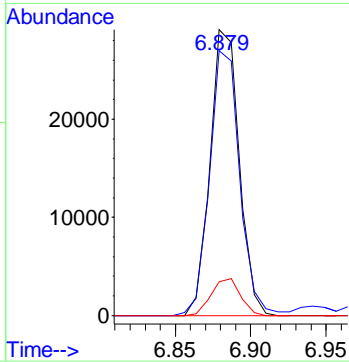
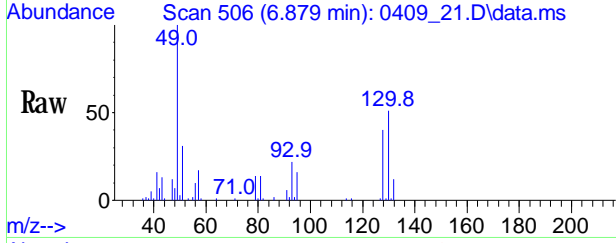
#25
Methyl Ethyl Ketone
 Conc: 8S 0.969 ppbv
 RT: 6.568 min Scan# 459
 Delta R.T. -0.005 min
 Lab File: 0409_21.D
 Acq: 09 Apr 2019 06:37 pm

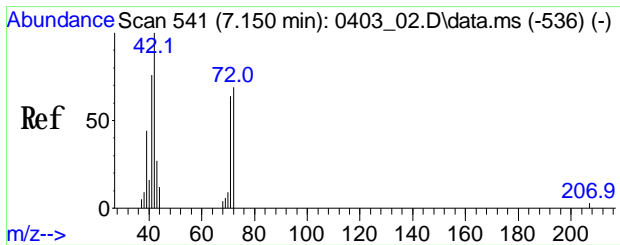
Tgt Ion	Ratio	Resp	Lower	Upper
43	100	34785		
72	16.0	24.6		37.0#
57	6.4	7.4		11.2#



#27
Hexane
 Conc: 8S 1.893 ppbv
 RT: 6.879 min Scan# 506
 Delta R.T. -0.008 min
 Lab File: 0409_21.D
 Acq: 09 Apr 2019 06:37 pm

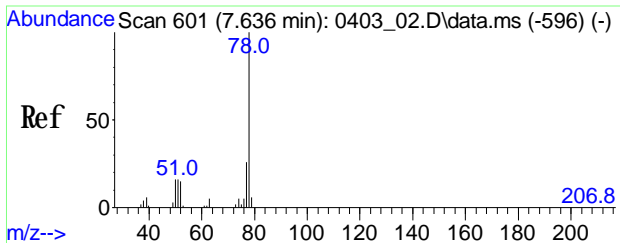
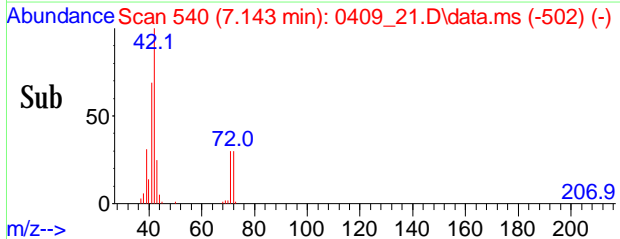
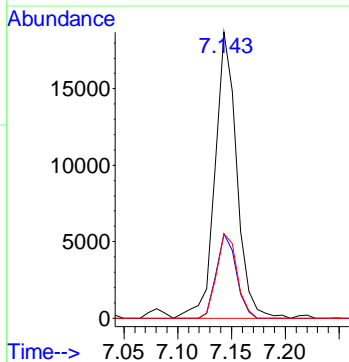
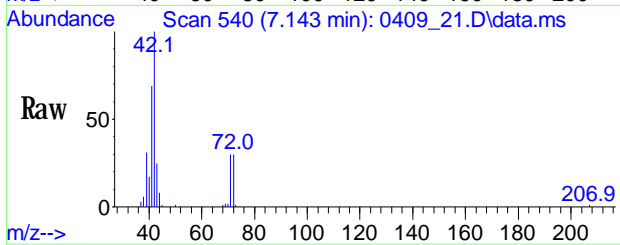
Tgt Ion	Ratio	Resp	Lower	Upper
57	100	39065		
41	95.8	58.9		88.3#
86	12.8	16.4		24.6#





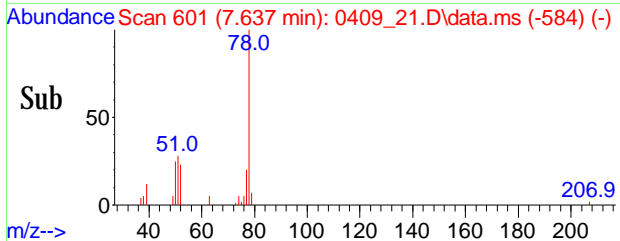
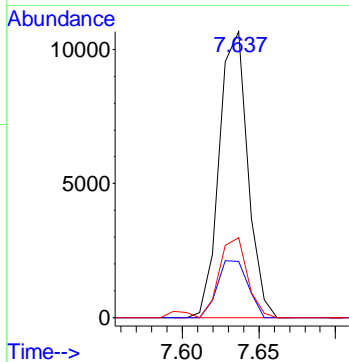
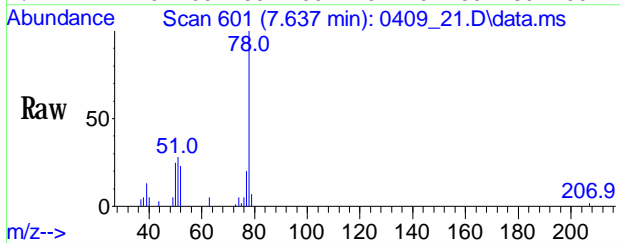
#30
 Tetrahydrofuran
 Conc: 8S 1.707 ppby
 RT: 7.143 min Scan# 540
 Delta R.T. -0.007 min
 Lab File: 0409_21.D
 Acq: 09 Apr 2019 06:37 pm

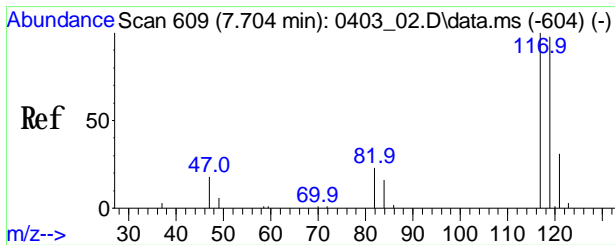
Tgt Ion	Ratio	Resp	Lower	Upper
42	100	25783		
71	26.9	45.8	68.6#	
72	27.7	46.5	69.7#	



#33
 Benzene
 Conc: 8S 0.492 ppby
 RT: 7.637 min Scan# 601
 Delta R.T. 0.001 min
 Lab File: 0409_21.D
 Acq: 09 Apr 2019 06:37 pm

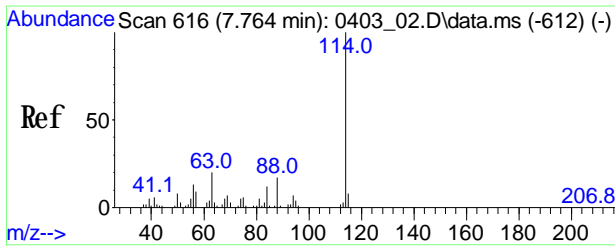
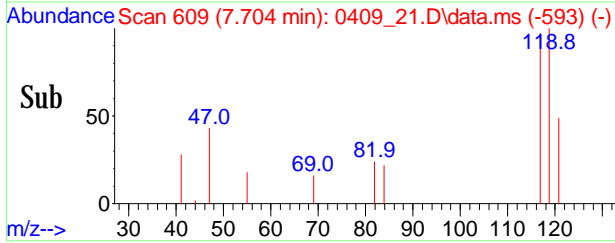
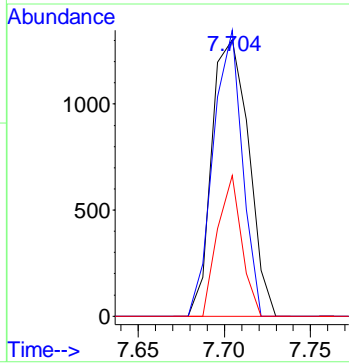
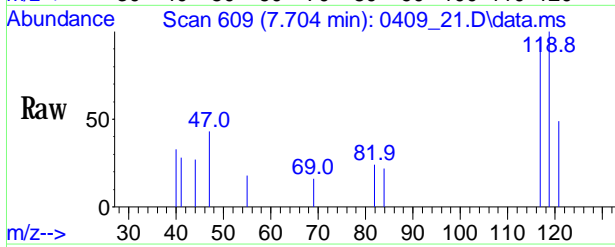
Tgt Ion	Ratio	Resp	Lower	Upper
78	100	13756		
77	21.2	18.6	27.8	
51	28.8	12.9	19.3#	





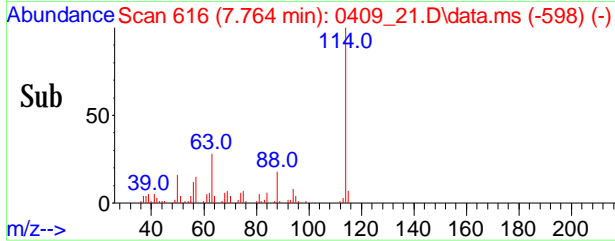
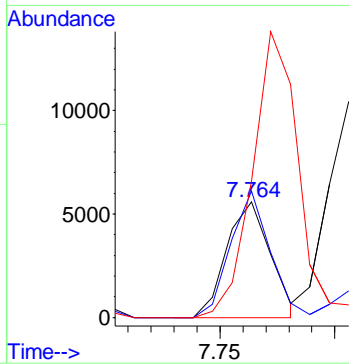
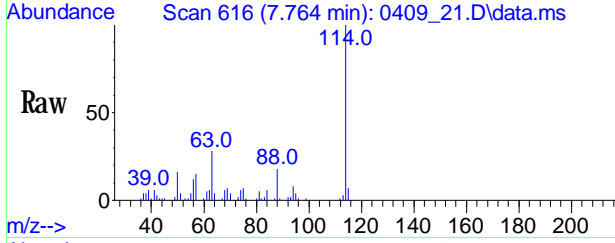
#34
 Carbon Tetrachloride
 Conc: 8S Below Cal
 RT: 7.704 min Scan# 609
 Delta R.T. 0.000 min
 Lab File: 0409_21.D
 Acq: 09 Apr 2019 06:37 pm

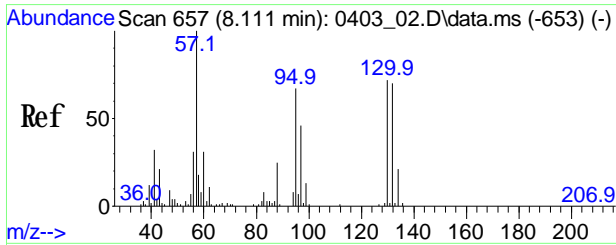
Tgt Ion	Ratio	Resp	Lower	Upper
117	100	1944		
119	81.8	75.8		115.8
121	33.4	10.7		50.7



#35
 Cyclohexane
 Conc: 8S 0.658 ppby
 RT: 7.764 min Scan# 616
 Delta R.T. 0.001 min
 Lab File: 0409_21.D
 Acq: 09 Apr 2019 06:37 pm

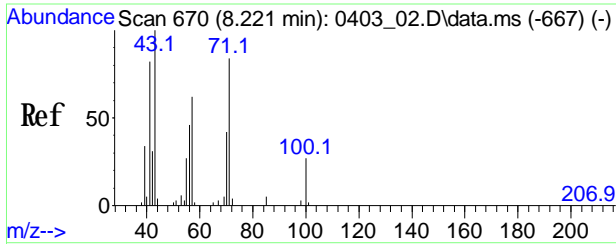
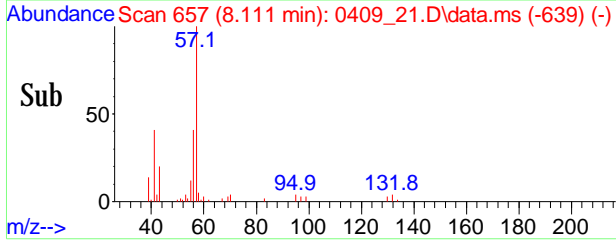
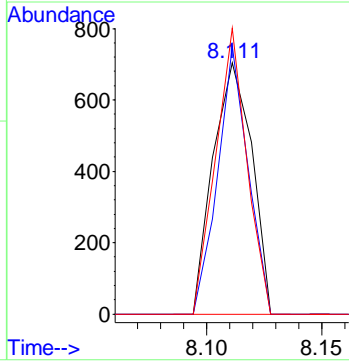
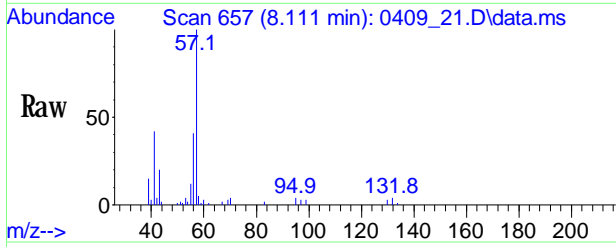
Tgt Ion	Ratio	Resp	Lower	Upper
41	100	7402		
84	100.2	158.4		237.6#
69	260.6	69.1		103.7#





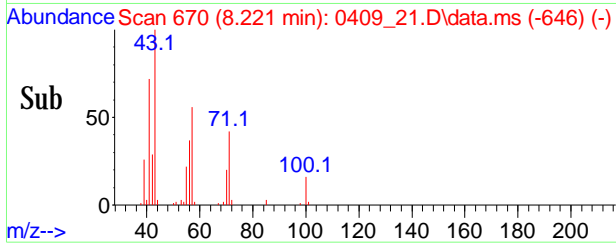
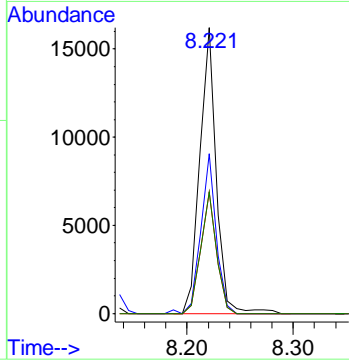
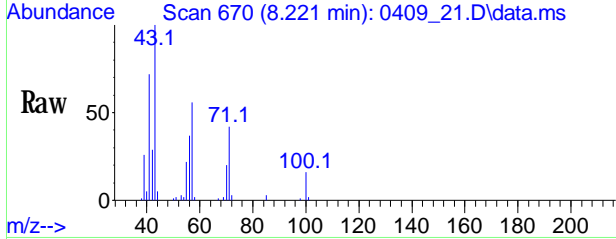
#39
 Trichloroethene
 Conc: 8S Below Cal
 RT: 8.111 min Scan# 657
 Delta R.T. -0.000 min
 Lab File: 0409_21.D
 Acq: 09 Apr 2019 06:37 pm

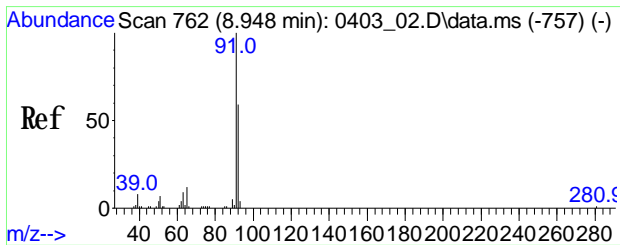
Tgt Ion	Ratio	Resp	Lower	Upper
130	100	826		
132	83.3	78.0		117.0
95	91.5	73.0		109.4



#43
 Heptane
 Conc: 8S 0.856 ppby
 RT: 8.221 min Scan# 670
 Delta R.T. 0.000 min
 Lab File: 0409_21.D
 Acq: 09 Apr 2019 06:37 pm

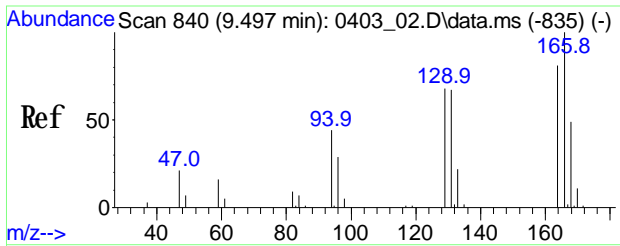
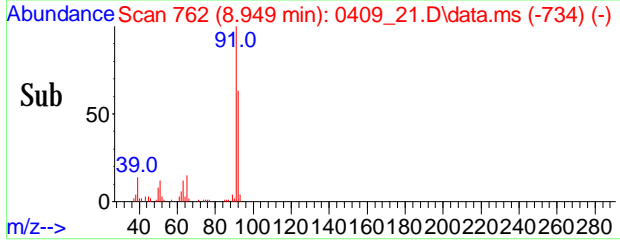
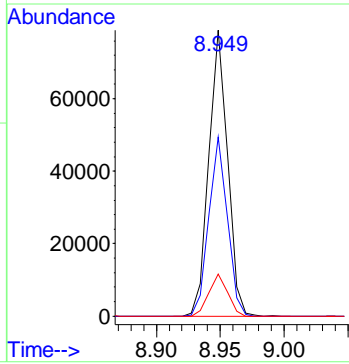
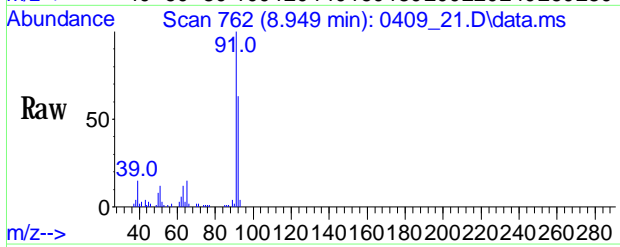
Tgt Ion	Ratio	Resp	Lower	Upper
43	100	17467		
57	52.4	49.7		74.5
71	40.6	62.2		93.2#
71	40.6	62.2		93.2#





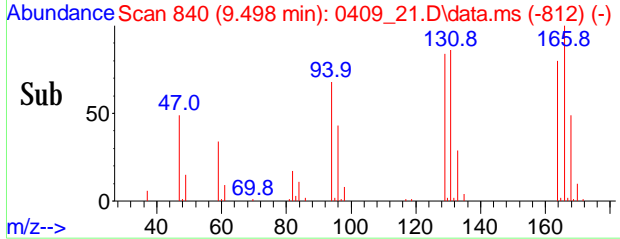
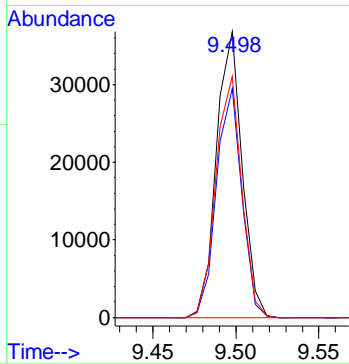
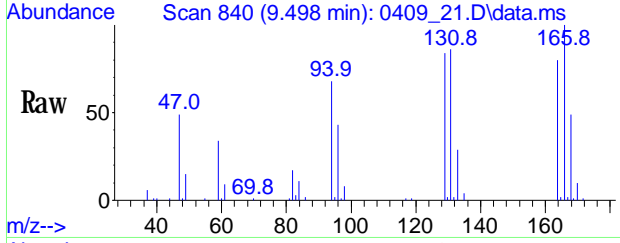
#48
 Toluene
 Conc: 8S 2.387 ppbv
 RT: 8.949 min Scan# 762
 Delta R.T. 0.000 min
 Lab File: 0409_21.D
 Acq: 09 Apr 2019 06:37 pm

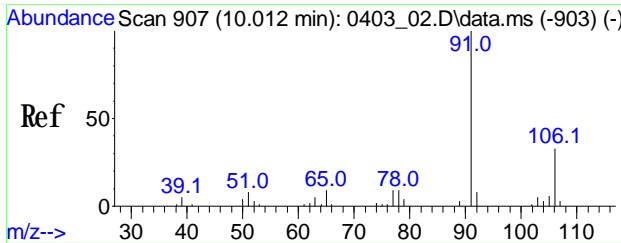
Tgt Ion	Ratio	Resp	Lower	Upper
91	100	79224		
92	61.9	47.7	71.5	
65	14.6	9.3	13.9	#



#52
 Tetrachloroethene
 Conc: 8S 2.452 ppbv
 RT: 9.498 min Scan# 840
 Delta R.T. 0.000 min
 Lab File: 0409_21.D
 Acq: 09 Apr 2019 06:37 pm

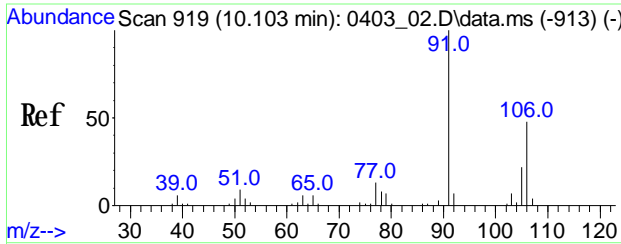
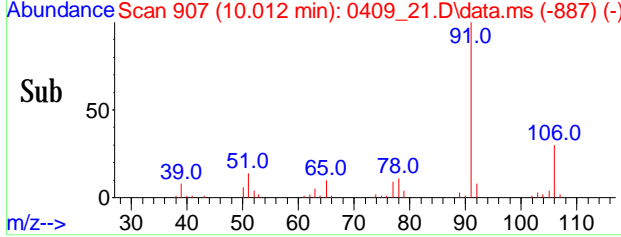
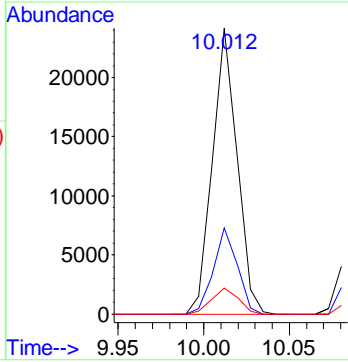
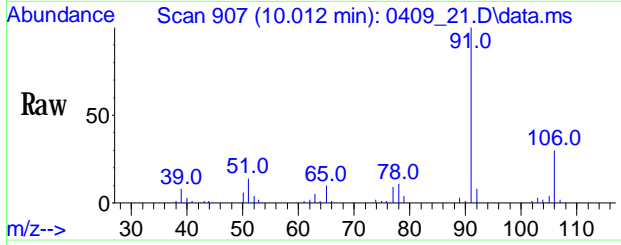
Tgt Ion	Ratio	Resp	Lower	Upper
166	100	39418		
164	79.0	62.2	93.2	
129	85.1	54.9	82.3	#





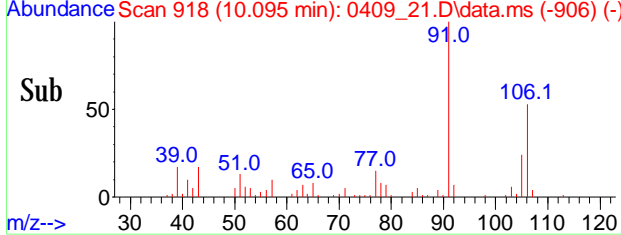
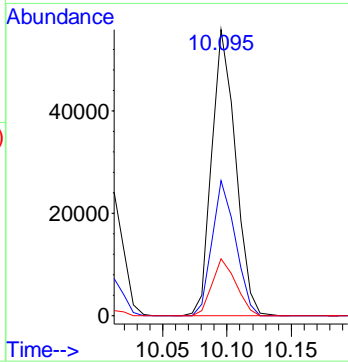
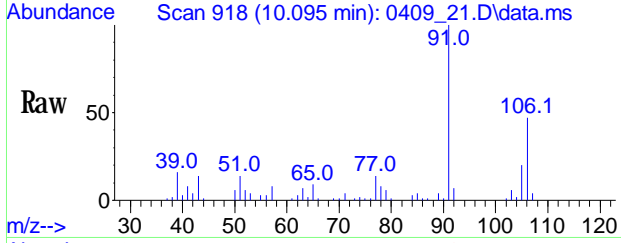
#56
 Ethylbenzene
 Conc: 8S 0.515 ppbv
 RT: 10.012 min Scan# 907
 Delta R.T. 0.000 min
 Lab File: 0409_21.D
 Acq: 09 Apr 2019 06:37 pm

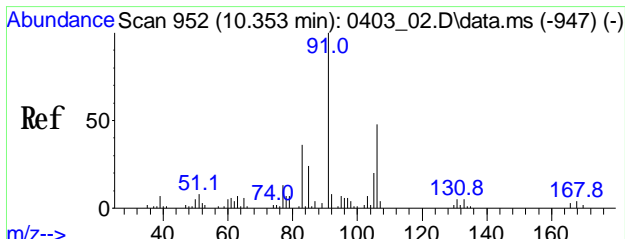
Tgt Ion	Ratio	Resp	Lower	Upper
91	100	24126		
106	29.2	12.6	52.6	
77	9.9	0.0	29.1	



#57
 m p-Xylene
 Conc: 8S 1.998 ppbv
 RT: 10.095 min Scan# 918
 Delta R.T. -0.007 min
 Lab File: 0409_21.D
 Acq: 09 Apr 2019 06:37 pm

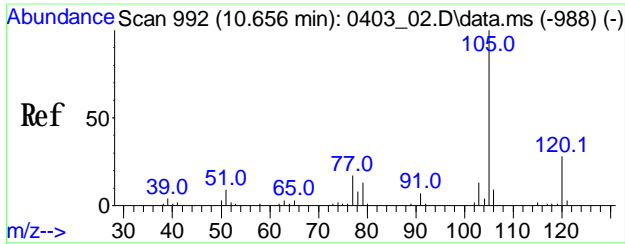
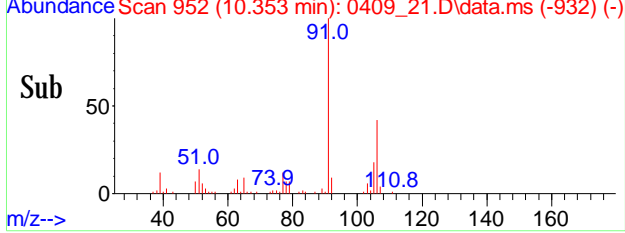
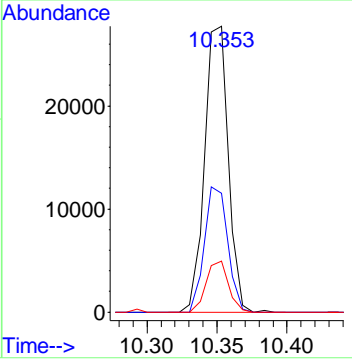
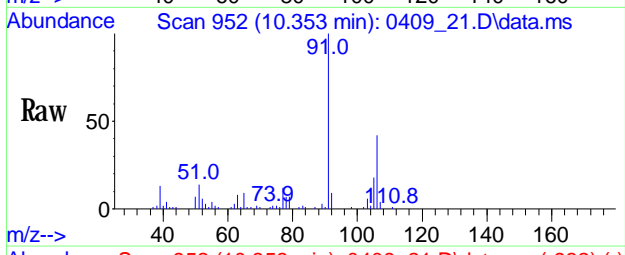
Tgt Ion	Ratio	Resp	Lower	Upper
91	100	71409		
106	46.6	40.9	61.3	
105	20.0	17.8	26.8	





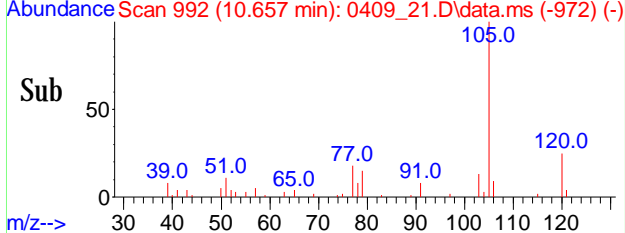
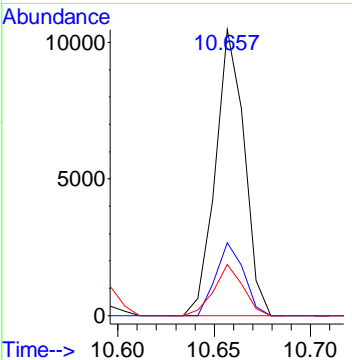
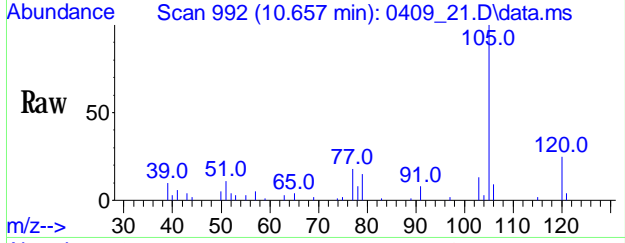
#61
 o-Xylene
 Conc: 8S 0.873 ppbv
 RT: 10.353 min Scan# 952
 Delta R.T. 0.000 min
 Lab File: 0409_21.D
 Acq: 09 Apr 2019 06:37 pm

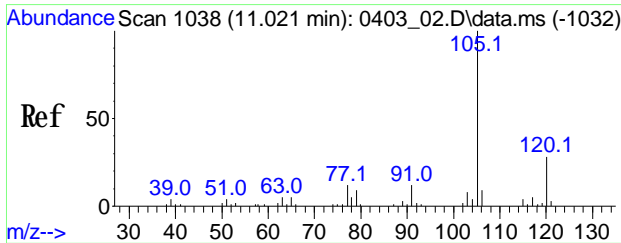
Tgt Ion	Ratio	Resp	Lower	Upper
91	100	32638		
106	43.2	38.3		57.5
105	16.9	15.2		22.8



#64
 Isopropylbenzene
 Conc: 8S 0.223 ppbv
 RT: 10.657 min Scan# 992
 Delta R.T. 0.000 min
 Lab File: 0409_21.D
 Acq: 09 Apr 2019 06:37 pm

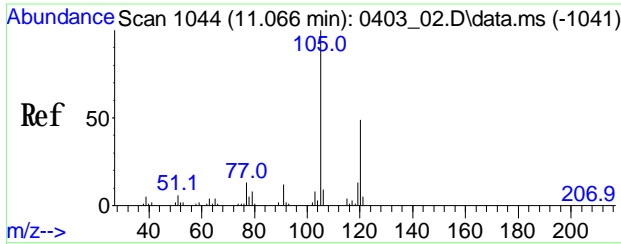
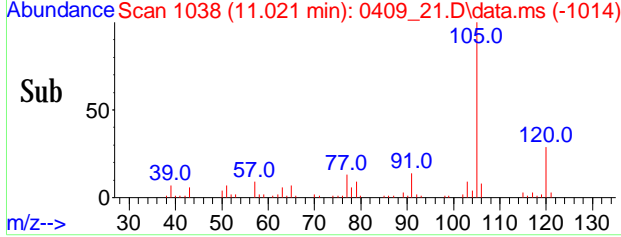
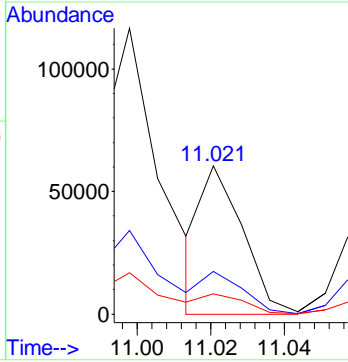
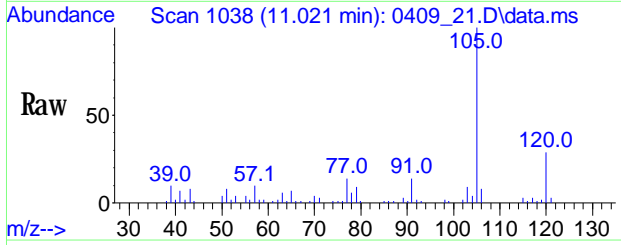
Tgt Ion	Ratio	Resp	Lower	Upper
105	100	10996		
120	24.7	22.0		33.0
77	17.9	12.7		19.1





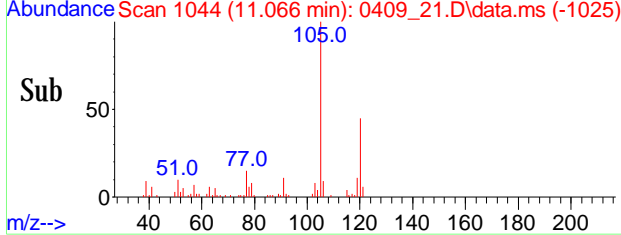
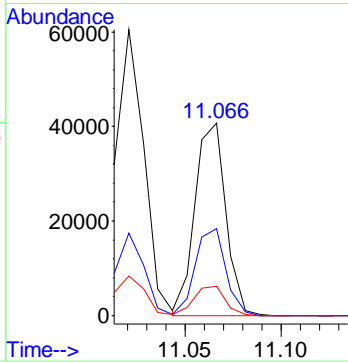
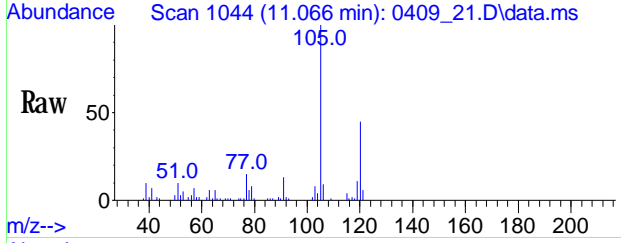
#66
 4-Ethyltoluene
 Conc: 8S 0.953 ppby
 RT: 11.021 min Scan# 1038
 Delta R.T. 0.000 min
 Lab File: 0409_21.D
 Acq: 09 Apr 2019 06:37 pm

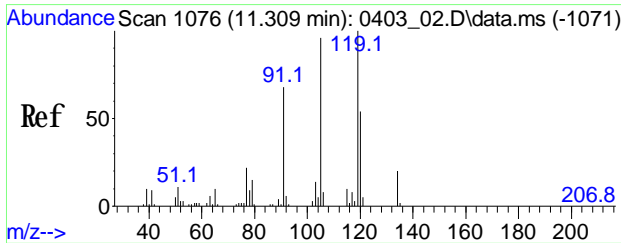
Tgt Ion	Ratio	Resp	Upper
105	100	47187	
120	109.5	25.0	37.4#
77	54.3	9.4	14.0#



#67
 1,3,5-Trimethylbenzene
 Conc: 8S 1.071 ppby
 RT: 11.066 min Scan# 1044
 Delta R.T. 0.000 min
 Lab File: 0409_21.D
 Acq: 09 Apr 2019 06:37 pm

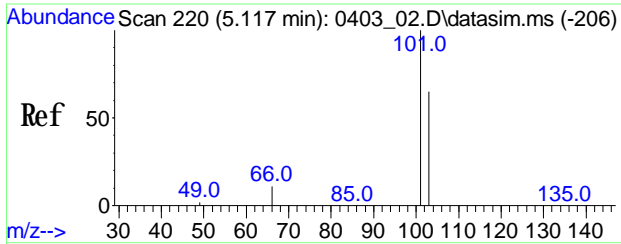
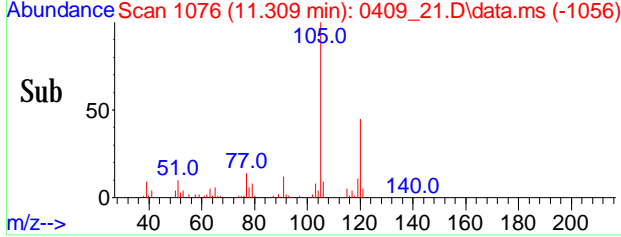
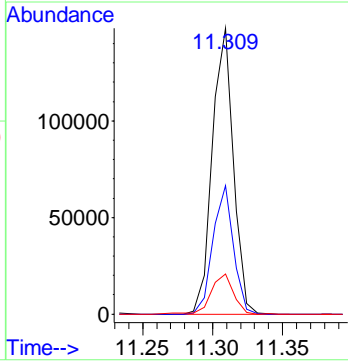
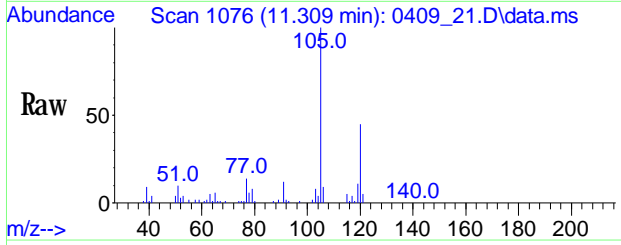
Tgt Ion	Ratio	Resp	Upper
105	100	45645	
120	44.6	39.7	59.5
77	15.4	10.2	15.4#





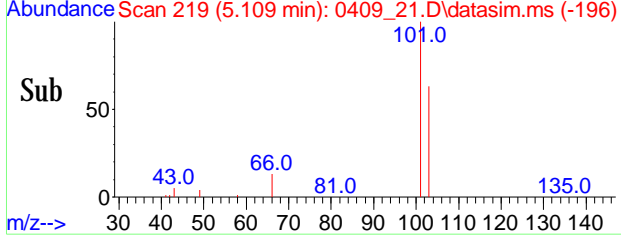
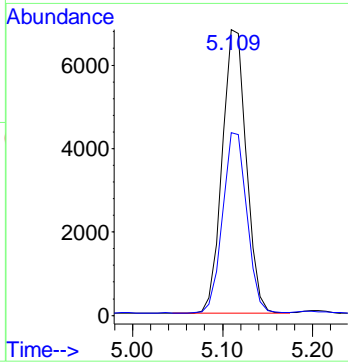
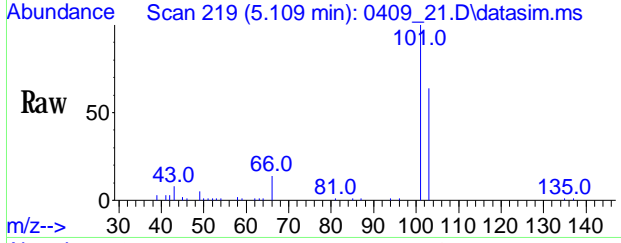
#68
 1,2,4-Trimethylbenzene
 Conc: 8S 3.731 ppby
 RT: 11.309 min Scan# 1076
 Delta R.T. 0.000 min
 Lab File: 0409_21.D
 Acq: 09 Apr 2019 06:37 pm

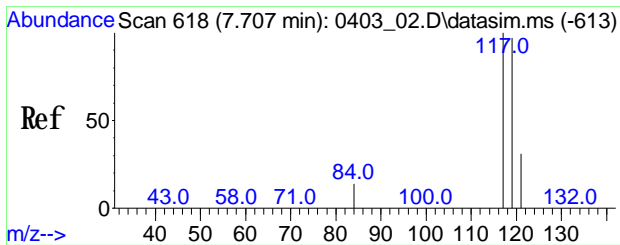
Tgt Ion	Ratio	Resp	Lower	Upper
105	100	155724		
120	43.5	44.5	66.7#	
77	15.1	19.7	29.5#	



#84
 Trichlorofluoromethane (sim)
 Conc: 8S 0.221 ppby
 RT: 5.109 min Scan# 219
 Delta R.T. -0.016 min
 Lab File: 0409_21.D
 Acq: 09 Apr 2019 06:37 pm

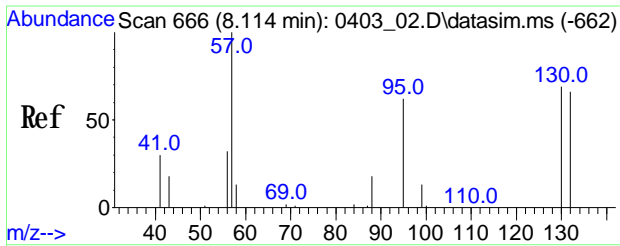
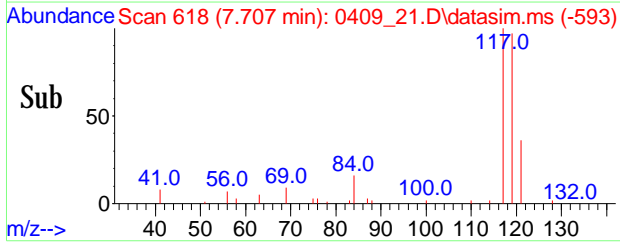
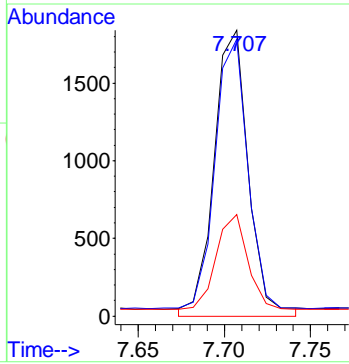
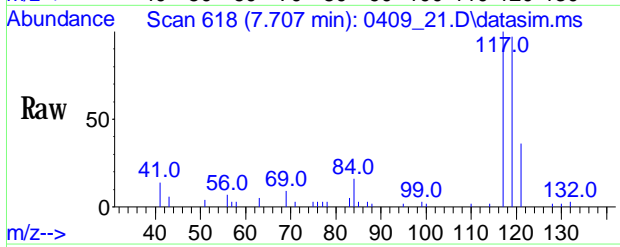
Tgt Ion	Ratio	Resp	Lower	Upper
101	100	12713		
103	63.8	51.9	77.9	





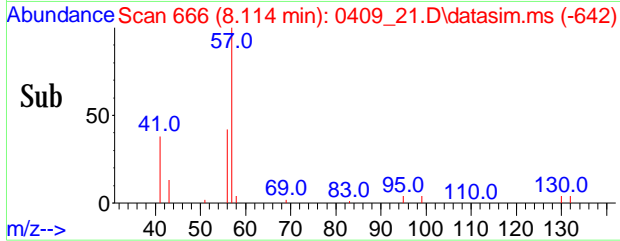
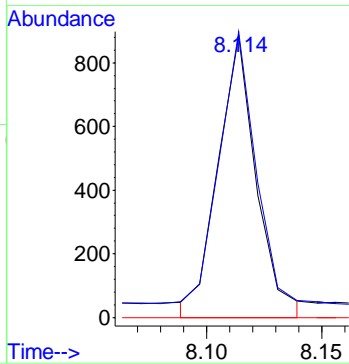
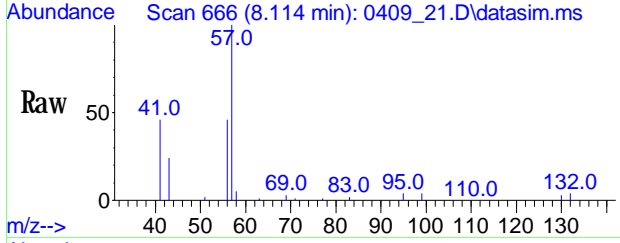
#87
 Carbon Tetrachloride(sim)
 Conc: 8S 0.087 ppbv
 RT: 7.704 min Scan# 618
 Delta R.T. 0.000 min
 Lab File: 0409_21.D
 Acq: 09 Apr 2019 06:37 pm

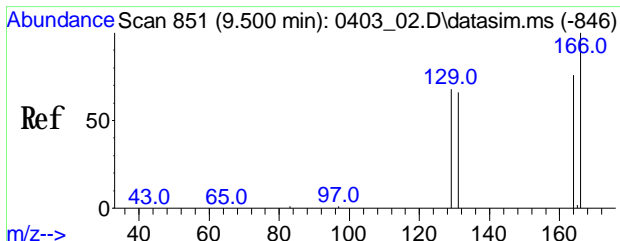
Tgt Ion	Ratio	Resp	Lower	Upper
117	100	1944		
119	81.8	76.6		115.0
121	33.4	24.6		36.8



#97
 Trichloroethene(sim)
 Conc: 8S 0.050 ppbv
 RT: 8.111 min Scan# 666
 Delta R.T. 0.000 min
 Lab File: 0409_21.D
 Acq: 09 Apr 2019 06:37 pm

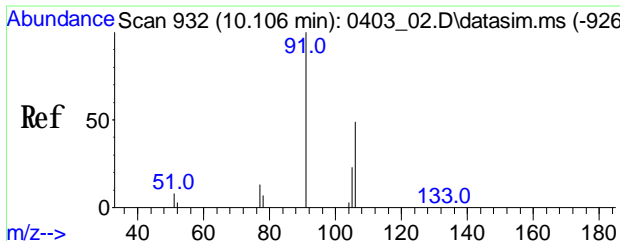
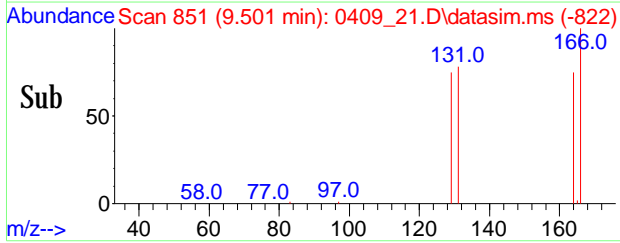
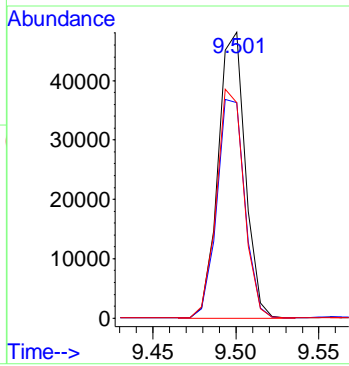
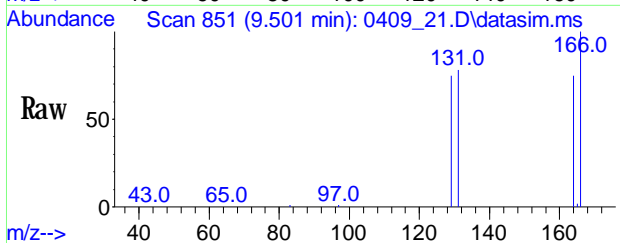
Tgt Ion	Ratio	Resp	Lower	Upper
130	100	826		
132	83.3	78.0		117.0
97	76.2	47.2		70.8#





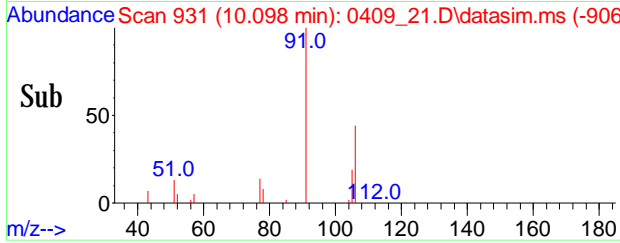
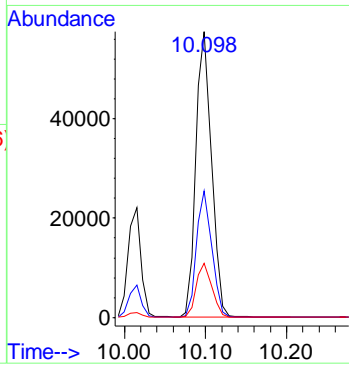
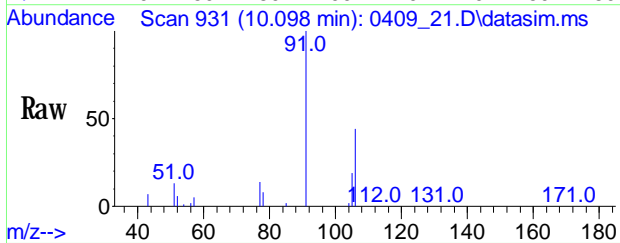
#103
 Tetrachloroethene (sim)
 Conc: 8S 2.182 ppbv
 RT: 9.498 min Scan# 851
 Delta R.T. 0.000 min
 Lab File: 0409_21.D
 Acq: 09 Apr 2019 06:37 pm

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	39418		
164	79.0	57.7	97.7	
129	85.1	48.6	88.6	



#106
 m,p-Xylene (sim)
 Conc: 8S 2.046 ppbv
 RT: 10.098 min Scan# 931
 Delta R.T. -0.007 min
 Lab File: 0409_21.D
 Acq: 09 Apr 2019 06:37 pm

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	77048		
106	43.4	44.3	54.1#	
105	18.9	17.7	26.5	



1
AIR ANALYSIS DATA SHEET

CLIENT ID

CC90523 LCS

Client: WALDENE Lab: Phoenix Env. Labs

SDG No.: GCC90508 Lab Sample ID: CC90523 LCS

Canister: LCS Lab File ID: 0409_43.D

Instrument: CHEM20 Column: RTX-1 60M Date Received: 04/08/19

Purge Volume 200 (cc) Date Analyzed: 04/10/19

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	11.9		0.581	0.581	r
75-71-8	Dichlorodifluoromethane	11.4		0.202	0.202	r
74-87-3	Chloromethane	13.2		0.485	0.485	r
76-14-2	1,2-Dichlorotetrafluoroethane	12.7		0.143	0.143	r
75-01-4	Vinyl Chloride	12.8		0.078	0.078	r
106-99-0	1,3-Butadiene	13.3		0.452	0.452	r
74-83-9	Bromomethane	12.1		0.258	0.258	r
75-00-3	Chloroethane	12.7		0.379	0.379	r
64-17-5	Ethanol	12.9		0.531	0.531	r
67-64-1	Acetone	13.2		0.421	0.421	r
75-69-4	Trichlorofluoromethane	12.5		0.178	0.178	r
67-63-0	Isopropylalcohol	13.1		0.407	0.407	r
107-13-1	Acrylonitrile	14.2		0.461	0.461	r
75-35-4	1,1-Dichloroethene	13.0		0.051	0.051	r
75-09-2	Methylene Chloride	13.4		0.864	0.864	r
75-15-0	Carbon Disulfide	12.6		0.321	0.321	r
76-13-1	Trichlorotrifluoroethane	12.8		0.131	0.131	r
156-60-5	Trans-1,2-Dichloroethene	11.7		0.252	0.252	r
75-34-3	1,1-Dichloroethane	11.1		0.247	0.247	r
1634-04-4	Methyl tert-butyl ether(MTBE)	11.3		0.278	0.278	r
78-93-3	Methyl Ethyl Ketone	12.3		0.339	0.339	r
156-59-2	Cis-1,2-Dichloroethene	12.0		0.051	0.051	r
110-54-3	Hexane	12.5		0.284	0.284	r
67-66-3	Chloroform	11.7		0.205	0.205	r
141-78-6	Ethyl acetate	12.8		0.278	0.278	r
109-99-9	Tetrahydrofuran	13.4		0.339	0.339	r
107-06-2	1,2-Dichloroethane	12.8		0.247	0.247	r
71-55-6	1,1,1-Trichloroethane	12.9		0.183	0.183	r
71-43-2	Benzene	12.2		0.313	0.313	r
56-23-5	Carbon Tetrachloride	15.1		0.032	0.032	r
110-82-7	Cyclohexane	13.5		0.291	0.291	r
78-87-5	1,2-dichloropropane	10.7		0.217	0.217	r
75-27-4	Bromodichloromethane	12.0		0.149	0.149	r
79-01-6	Trichloroethene	10.5		0.037	0.037	r
123-91-1	1,4-Dioxane	10.5		0.278	0.278	r
142-82-5	Heptane	12.1		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

CC90523 LCS

Client: WALDENE Lab: Phoenix Env. Labs

SDG No.: GCC90508 Lab Sample ID: CC90523 LCS

Canister: LCS Lab File ID: 0409_43.D

Instrument: CHEM20 Column: RTX-1 60M Date Received: 04/08/19

Purge Volume 200 (cc) Date Analyzed: 04/10/19

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	12.0		0.220	0.220	r
108-10-1	4-Methyl-2-pentanone(MIBK)	13.2		0.244	0.244	r
10061-02-6	trans-1,3-Dichloropropene	12.3		0.220	0.220	r
79-00-5	1,1,2-Trichloroethane	10.7		0.183	0.183	r
108-88-3	Toluene	11.1		0.266	0.266	r
124-48-1	Dibromochloromethane	14.5		0.117	0.117	r
591-78-6	2-Hexanone(MBK)	12.6		0.244	0.244	r
106-93-4	1,2-Dibromoethane(EDB)	11.1		0.130	0.130	r
127-18-4	Tetrachloroethene	10.7		0.037	0.037	r
630-20-6	1,1,1,2-Tetrachloroethane	11.7		0.146	0.146	r
108-90-7	Chlorobenzene	9.92		0.217	0.217	r
100-41-4	Ethylbenzene	10.4		0.230	0.230	r
179601-23-1	m,p-Xylene	22.1		0.230	0.230	r
75-25-2	Bromoform	16.0		0.097	0.097	r
100-42-5	Styrene	10.9		0.235	0.235	r
79-34-5	1,1,2,2-Tetrachloroethane	10.8		0.146	0.146	r
95-47-6	o-Xylene	10.6		0.230	0.230	r
98-82-8	Isopropylbenzene	10.3		0.204	0.204	r
622-96-8	4-Ethyltoluene	10.8		0.204	0.204	r
108-67-8	1,3,5-Trimethylbenzene	10.7		0.204	0.204	r
95-63-6	1,2,4-Trimethylbenzene	11.2		0.204	0.204	r
100-44-7	Benzyl chloride	4.34		0.193	0.193	r
541-73-1	1,3-Dichlorobenzene	10.6		0.166	0.166	r
106-46-7	1,4-Dichlorobenzene	10.8		0.166	0.166	r
135-98-8	sec-Butylbenzene	10.5		0.182	0.182	r
99-87-6	4-Isopropyltoluene	10.9		0.182	0.182	r
95-50-1	1,2-Dichlorobenzene	10.9		0.166	0.166	r
104-51-8	n-Butylbenzene	11.4		0.182	0.182	r
120-82-1	1,2,4-Trichlorobenzene	14.6		0.135	0.135	r
87-68-3	Hexachlorobutadiene	12.9		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

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2019\CHEM20\04APR\09\
 Data File : 0409_43.D
 Acq On : 10 Apr 2019 09:05 am
 Operator : CORTEX\ms
 Client ID : CC90523 LCS
 Lab ID : CC90523 LCS
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 10 10:46:03 2019
 Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_0409.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Wed Apr 10 09:42:38 2019
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
Internal Standards						
1) Bromchloromethane	6.879	130	109338	10.000	ng	0.00
36) 1,4-Difluorobenzene	7.780	114	372985	10.000	ng	0.00
53) Chlorobenzene-d5	9.815	82	193517	10.000	ng	# 0.00
80) Bromchloromethane(sim)	6.882	130	148993	10.000	ng	# 0.00
94) 1,4-Difluorobenzene(sim)	7.783	114	424054	10.000	ng	0.00
104) Chlorobenzene-d5(sim)	9.810	82	195889	10.000	ng	# 0.00

System Monitoring Compounds						
62) % Bromfluorobenzene	10.596	95	256341	10.104	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	101.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propylene	3.597	41	153307	11.901	ppbv	96
3) Dichlorodifluoromethane	3.670	85	320458	11.429	ppbv#	95
4) Chloromethane	3.824	50	154964	13.231	ppbv	97
5) 1,2-Dichlorotetrafluor...	3.922	85	345200	12.658	ppbv	92
6) Vinyl Chloride	4.019	62	145633	12.801	ppbv	95
7) 1,3-Butadiene	4.149	54	127213	13.272	ppbv#	82
8) Bromomethane	4.376	94	115554	12.135	ppbv#	96
9) Chloroethane	4.522	64	67638	12.668	ppbv	84
11) Ethanol	4.644	45	60654	12.892	ppbv	97
12) Acetone	5.001	43	322866	13.207	ppbv#	85
13) Trichlorofluoromethane	5.114	101	458486	12.504	ppbv	99
14) Isopropylalcohol	5.187	45	337047	13.086	ppbv#	95
15) Acrylonitrile	5.341	53	90474	14.199	ppbv	94
16) 1,1-Dichloroethene	5.572	61	286983	13.018	ppbv#	72
17) Methylene Chloride	5.655	49	218712	13.348	ppbv#	53
20) Carbon Disulfide	5.864	76	300901	12.551	ppbv	99
21) Trichlorotrifluoroethane	5.822	101	277715	12.806	ppbv#	88
22) Trans-1,2-Dichloroethene	6.234	61	219327	11.730	ppbv#	76
23) 1,1-Dichloroethane	6.354	63	256751	11.082	ppbv	95
24) Methyl tert-butyl ethe...	6.380	73	321642	11.284	ppbv#	67
25) Methyl Ethyl Ketone	6.562	43	377012	12.256	ppbv#	75
26) Cis-1,2-Dichloroethene	6.794	61	216008	12.031	ppbv#	69
27) Hexane	6.887	57	220300	12.461	ppbv#	77
28) Chloroform	6.941	83	298446	11.741	ppbv	89
29) Ethyl acetate	6.887	61	43774	12.746	ppbv#	71
30) Tetrahydrofuran	7.135	42	173780	13.426	ppbv#	58
31) 1,2-Dichloroethane	7.297	62	277582	12.802	ppbv#	91
32) 1,1,1-Trichloroethane	7.421	97	319736	12.891	ppbv#	89
33) Benzene	7.636	78	293134	12.226	ppbv#	85
34) Carbon Tetrachloride	7.704	117	312783	15.123	ppbv	99
35) Cyclohexane	7.763	41	129677	13.455	ppbv#	39
37) 1,2-dichloropropane	8.009	63	128820	10.732	ppbv#	78
38) Bromdichloromethane	8.094	83	293632	12.021	ppbv	99
39) Trichloroethene	8.111	130	146599	10.469	ppbv	90
41) 1,4-Dioxane	8.102	88	60955	10.473	ppbv#	58
43) Heptane	8.221	43	226782	12.055	ppbv#	68
44) cis-1,3-Dichloropropene	8.492	75	182616	12.010	ppbv	96
45) 4-Methyl-2-pentanone(M..	8.492	43	340415	13.212	ppbv#	78
46) trans-1,3-Dichloropropene	8.723	75	180175	12.275	ppbv	95
47) 1,1,2-Trichloroethane	8.815	97	126116	10.694	ppbv	92
48) Toluene	8.948	91	339717	11.108	ppbv#	97
49) Dibromchloromethane	9.160	129	262756	14.537	ppbv	98
50) 2-Hexanone (MBK)	9.040	43	295887	12.607	ppbv#	86
51) 1,2-Dibromethane (EDB)	9.279	107	219990	11.061	ppbv	100

Data Path : H:\AIR2019\CHEM20\04APR\09\
 Data File : 0409_43.D
 Acq On : 10 Apr 2019 09:05 am
 Operator : CORTEX.ms
 Client ID : CC90523 LCS
 Lab ID : CC90523 LCS
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 10 10:46:03 2019
 Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_0409.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Wed Apr 10 09:42:38 2019
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
52) Tetrachloroethene	9.497	166	158943	10.731	ppbv#	87
54) 1,1,1,2-Tetrachloroethane	9.822	131	174307	11.711	ppbv	97
55) Chlorobenzene	9.837	112	293449	9.915	ppbv	95
56) Ethylbenzene	10.012	91	474838	10.358	ppbv	97
57) m p-Xylene	10.103	91	771606	22.053	ppbv	93
58) Bromoform	10.164	173	199138	15.988	ppbv	99
59) Styrene	10.292	104	276588	10.883	ppbv#	85
60) 1,1,2,2-Tetrachloroethane	10.345	83	282732	10.775	ppbv	91
61) o-Xylene	10.353	91	389333	10.635	ppbv	96
64) Isopropylbenzene	10.656	105	495587	10.290	ppbv	94
66) 4-Ethyltoluene	11.021	105	523803	10.808	ppbv	95
67) 1,3,5-Trimethylbenzene	11.066	105	447730	10.729	ppbv	95
68) 1,2,4-Trimethylbenzene	11.309	105	457499	11.197	ppbv	95
70) Benzyl chloride	11.469	91	113342	4.338	ppbv#	62
71) 1,3-Dichlorobenzene	11.408	146	288299	10.598	ppbv	95
72) 1,4-Dichlorobenzene	11.453	146	288050	10.789	ppbv	94
73) sec-Butylbenzene	11.469	105	596608	10.473	ppbv	96
74) 4-Isopropyltoluene	11.560	119	541974	10.913	ppbv	94
75) 1,2-Dichlorobenzene	11.666	146	280550	10.851	ppbv	95
76) n-Butylbenzene	11.826	91	508224	11.348	ppbv	95
77) 1,2,4-Trichlorobenzene	12.782	180	148710	14.626	ppbv#	94
79) Hexachlorobutadiene	13.094	225	140298	12.943	ppbv	99
81) 1,2-Dichlorotetrafluor...	3.922	85	344847	11.374	ppbv	92
82) Vinyl Chloride(sim)	4.022	62	165415	11.517	ppbv	95
83) Bromomethane(sim)	4.376	94	115554	9.663	ppbv#	96
84) Trichlorofluoromethane...	5.117	101	559618	11.254	ppbv	99
85) 1,2-Dichloroethane(sim)	7.297	62	277582	11.530	ppbv#	91
86) 1,1,1-Trichloroethane(...)	7.424	97	393255	12.437	ppbv#	90
87) Carbon Tetrachloride(sim)	7.704	117	312783	16.112	ppbv	99
88) 1,1-Dichloroethene(sim)	5.575	61	330517	11.733	ppbv#	68
89) Trichlorotrifluoroetha...	5.822	101	277715	11.134	ppbv	99
90) Trans-1,2-Dichloroethe...	6.237	61	251738	10.547	ppbv#	77
91) 1,1-Dichloroethane(sim)	6.354	63	256751	9.816	ppbv	95
92) Cis-1,2-Dichloroethene...	6.789	61	249350	11.083	ppbv#	72
93) Chloroform(sim)	6.941	83	298446	10.573	ppbv#	89
95) 1,2-dichloropropane(sim)	8.009	63	128820	10.233	ppbv#	78
96) Bromdichloromethane(sim)	8.097	85	223118	12.669	ppbv	93
97) Trichloroethene(sim)	8.111	130	146599	9.596	ppbv	92
98) 1,4-Dioxane(sim)	8.105	88	64812	9.527	ppbv#	60
99) cis-1,3-Dichloropropen...	8.492	75	182616	13.708	ppbv	96
100) 1,1,2-Trichloroethane(...)	8.818	97	154375	10.749	ppbv	93
101) Dibromochloromethane(sim)	9.160	129	262756	15.625	ppbv	98
102) 1,2-Dibromomethane(EDB)...	9.282	107	269189	12.088	ppbv	98
103) Tetrachloroethene(sim)	9.497	166	158943	9.542	ppbv	87
105) Bromoform(sim)	10.164	173	199138	17.038	ppbv	99
106) m p-Xylene(sim)	10.098	91	794269	16.556	ppbv#	93
107) 1,1,2,2-Tetrachloroeth...	10.345	83	282732	10.891	ppbv	98
110) Benzyl chloride(sim)	11.396	91	346195	8.863	ppbv	93
111) 1,3-Dichlorobenzene(sim)	11.408	146	288299	11.903	ppbv	95
112) 1,4-Dichlorobenzene(sim)	11.449	146	356242	12.845	ppbv	96
113) sec-Butylbenzene(sim)	11.469	105	596279	8.128	ppbv	96
114) 4-Isopropyltoluene(sim)	11.563	119	511351	8.065	ppbv#	91
115) 1,2-Dichlorobenzene(sim)	11.666	146	280550	12.664	ppbv	95
116) n-Butylbenzene(sim)	11.821	91	524503	8.040	ppbv	94
117) 1,2,4-Trichlorobenzene...	12.782	180	148710	10.576	ppbv	94
119) Hexachlorobutadiene(sim)	13.094	225	140221	12.376	ppbv	99

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2019\CHEM20\04APR\09\
Data File : 0409_43.D
Acq On : 10 Apr 2019 09:05 am
Operator : CORTEX\ms
Client ID : CC90523 LCS
Lab ID : CC90523 LCS
ALS Vial : 1 Sample Multiplier: 1

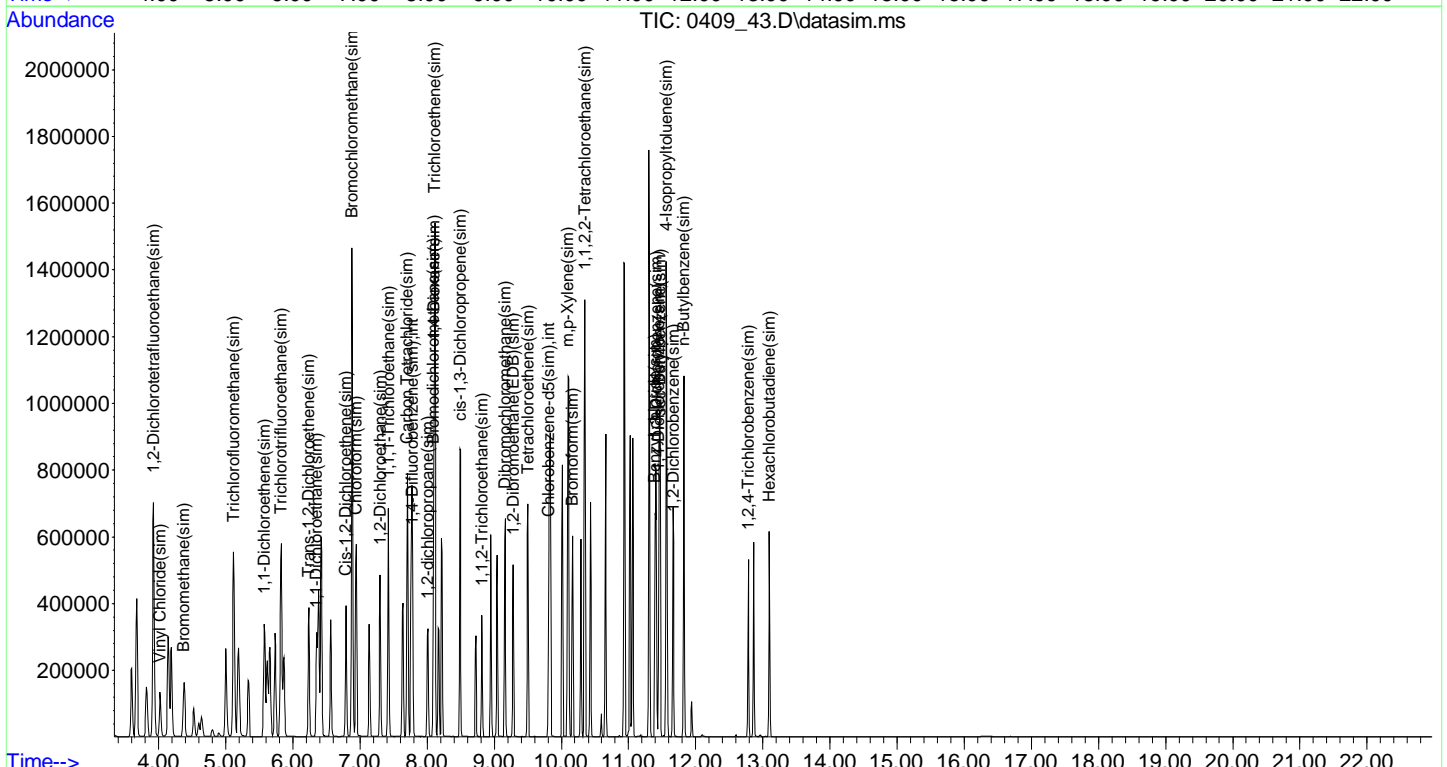
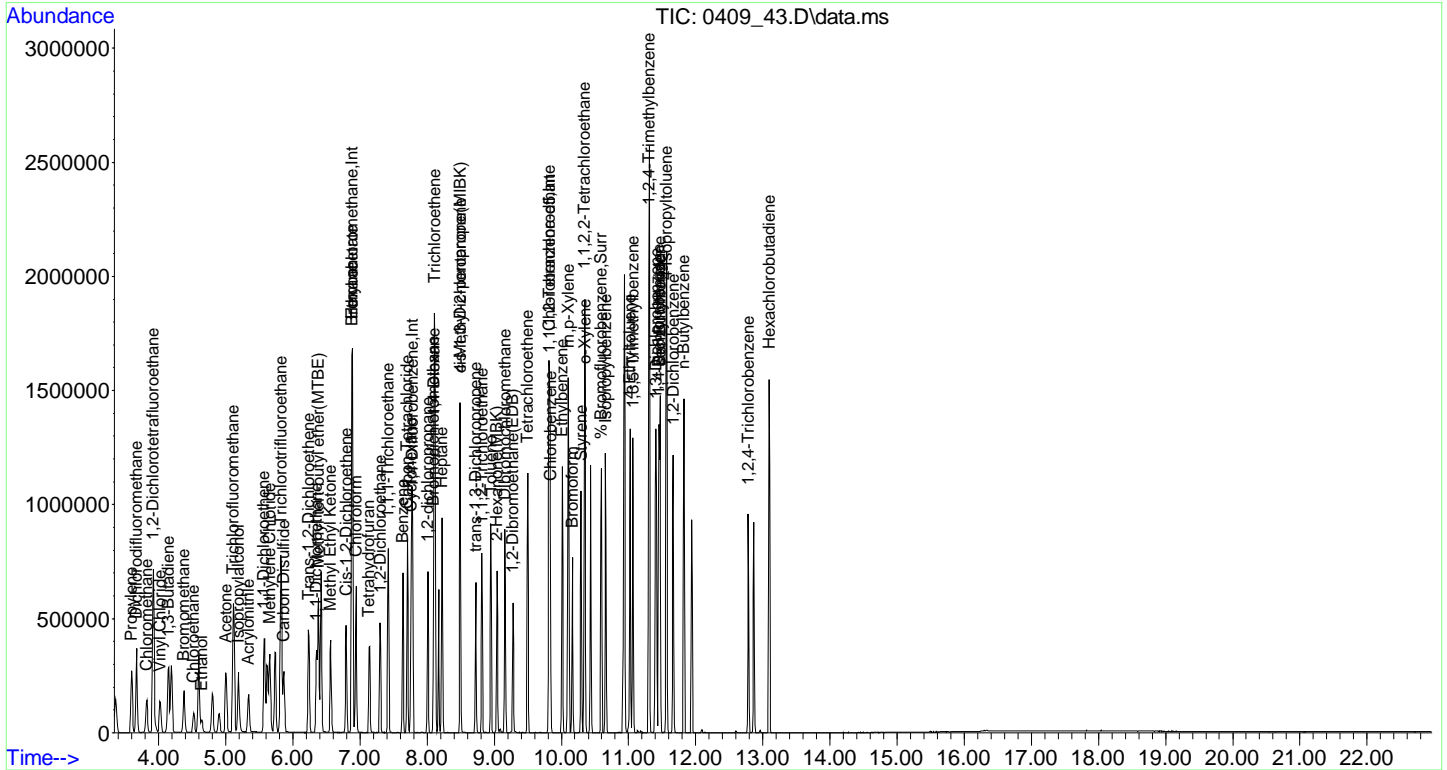
Quant Time: Apr 10 10:46:03 2019
Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_0409.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Wed Apr 10 09:42:38 2019
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
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(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2019\CHEM20\04APR\09\
 Data File : 0409_43.D
 Acq On : 10 Apr 2019 09:05 am
 Operator : CORTEX.ms
 Client ID : CC90523 LCS
 Lab ID : CC90523 LCS
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 10 10:46:03 2019
 Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_0409.M
 Quant Title : VOA Standards for 5 point calibration
 Last Update : Wed Apr 10 09:42:38 2019
 Response via : Initial Calibration



1
AIR ANALYSIS DATA SHEET

CLIENT ID

CC90523 BLANK

Client:	WALDENE	Lab:	Phoenix Env. Labs
SDG No.:	GCC90508	Lab Sample ID:	CC90523 BL
Canister:	BL	Lab File ID:	0409_46.D
Instrument:	CHEM20	Column:	RTX-1 60M
Purge Volume	200	(cc)	Date Received: 04/08/19
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
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	0.864	U	0.864	0.864	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
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
630-20-6	1,1,1,2-Tetrachloroethane	0.146	U	0.146	0.146	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)	0.078	U	0.078	0.078	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

CC90523 BLANK

Client:	<u>WALDENE</u>	Lab:	<u>Phoenix Env. Labs</u>
SDG No.:	<u>GCC90508</u>	Lab Sample ID:	<u>CC90523 BL</u>
Canister:	<u>BL</u>	Lab File ID:	<u>0409_46.D</u>
Instrument:	<u>CHEM20</u>	Column:	<u>RTX-1 60M</u>
Purge Volume	<u>200</u> (cc)	Date Received:	<u>04/08/19</u>
Matrix:	<u>AIR</u>	Date Analyzed:	<u>04/10/19</u>
		Dilution Factor:	<u>1</u>

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	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)	0.032	U	0.032	0.032	r
75-35-4	1,1-Dichloroethene(sim)	0.051	U	0.051	0.051	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
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)	2.77	U	2.77	2.77	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)	2.77	U	2.77	2.77	r
75-25-2	Bromoform(sim)	0.097	U	0.097	0.097	r
179601-23-1	m,p-Xylene(sim)	0.230	U	0.230	0.230	r
79-34-5	1,1,1,2-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

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2019\CHEM20\04APR\09\
 Data File : 0409_46.D
 Acq On : 10 Apr 2019 10:54 am
 Operator : CORTEX\ms
 Client ID : CC90523 BLANK
 Lab ID : CC90523 BLANK
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 10 16:00:17 2019
 Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_0409.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Wed Apr 10 09:42:38 2019
 Response via : Initial Calibration

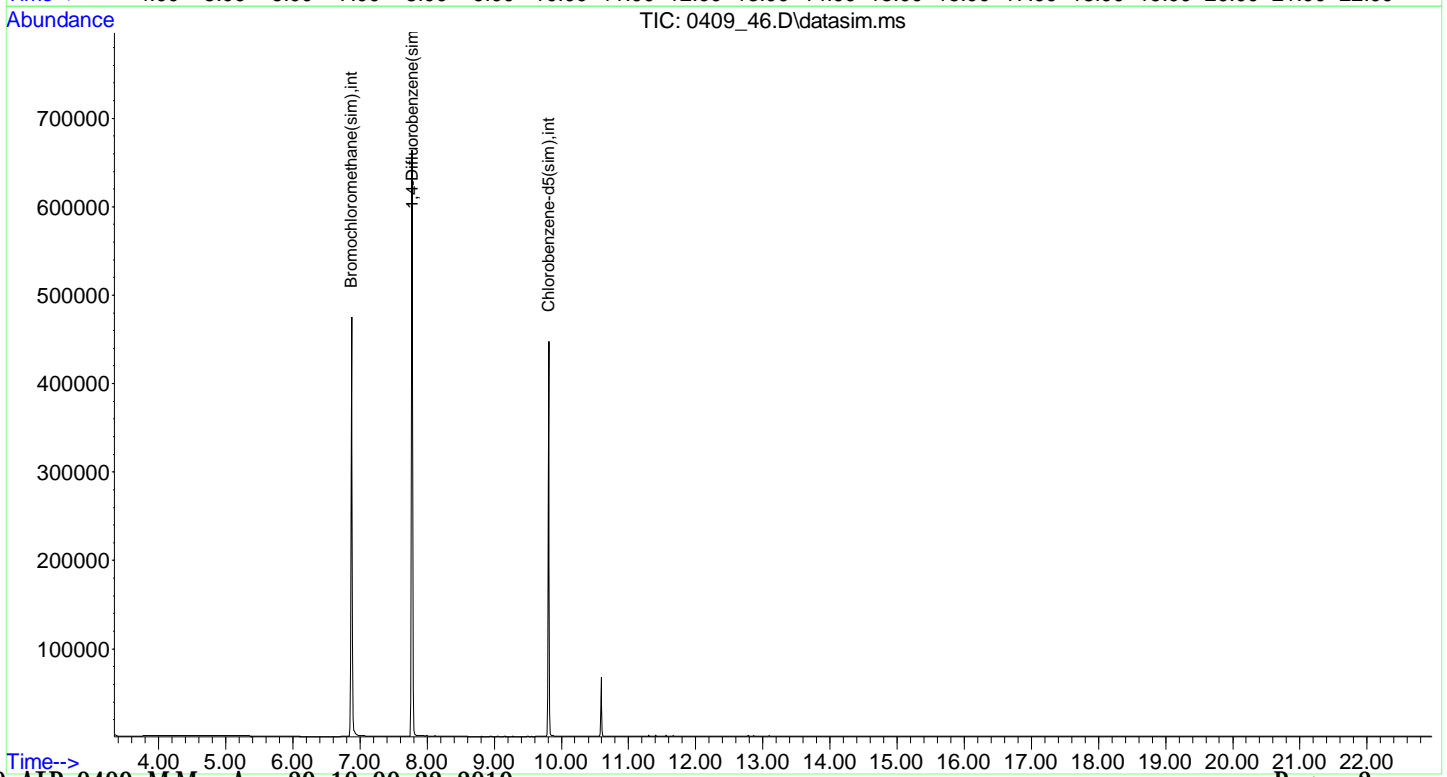
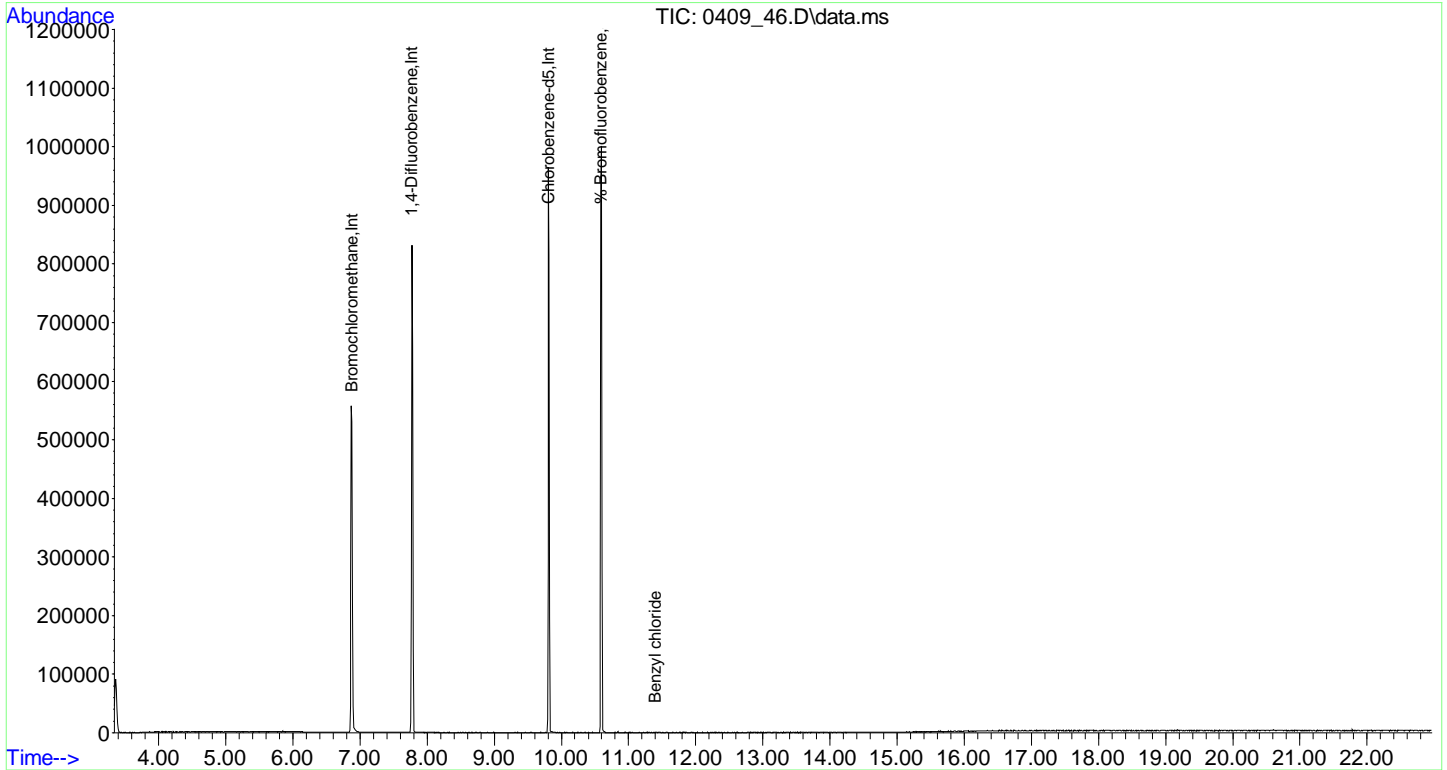
Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
Internal Standards						
1) Bromchloromethane	6.879	130	106351	10.000	ng	0.00
36) 1,4-Difluorobenzene	7.772	114	352841	10.000	ng	0.00
53) Chlorobenzene-d5	9.807	82	175545	10.000	ng	# 0.00
80) Bromchloromethane(sim)	6.874	130	146799	10.000	ng	# 0.00
94) 1,4-Difluorobenzene(sim)	7.775	114	404965	10.000	ng	0.00
104) Chlorobenzene-d5(sim)	9.810	82	173605	10.000	ng	# 0.00
System Monitoring Compounds						
62) % Bromfluorobenzene	10.596	95	224221	9.743	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	97.40%
Target Compounds						
70) Benzyl chloride	11.400	91	81	0.555	ppbv#	Qvalue 59

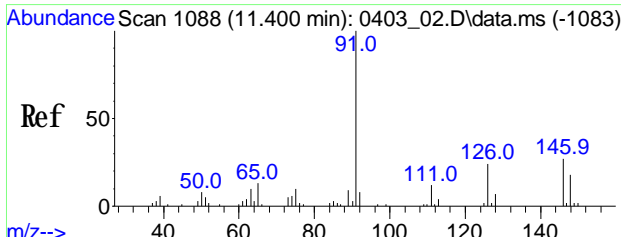
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2019\CHEM20\04APR\09\
Data File : 0409_46.D
Acq On : 10 Apr 2019 10:54 am
Operator : CORTEX.ms
Client ID : CC90523 BLANK
Lab ID : CC90523 BLANK
ALS Vial : 1 Sample Multiplier: 1

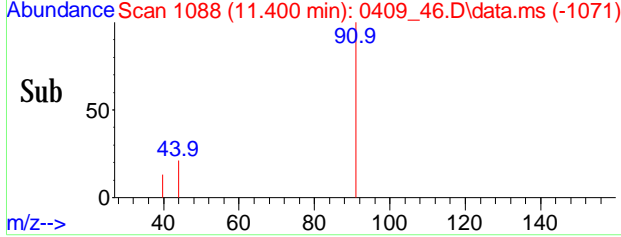
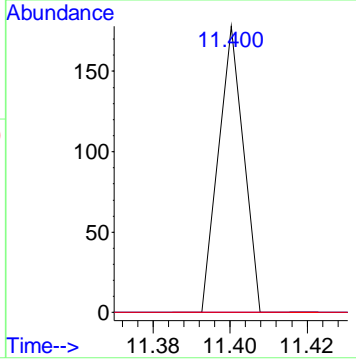
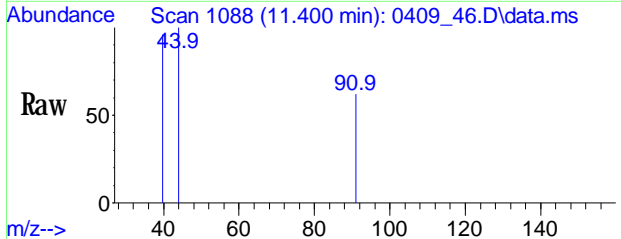
Quant Time: Apr 10 16:00:17 2019
Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_0409.M
Quant Title : VOA Standards for 5 point calibration
Last Update : Wed Apr 10 09:42:38 2019
Response via : Initial Calibration





#70
 Benzyl chloride
 Conc: 8S 0.555 ppbv
 RT: 11.400 min Scan# 1088
 Delta R.T. -0.069 min
 Lab File: 0409_46.D
 Acq: 10 Apr 2019 10:54 am

Tgt Ion	Ratio	Resp	Upper
91	100	81	
126	0.0	18.1	27.1#
65	0.0	9.7	14.5#



1
AIR ANALYSIS DATA SHEET

CLIENT ID

SS-10 DUP 75X

Client:	WALDENE	Lab:	Phoenix Env. Labs
SDG No.:	GCC90508	Lab Sample ID:	CC90523 DUP 75X
Canister:	23327	Lab File ID:	0409_56.D
Instrument:	CHEM20	Column:	RTX-1 60M
Purge Volume	200 (cc)	Date Received:	04/08/19
Matrix:	AIR	Date Analyzed:	04/10/19
		Dilution Factor:	75

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	43.6	U	43.6	43.6	r
75-71-8	Dichlorodifluoromethane	15.2	U	15.2	15.2	r
74-87-3	Chloromethane	36.3	U	36.3	36.3	r
106-99-0	1,3-Butadiene	33.9	U	33.9	33.9	r
75-00-3	Chloroethane	28.4	U	28.4	28.4	r
64-17-5	Ethanol	39.8	U	39.8	39.8	r
67-64-1	Acetone	91.1	S	31.6	31.6	r
67-63-0	Isopropylalcohol	30.5	U	30.5	30.5	r
107-13-1	Acrylonitrile	34.6	U	34.6	34.6	r
75-09-2	Methylene Chloride	64.8	U	64.8	64.8	r
75-15-0	Carbon Disulfide	24.1	U	24.1	24.1	r
1634-04-4	Methyl tert-butyl ether(MTBE)	20.8	U	20.8	20.8	r
78-93-3	Methyl Ethyl Ketone	25.4	U	25.4	25.4	r
110-54-3	Hexane	21.3	U	21.3	21.3	r
141-78-6	Ethyl acetate	20.8	U	20.8	20.8	r
109-99-9	Tetrahydrofuran	25.4	U	25.4	25.4	r
71-43-2	Benzene	23.5	U	23.5	23.5	r
110-82-7	Cyclohexane	21.8	U	21.8	21.8	r
142-82-5	Heptane	18.3	U	18.3	18.3	r
108-10-1	4-Methyl-2-pentanone(MIBK)	18.3	U	18.3	18.3	r
10061-02-6	trans-1,3-Dichloropropene	16.5	U	16.5	16.5	r
108-88-3	Toluene	19.9	U	19.9	19.9	r
591-78-6	2-Hexanone(MBK)	18.3	U	18.3	18.3	r
127-18-4	Tetrachloroethene	1030		2.77	2.77	r
630-20-6	1,1,1,2-Tetrachloroethane	10.9	U	10.9	10.9	r
108-90-7	Chlorobenzene	16.3	U	16.3	16.3	r
100-41-4	Ethylbenzene	17.3	U	17.3	17.3	r
100-42-5	Styrene	17.6	U	17.6	17.6	r
95-47-6	o-Xylene	17.3	U	17.3	17.3	r
98-82-8	Isopropylbenzene	15.3	U	15.3	15.3	r
622-96-8	4-Ethyltoluene	15.3	U	15.3	15.3	r
108-67-8	1,3,5-Trimethylbenzene	15.3	U	15.3	15.3	r
95-63-6	1,2,4-Trimethylbenzene	15.3	U	15.3	15.3	r
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	10.7	U	10.7	10.7	r
75-01-4	Vinyl Chloride(sim)	5.87	U	5.87	5.87	r
74-83-9	Bromomethane(sim)	19.3	U	19.3	19.3	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

SS-10 DUP 75X

Client:	<u>WALDENE</u>	Lab:	<u>Phoenix Env. Labs</u>
SDG No.:	<u>GCC90508</u>	Lab Sample ID:	<u>CC90523 DUP 75X</u>
Canister:	<u>23327</u>	Lab File ID:	<u>0409_56.D</u>
Instrument:	<u>CHEM20</u>	Column:	<u>RTX-1 60M</u>
		Date Received:	<u>04/08/19</u>
Purge Volume	<u>200</u> (cc)	Date Analyzed:	<u>04/10/19</u>
Matrix:	<u>AIR</u>	Dilution Factor:	<u>75</u>

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
75-69-4	Trichlorofluoromethane(sim)	13.4	U	13.4	13.4	r
107-06-2	1,2-Dichloroethane(sim)	18.5	U	18.5	18.5	r
71-55-6	1,1,1-Trichloroethane(sim)	13.8	U	13.8	13.8	r
56-23-5	Carbon Tetrachloride(sim)	2.39	U	2.39	2.39	r
75-35-4	1,1-Dichloroethene(sim)	3.79	U	3.79	3.79	r
76-13-1	Trichlorotrifluoroethane(sim)	9.79	U	9.79	9.79	r
156-60-5	Trans-1,2-Dichloroethene(sim)	18.9	U	18.9	18.9	r
75-34-3	1,1-Dichloroethane(sim)	18.5	U	18.5	18.5	r
156-59-2	Cis-1,2-Dichloroethene(sim)	3.79	U	3.79	3.79	r
67-66-3	Chloroform(sim)	15.4	U	15.4	15.4	r
78-87-5	1,2-dichloropropane(sim)	16.2	U	16.2	16.2	r
75-27-4	Bromodichloromethane(sim)	11.2	U	11.2	11.2	r
79-01-6	Trichloroethene(sim)	11.2		2.79	2.79	r
123-91-1	1,4-Dioxane(sim)	20.8	U	20.8	20.8	r
10061-01-5	cis-1,3-Dichloropropene(sim)	16.5	U	16.5	16.5	r
79-00-5	1,1,2-Trichloroethane(sim)	13.8	U	13.8	13.8	r
124-48-1	Dibromochloromethane(sim)	8.81	U	8.81	8.81	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	9.77	U	9.77	9.77	r
75-25-2	Bromoform(sim)	7.26	U	7.26	7.26	r
179601-23-1	m,p-Xylene(sim)	17.3	U	17.3	17.3	r
79-34-5	1,1,2,2-Tetrachloroethane(sim)	10.9	U	10.9	10.9	r
100-44-7	Benzyl chloride(sim)	14.5	U	14.5	14.5	r
541-73-1	1,3-Dichlorobenzene(sim)	12.5	U	12.5	12.5	r
106-46-7	1,4-Dichlorobenzene(sim)	12.5	U	12.5	12.5	r
135-98-8	sec-Butylbenzene(sim)	13.7	U	13.7	13.7	r
99-87-6	4-Isopropyltoluene(sim)	13.7	U	13.7	13.7	r
95-50-1	1,2-Dichlorobenzene(sim)	12.5	U	12.5	12.5	r
104-51-8	n-Butylbenzene(sim)	13.7	U	13.7	13.7	r
120-82-1	1,2,4-Trichlorobenzene(sim)	10.1	U	10.1	10.1	r
87-68-3	Hexachlorobutadiene(sim)	7.04	U	7.04	7.04	r

FORM I AIR

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

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2019\CHEM20\04APR\09\
 Data File : 0409_56.D
 Acq On : 10 Apr 2019 05:47 pm
 Operator : CORTEX\ms
 Client ID : SS-10 DUP 75X
 Lab ID : CC90523 DUP 75X
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 11 09:05:24 2019
 Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_0409.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Wed Apr 10 09:42:38 2019
 Response via : Initial Calibration

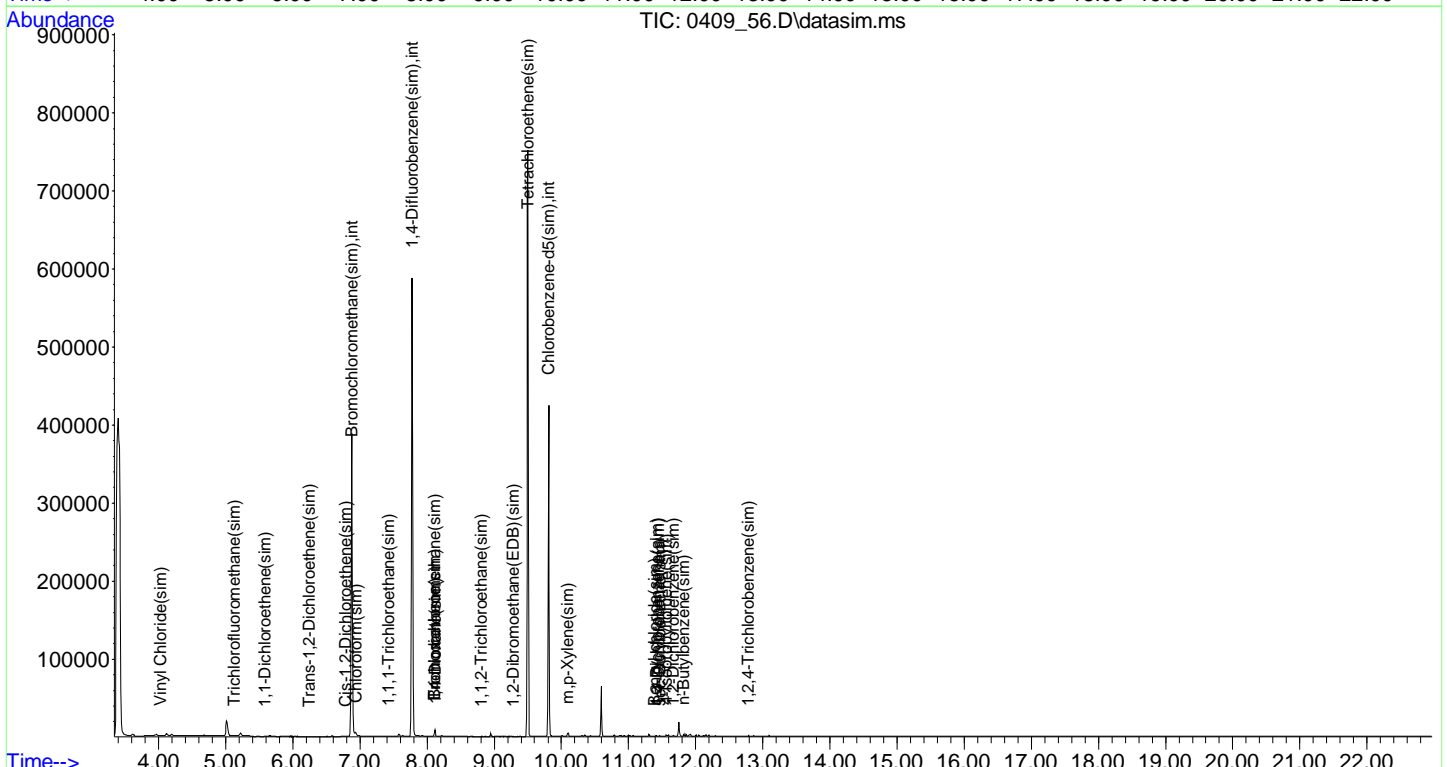
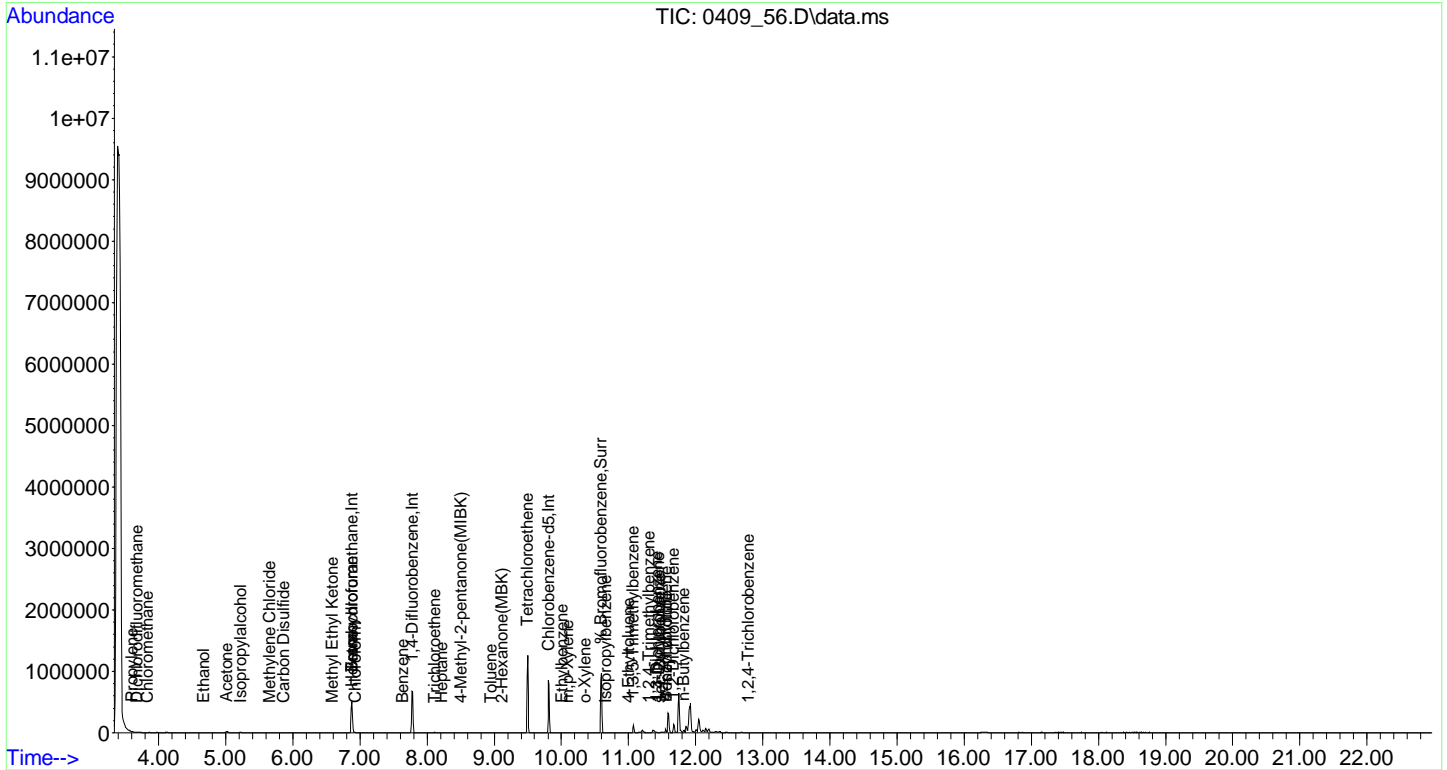
Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
Internal Standards						
1) Bromchloromethane	6.879	130	87632	10.000	ng	0.00
36) 1,4-Difluorobenzene	7.781	114	302941	10.000	ng	0.00
53) Chlorobenzene-d5	9.807	82	156938	10.000	ng	# 0.00
80) Bromchloromethane(sim)	6.882	130	122754	10.000	ng	# 0.00
94) 1,4-Difluorobenzene(sim)	7.775	114	352072	10.000	ng	0.00
104) Chlorobenzene-d5(sim)	9.810	82	159025	10.000	ng	# 0.00
System Monitoring Compounds						
62) % Bromfluorobenzene	10.596	95	208029	10.111	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	101.10%
Target Compounds						
12) Acetone	5.017	43	23796	1.215	ppbv#	80
39) Trichloroethene	8.111	130	1889	0.166	ppbv	92
52) Tetrachloroethene	9.498	166	165502	13.758	ppbv#	85
70) Benzyl chloride	11.567	91	152	0.558	ppbv#	34
97) Trichloroethene(sim)	8.111	130	1889	0.149	ppbv	97
103) Tetrachloroethene(sim)	9.498	166	165502	11.968	ppbv#	85

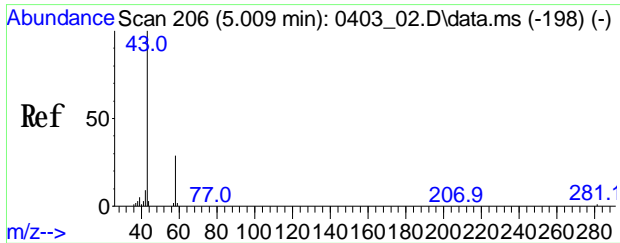
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Quantitation Report (QT Reviewed)

Data Path : H:\AIR2019\CHEM20\04APR\09\
 Data File : 0409_56.D
 Acq On : 10 Apr 2019 05:47 pm
 Operator : CORTEX\ns
 Client ID : SS-10 DUP 75X
 Lab ID : CC90523 DUP 75X
 ALS Vial : 1 Sample Multiplier: 1

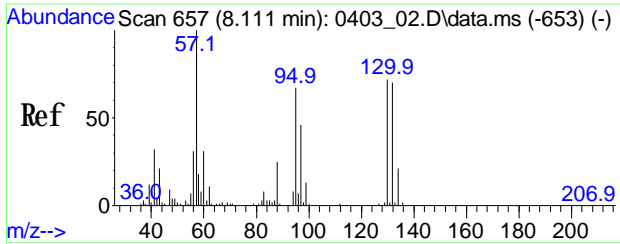
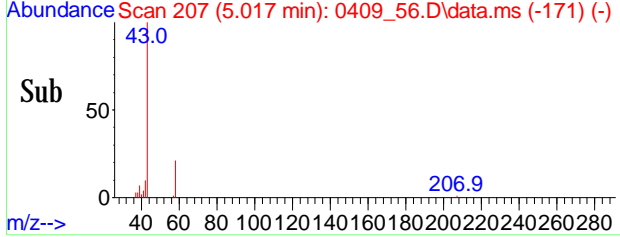
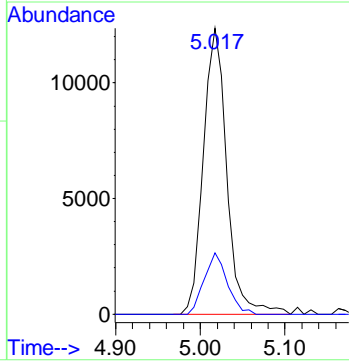
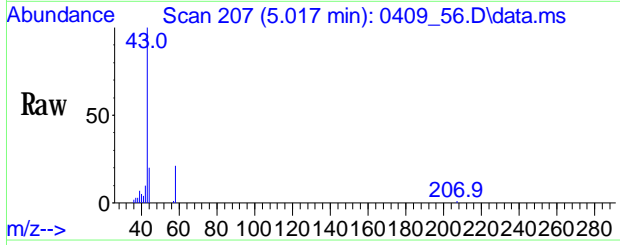
Quant Time: Apr 11 09:05:24 2019
 Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_0409.M
 Quant Title : VOA Standards for 5 point calibration
 Last Update : Wed Apr 10 09:42:38 2019
 Response via : Initial Calibration





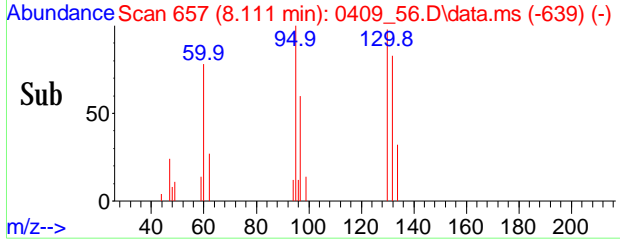
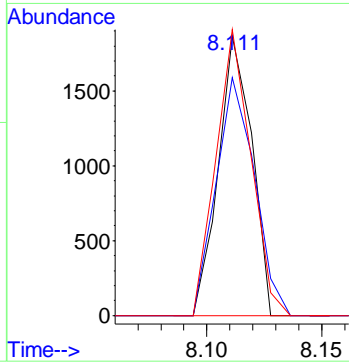
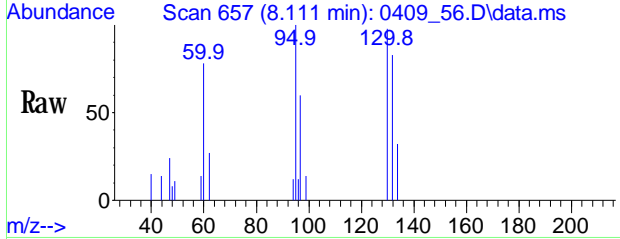
#12
 Acetone
 Conc: 8S 1.215 ppby
 RT: 5.017 min Scan# 207
 Delta R.T. -0.008 min
 Lab File: 0409_56.D
 Acq: 10 Apr 2019 05:47 pm

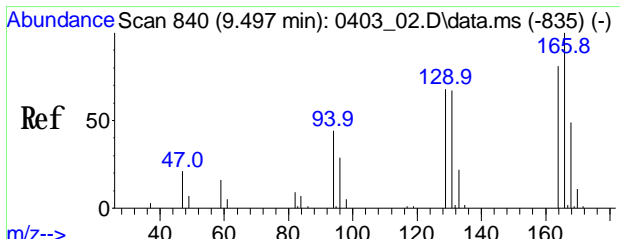
Tgt Ion	Ratio	Resp	Lower	Upper
43	100	23796		
58	21.0	25.9		38.9#



#39
 Trichloroethene
 Conc: 8S 0.166 ppby
 RT: 8.111 min Scan# 657
 Delta R.T. -0.000 min
 Lab File: 0409_56.D
 Acq: 10 Apr 2019 05:47 pm

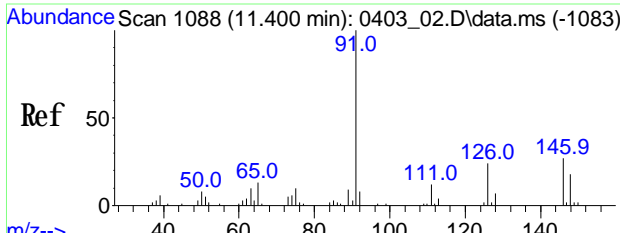
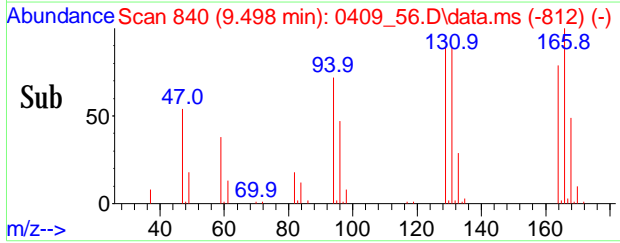
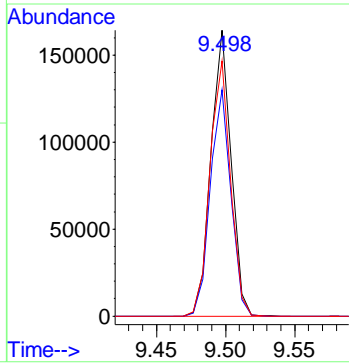
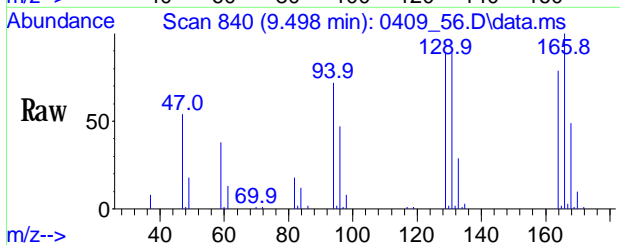
Tgt Ion	Ratio	Resp	Lower	Upper
130	100	1889		
132	98.0	78.0		117.0
95	107.0	73.0		109.4





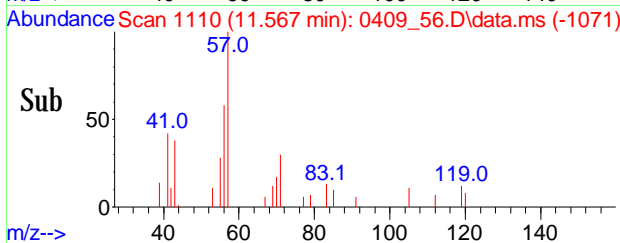
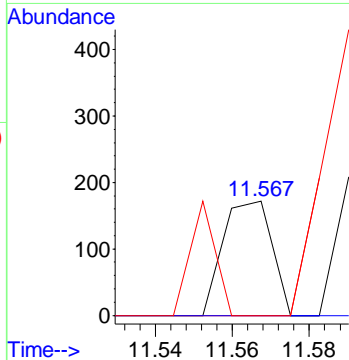
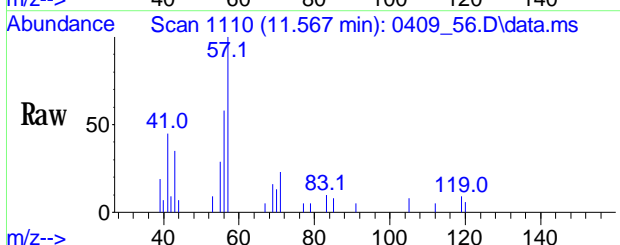
#52
Tetrachloroethene
 Conc: 8S 13.758 ppby
 RT: 9.498 min Scan# 840
 Delta R.T. 0.001 min
 Lab File: 0409_56.D
 Acq: 10 Apr 2019 05:47 pm

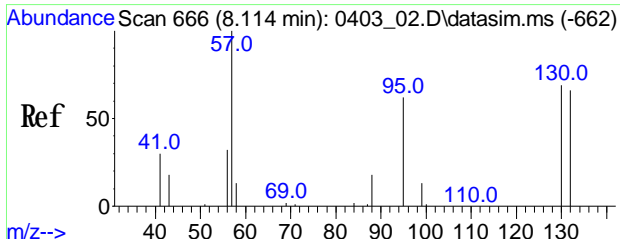
Tgt Ion	Ratio	Resp	Upper
166	100	165502	
164	80.6	62.2	93.2
129	91.0	54.9	82.3#



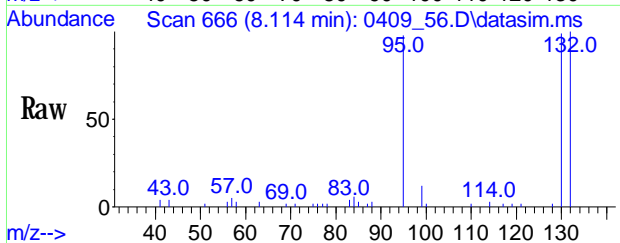
#70
Benzyl chloride
 Conc: 8S 0.558 ppby
 RT: 11.567 min Scan# 1110
 Delta R.T. 0.098 min
 Lab File: 0409_56.D
 Acq: 10 Apr 2019 05:47 pm

Tgt Ion	Ratio	Resp	Upper
91	100	152	
126	0.0	18.1	27.1#
65	51.3	9.7	14.5#

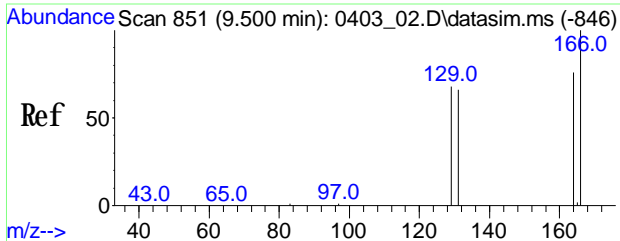
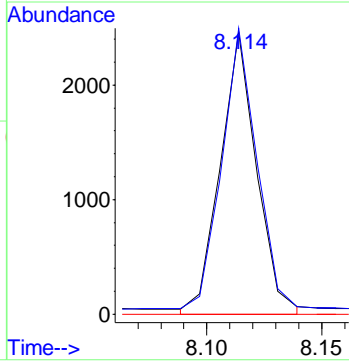
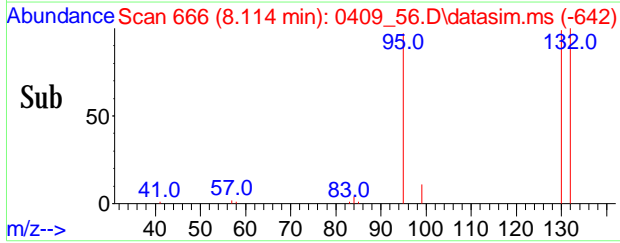




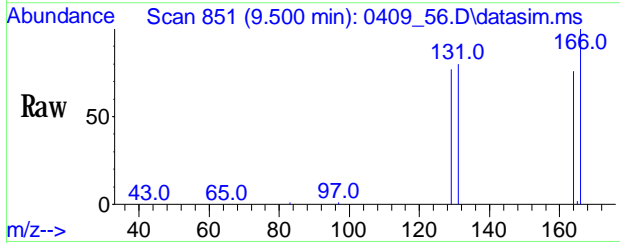
#97
 Trichloroethene(sim)
 Conc: 8S 0.149 ppbv
 RT: 8.111 min Scan# 666
 Delta R.T. -0.000 min
 Lab File: 0409_56.D
 Acq: 10 Apr 2019 05:47 pm



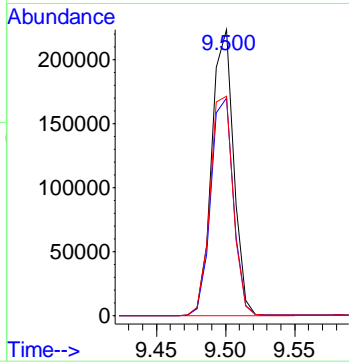
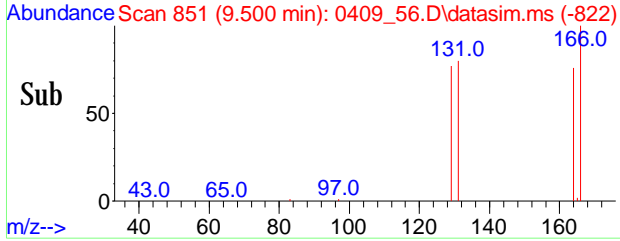
Tgt Ion: 130 Resp: 1889
 Ion Ratio Lower Upper
 130 100
 132 98.0 78.0 117.0
 97 64.3 47.2 70.8



#103
 Tetrachloroethene(sim)
 Conc: 8S 11.968 ppbv
 RT: 9.498 min Scan# 851
 Delta R.T. 0.001 min
 Lab File: 0409_56.D
 Acq: 10 Apr 2019 05:47 pm



Tgt Ion: 166 Resp: 165502
 Ion Ratio Lower Upper
 166 100
 164 80.6 57.7 97.7
 129 91.0 48.6 88.6#



1
AIR ANALYSIS DATA SHEET

CLIENT ID

CANISTER BLK 1405

Client: WALDENE Lab: Phoenix Env. Labs

SDG No.: GCC90508 Lab Sample ID: CANISTER BLK 1405

Canister: CANBL Lab File ID: 0107_20.D

Instrument: CHEM24 Column: _____ Date Received: _____

Purge Volume 200 (cc) Date Analyzed: 01/08/19

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
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	0.864	U	0.864	0.864	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)	0.078	U	0.078	0.078	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

CANISTER BLK 1405

Client:	WALDENE	Lab:	Phoenix Env. Labs
SDG No.:	GCC90508	Lab Sample ID:	CANISTER BLK 1405
Canister:	CANBL	Lab File ID:	0107_20.D
Instrument:	CHEM24	Column:	_____
Purge Volume	200	(cc)	Date Received: _____
Matrix:	AIR	Dilution Factor:	1
		Date Analyzed:	01/08/19

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
71-55-6	1,1,1-Trichloroethane(sim)	0.183	U	0.183	0.183	r
56-23-5	Carbon Tetrachloride(sim)	0.032	U	0.032	0.032	r
75-35-4	1,1-Dichloroethene(sim)	0.051	U	0.051	0.051	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)	0.051	U	0.051	0.051	r
107-06-2	1,2-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
79-01-6	Trichloroethene(sim)	0.037	U	0.037	0.037	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)	0.135	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

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2019\CHEM24\01JAN\07\
 Data File : 0107_20.D
 Acq On : 8 Jan 2019 10:33 am
 Operator : Keith
 Client ID : CANISTER BLK 1405
 Lab ID : CANISTER BLK 1405
 ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jan 08 12:09:26 2019
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR_1220.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Thu Dec 20 23:30:36 2018
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
Internal Standards						
1) Bromchloromethane	5.637	130	350671	10.000	ng	-0.04
36) 1,4-Difluorobenzene	7.549	114	954864	10.000	ng	-0.02
53) Chlorobenzene-d5	11.099	82	441550	10.000	ng	-0.01
80) Bromchloromethane(sim)	5.637	130	350671	10.000	ng	-0.04
93) 1,4-Difluorobenzene(sim)	7.545	114	1030170	10.000	ng	#-0.03
103) Chlorobenzene-d5(sim)	11.095	82	485453	10.000	ng	#-0.01
System Monitoring Compounds						
62) % Bromfluorobenzene	12.570	95	619435	9.254	ppbv	-0.01
Spiked Amount	10.000	Range	70 - 130	Recovery	=	92.50%

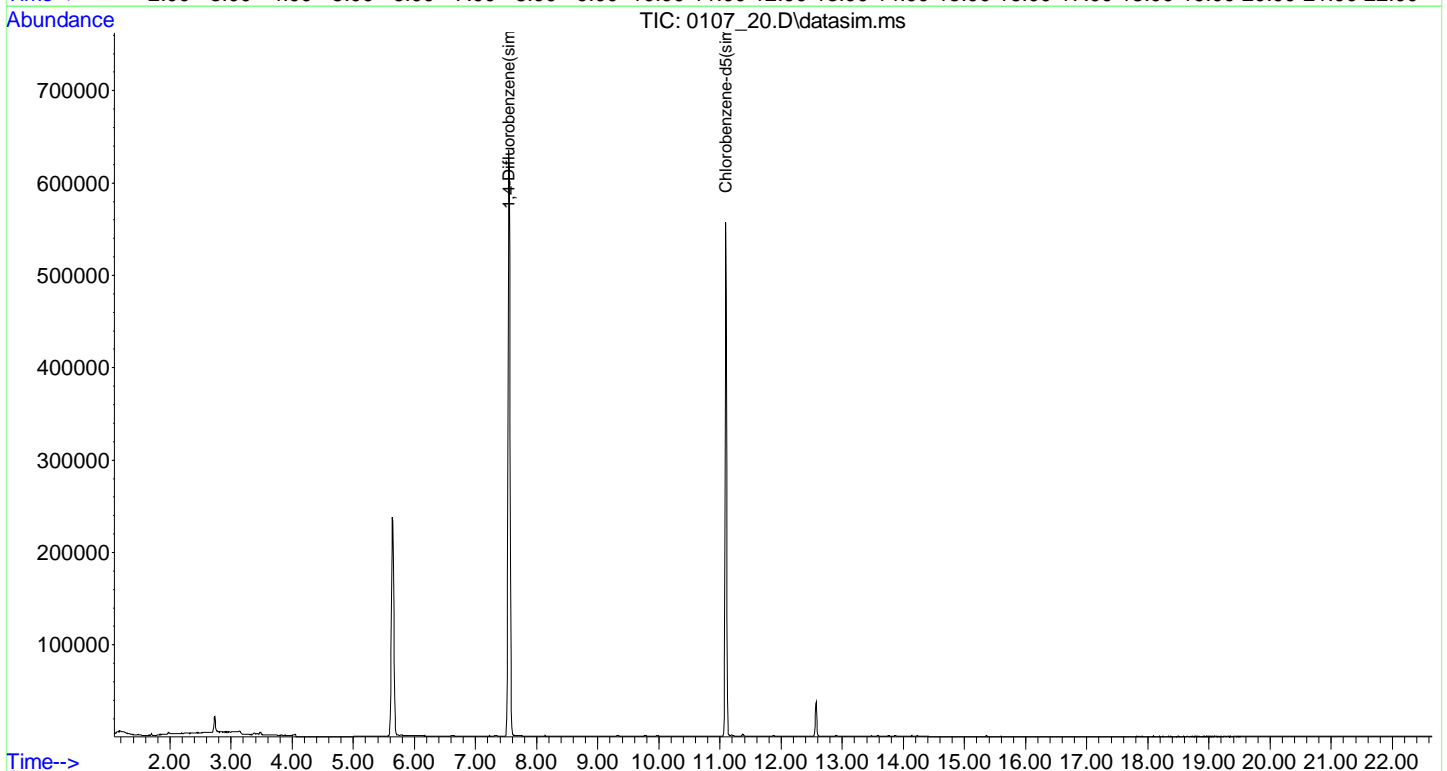
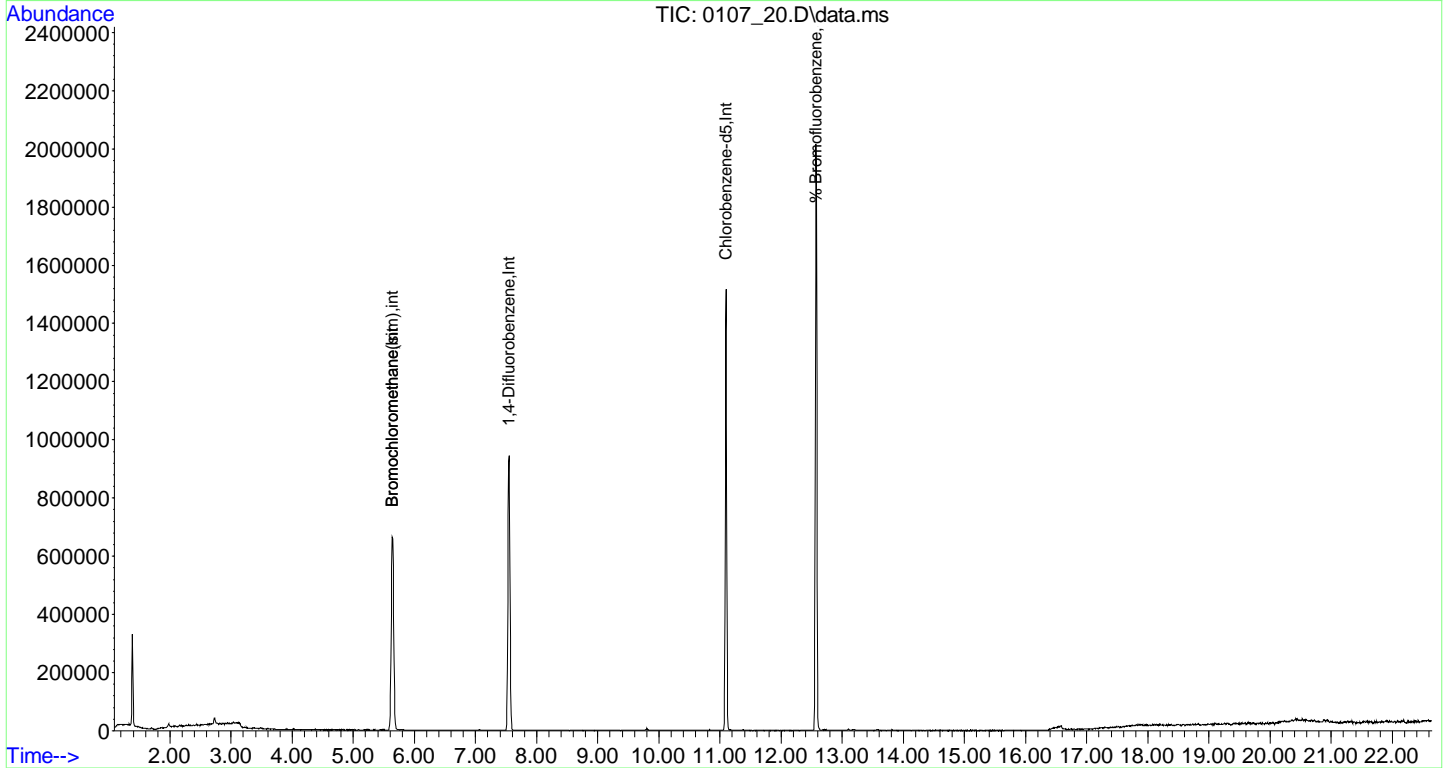
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2019\CHEM24\01JAN\07\
Data File : 0107_20.D
Acq On : 8 Jan 2019 10:33 am
Operator : Keith
Client ID : CANISTER BLK 1405
Lab ID : CANISTER BLK 1405
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jan 08 12:09:26 2019
Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR_1220.M
Quant Title : VOA Standards for 5 point calibration
Last Update : Thu Dec 20 23:30:36 2018
Response via : Initial Calibration



Canister Cleaning Certification

Batch Id:	1405	Certified:	<input checked="" type="checkbox"/>
QC Canister Id:	801	Certified Date:	1/8/2019 10:33:00 AM
Canister Ids:	11291, 13644, 173, 19635, 19786, 19859, 21345, 225, 23345, 28565, 801, 9767	Certified By:	KCA
		Certified Computer:	AIRLAB
		Sample Id:	blk 1405

Comment: Initial vacuum of all canisters in this batch is -30 psig.

Data File: H:\AIR2019\CHEM24\01JAN\07\0107_20.D\0107_20-24AIR_1220.rr

Analyte	Result (ppbv)	Analyte	Result (ppbv)
% Bromofluorobenzene	9.2542	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-Dichloroethane(sim)	0	1,1-Dichloroethene	0
1,1-Dichloroethene(sim)	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-Dichloroethane(sim)	0
1,2-dichloropropane	0	1,2-dichloropropane(sim)	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	10	1,4-Difluorobenzene(sim)	10
1,4-Dioxane	0	1,4-Dioxane(sim)	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	10
Bromochloromethane(sim)	10	Bromodichloromethane	0
Bromodichloromethane(sim)	0	Bromoform	0
Bromoform(sim)	0	Bromomethane	0
Bromomethane(sim)	0	Carbon Disulfide	0
Carbon Tetrachloride	0	Carbon Tetrachloride(sim)	0
Chlorobenzene	0	Chlorobenzene-d5	10
Chlorobenzene-d5(sim)	10	Chloroethane	0
Chloroform	0	Chloromethane	0
Cis-1,2-Dichloroethene	0	Cis-1,2-Dichloroethene(sim)	0
cis-1,3-Dichloropropene	0	cis-1,3-Dichloropropene(sim)	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

Canister Cleaning Certification

Batch Id: 1405
 QC Canister Id: 801
 Canister Ids: 11291, 13644, 173, 19635, 19786, 19859, 21345, 225, 23345, 28565, 801, 9767

Certified:
 Certified Date: 1/8/2019 10:33:00 AM
 Certified By: KCA
 Certified Computer: AIRLAB
 Sample Id: blk 1405

Comment: Initial vacuum of all canisters in this batch is -30 psig.
 Data File: H:\AIR2019\CHEM24\01JAN\07\0107_20.D\0107_20-24AIR_1220.rr

Analyte	Result (ppbv)	Analyte	Result (ppbv)
n-Propylbenzene(sim)	0	Naphthalene	0
o-Xylene	0	Propylene	0
sec-Butylbenzene	0	sec-Butylbenzene(sim)	0
Styrene	0	tert-butyl alcohol	0
tert-butylbenzene	0	tert-butylbenzene(sim)	0
Tetrachloroethene	0	Tetrachloroethene(sim)	0
Tetrahydrofuran	0	Toluene	0
Trans-1,2-Dichloroethene	0	Trans-1,2-Dichloroethene(sim)	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

1
AIR ANALYSIS DATA SHEET

CLIENT ID

CANISTER BLK 1417

Client: WALDENE Lab: Phoenix Env. Labs

SDG No.: GCC90508 Lab Sample ID: CANISTER BLK 1417

Canister: CANBL Lab File ID: 0125_09.D

Instrument: CHEM20 Column: _____ Date Received: _____

Purge Volume 200 (cc) Date Analyzed: 01/25/19

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
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	0.864	U	0.864	0.864	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
630-20-6	1,1,1,2-Tetrachloroethane	0.146	U	0.146	0.146	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)	0.078	U	0.078	0.078	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

CANISTER BLK 1417

Client: WALDENE Lab: Phoenix Env. Labs

SDG No.: GCC90508 Lab Sample ID: CANISTER BLK 1417

Canister: CANBL Lab File ID: 0125_09.D

Instrument: CHEM20 Column: _____ Date Received: _____

Purge Volume 200 (cc) Date Analyzed: 01/25/19

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	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)	0.032	U	0.032	0.032	r
75-35-4	1,1-Dichloroethene(sim)	0.051	U	0.051	0.051	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)	0.051	U	0.051	0.051	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)	0.037	U	0.037	0.037	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
179601-23-1	m,p-Xylene(sim)	0.230	U	0.230	0.230	r
79-34-5	1,1,1,2-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

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2019\CHEM20\01JAN\25\
 Data File : 0125_09.D
 Acq On : 25 Jan 2019 11:12 pm
 Operator : CORTEX\ms
 Client ID : CANISTER BLK 1417
 Lab ID : CANISTER BLK 1417
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 27 22:42:26 2019
 Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_0117.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Thu Jan 17 13:49:54 2019
 Response via : Initial Calibration

Compound	R.T.	QI	Ion	Response	Conc	Units	Dev(Mn)
Internal Standards							
1) Bromchloromethane	6.871	130		254300	10.000	ng	0.00
36) 1,4-Difluorobenzene	7.781	114		677151	10.000	ng	0.00
53) Chlorobenzene-d5	9.816	82		279098	10.000	ng	0.00
80) Bromchloromethane(sim)	6.874	130		328492	10.000	ng	# 0.00
93) 1,4-Difluorobenzene(sim)	7.781	114		677151	10.000	ng	0.00
103) Chlorobenzene-d5(sim)	9.816	82		279098	10.000	ng	0.00
System Monitoring Compounds							
62) % Bromfluorobenzene	10.597	95		378740	9.991	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	99.90%	

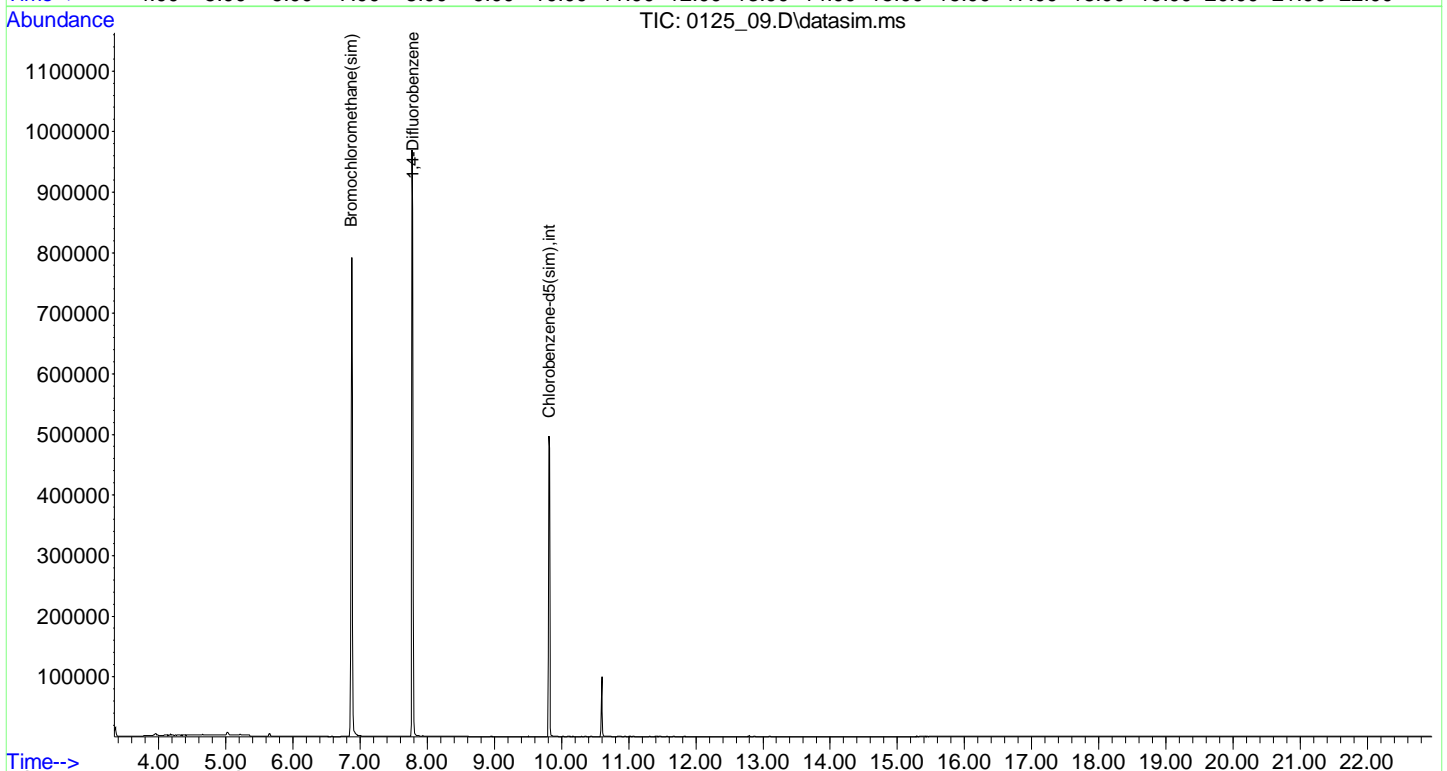
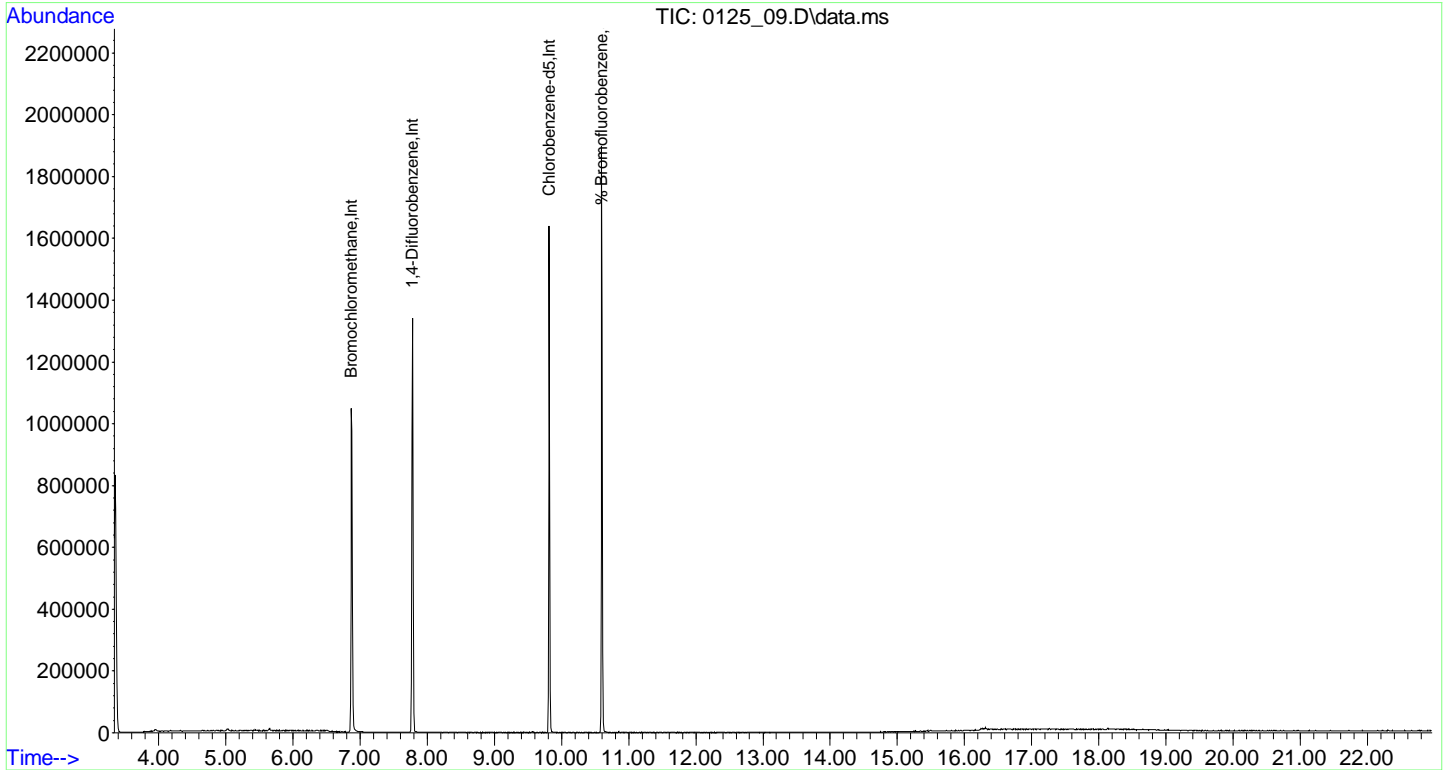
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2019\CHEM20\01JAN\25\
Data File : 0125_09.D
Acq On : 25 Jan 2019 11:12 pm
Operator : CORTEX\ns
Client ID : CANISTER BLK 1417
Lab ID : CANISTER BLK 1417
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 27 22:42:26 2019
Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_0117.M
Quant Title : VOA Standards for 5 point calibration
Last Update : Thu Jan 17 13:49:54 2019
Response via : Initial Calibration



Canister Cleaning Certification

Batch Id:	1417	Certified:	<input checked="" type="checkbox"/>
QC Canister Id:	804	Certified Date:	1/25/2019 11:12:00 PM
Canister Ids:	11292, 12855, 12867, 19916, 19932, 219, 230, 23326, 23352, 28560, 28587, 804	Certified By:	KCA
		Certified Computer:	AIRLAB
		Sample Id:	blk 1417

Comment: Initial vacuum of all canisters in this batch is -30 psig.

Data File: H:\AIR2019\CHEM20\01JAN\25\0125_09.D\0125_09-20_AIR_0117.rr

Analyte	Result (ppbv)	Analyte	Result (ppbv)
% Bromofluorobenzene	9.9909	1,1,1,2-Tetrachloroethane	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-Dichloroethane(sim)	0
1,1-Dichloroethene	0	1,1-Dichloroethene(sim)	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-Dichloroethane(sim)	0	1,2-dichloropropane	0
1,2-dichloropropane(sim)	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	10
1,4-Difluorobenzene(sim)	10	1,4-Dioxane	0
1,4-Dioxane(sim)	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	10	Bromochloromethane(sim)	10
Bromodichloromethane	0	Bromodichloromethane(sim)	0
Bromoform	0	Bromoform(sim)	0
Bromomethane	0	Bromomethane(sim)	0
Carbon Disulfide	0	Carbon Tetrachloride	0
Carbon Tetrachloride(sim)	0	Chlorobenzene	0
Chlorobenzene-d5	10	Chlorobenzene-d5(sim)	10
Chloroethane	0	Chloroform	0
Chloromethane	0	Cis-1,2-Dichloroethene	0
Cis-1,2-Dichloroethene(sim)	0	cis-1,3-Dichloropropene	0
cis-1,3-Dichloropropene(sim)	0	Cyclohexane	0
Dibromochloromethane	0	Dibromochloromethane(sim)	0
Dichlorodifluoromethane	0	Ethanol	0
Ethyl acetate	0	Ethylbenzene	0
Heptane	0	Hexachlorobutadiene	0
Hexachlorobutadiene(sim)	0.0135	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

Canister Cleaning Certification

Batch Id: 1417
 QC Canister Id: 804
 Canister Ids: 11292, 12855, 12867, 19916, 19932, 219, 230, 23326, 23352, 28560, 28587, 804

Certified:
 Certified Date: 1/25/2019 11:12:00 PM
 Certified By: KCA
 Certified Computer: AIRLAB
 Sample Id: blk 1417

Comment: Initial vacuum of all canisters in this batch is -30 psig.
 Data File: H:\AIR2019\CHEM20\01JAN\25\0125_09.D\0125_09-20_AIR_0117.rr

Analyte	Result (ppbv)	Analyte	Result (ppbv)
Naphthalene	0	Naphthalene(sim)	0
o-Xylene	0	Propylene	0
sec-Butylbenzene	0	sec-Butylbenzene(sim)	0
Styrene	0	tert-butyl alcohol	0
tert-butylbenzene	0	tert-butylbenzene(sim)	0
Tetrachloroethene	0	Tetrachloroethene(sim)	0
Tetrahydrofuran	0	Toluene	0
Trans-1,2-Dichloroethene	0	Trans-1,2-Dichloroethene(sim)	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

1
AIR ANALYSIS DATA SHEET

CLIENT ID

CANISTER BLK 1423

Client:	<u>WALDENE</u>	Lab:	<u>Phoenix Env. Labs</u>
SDG No.:	<u>GCC90508</u>	Lab Sample ID:	<u>CANISTER BLK 1423</u>
Canister:	<u>CANBL</u>	Lab File ID:	<u>0131_31.D</u>
Instrument:	<u>CHEM20</u> Column: _____	Date Received:	_____
Purge Volume	<u>200</u> (cc)	Date Analyzed:	<u>02/01/19</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	0.864	U	0.864	0.864	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
630-20-6	1,1,1,2-Tetrachloroethane	0.146	U	0.146	0.146	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)	0.078	U	0.078	0.078	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

CANISTER BLK 1423

Client: WALDENE Lab: Phoenix Env. Labs

SDG No.: GCC90508 Lab Sample ID: CANISTER BLK 1423

Canister: CANBL Lab File ID: 0131_31.D

Instrument: CHEM20 Column: _____ Date Received: _____

Purge Volume 200 (cc) Date Analyzed: 02/01/19

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	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)	0.032	U	0.032	0.032	r
75-35-4	1,1-Dichloroethene(sim)	0.051	U	0.051	0.051	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)	0.051	U	0.051	0.051	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)	0.037	U	0.037	0.037	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
179601-23-1	m,p-Xylene(sim)	0.230	U	0.230	0.230	r
79-34-5	1,1,1,2-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

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2019\CHEM20\01JAN\31\
 Data File : 0131_31.D
 Acq On : 01 Feb 2019 12:31 pm
 Operator : CORTEX\ms
 Client ID : CANISTER BLK 1423
 Lab ID : CANISTER BLK 1423
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 01 15:19:32 2019
 Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_0130.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Thu Jan 31 13:55:06 2019
 Response via : Initial Calibration

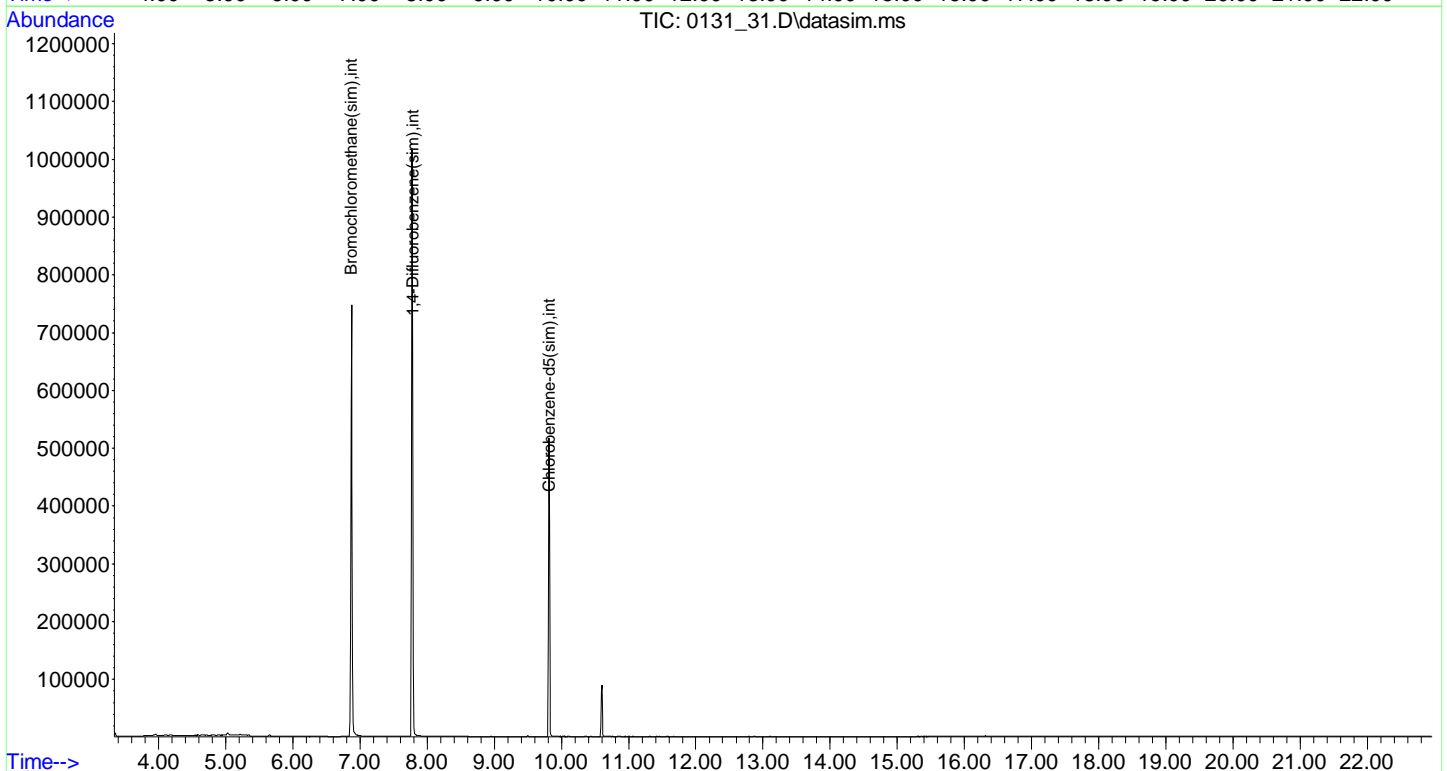
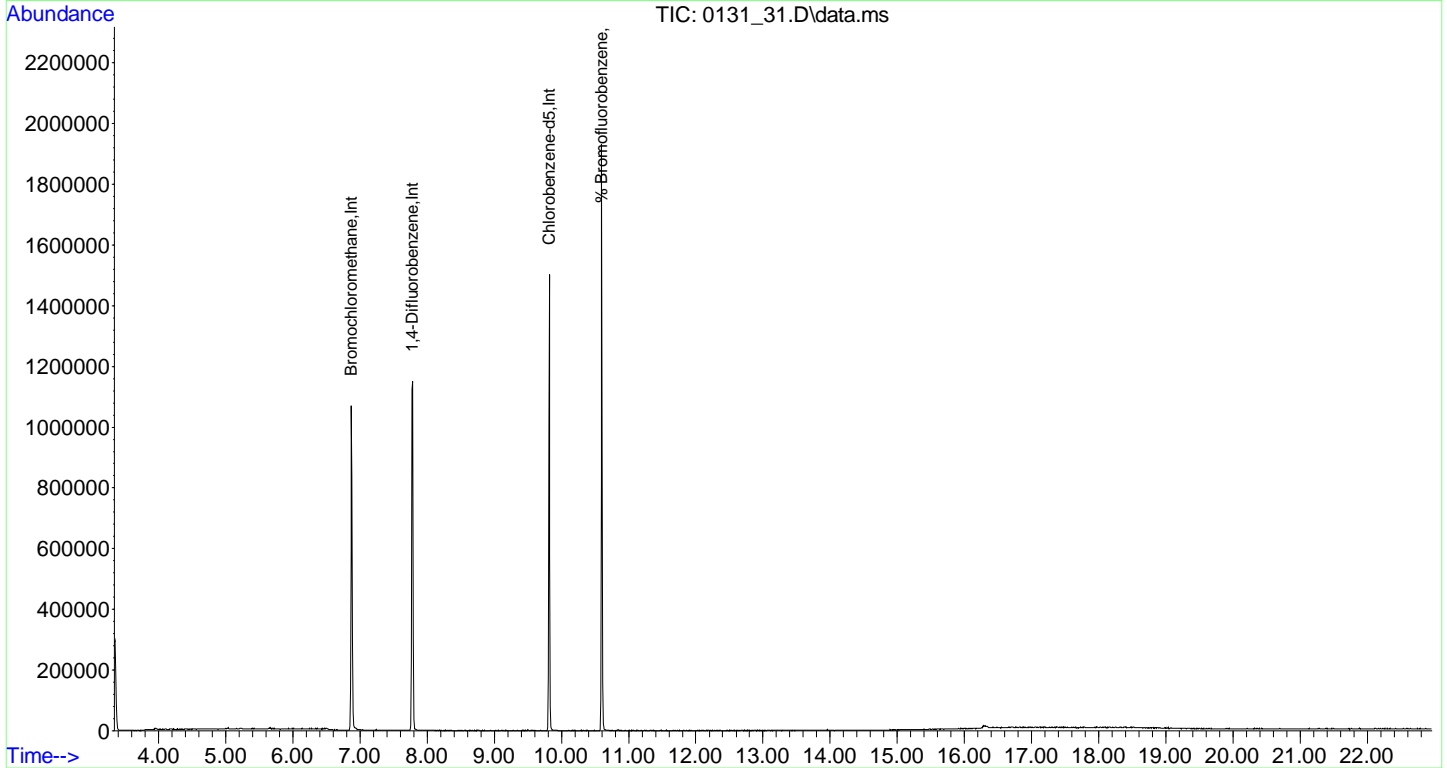
Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
Internal Standards						
1) Bromchloromethane	6.872	130	257388	10.000	ng	0.00
36) 1,4-Difluorobenzene	7.782	114	631377	10.000	ng	0.00
53) Chlorobenzene-d5	9.817	82	256556	10.000	ng	0.00
80) Bromchloromethane(sim)	6.875	130	329081	10.000	ng	# 0.00
93) 1,4-Difluorobenzene(sim)	7.782	114	631377	10.000	ng	0.00
103) Chlorobenzene-d5(sim)	9.817	82	256556	10.000	ng	0.00
System Monitoring Compounds						
62) % Bromfluorobenzene	10.598	95	352914	10.119	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	101.20%
Target Compounds						
52) Tetrachloroethene	9.500	166	563	0.023	ppbv	Qvalue 92
102] Tetrachloroethene(sim)	9.503	166	750	0.026	ppbv	99

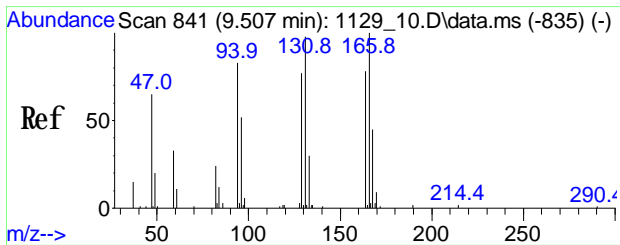
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2019\CHEM20\01JAN\31\
Data File : 0131_31.D
Acq On : 01 Feb 2019 12:31 pm
Operator : CORTEX\ns
Client ID : CANISTER BLK 1423
Lab ID : CANISTER BLK 1423
ALS Vial : 1 Sample Multiplier: 1

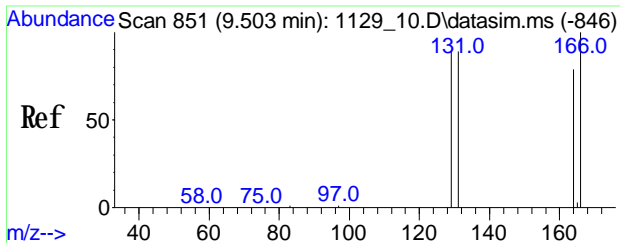
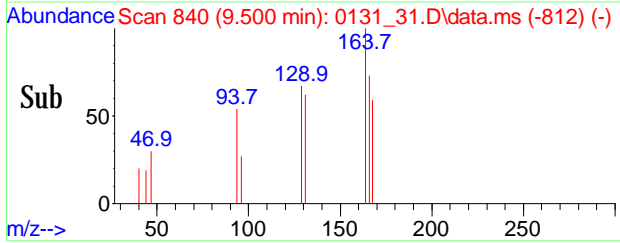
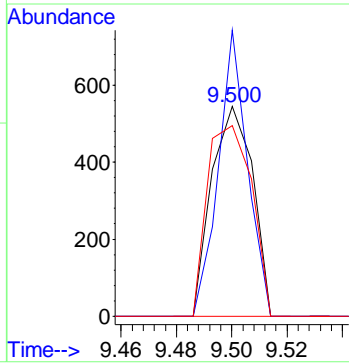
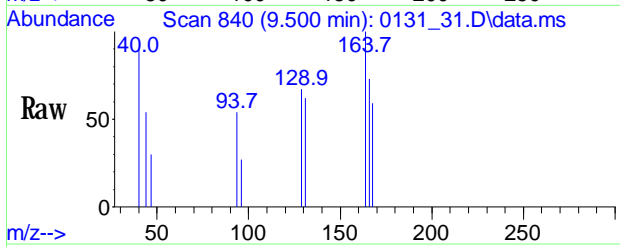
Quant Time: Feb 01 15:19:32 2019
Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_0130.M
Quant Title : VOA Standards for 5 point calibration
Last Update : Thu Jan 31 13:55:06 2019
Response via : Initial Calibration





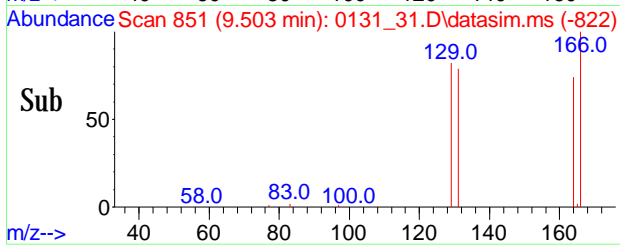
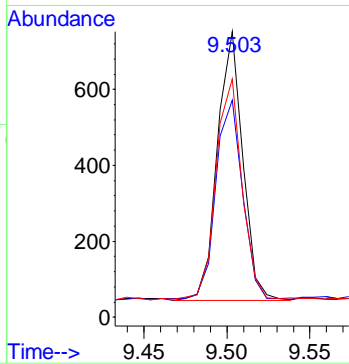
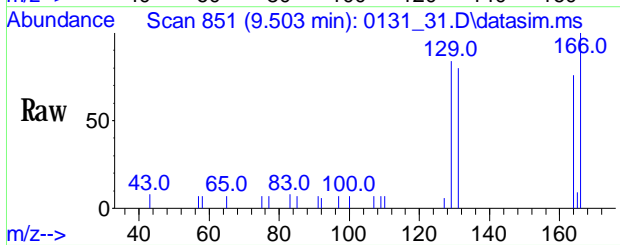
#52
 Tetrachloroethene
 Conc: 8S Below Cal
 RT: 9.500 min Scan# 840
 Delta R.T. -0.006 min
 Lab File: 0131_31.D
 Acq: 01 Feb 2019 12:31 pm

Tgt Ion	Ratio	Resp	Upper
166	100	563	
164	96.3	72.2	108.4
129	98.8	87.3	130.9



#102
 Tetrachloroethene(sim)
 Conc: 8S Below Cal
 RT: 9.503 min Scan# 851
 Delta R.T. 0.001 min
 Lab File: 0131_31.D
 Acq: 01 Feb 2019 12:31 pm

Tgt Ion	Ratio	Resp	Upper
166	100	750	
164	77.2	56.7	96.7
129	84.1	65.7	105.7



Canister Cleaning Certification

Batch Id:	1423	Certified:	<input checked="" type="checkbox"/>
QC Canister Id:	814	Certified Date:	2/1/2019 12:31:00 PM
Canister Ids:	21365, 23324, 23329, 28550, 28562, 28581, 28600, 28609, 28623, 352, 355, 814	Certified By:	KCA
		Certified Computer:	AIRLAB
		Sample Id:	blk 1423

Comment: Initial vacuum of all canisters in this batch is -30 psig.

Data File: H:\AIR2019\CHEM20\01JAN\31\0131_31.D\0131_31-20_AIR_0130.rr

Analyte	Result (ppbv)	Analyte	Result (ppbv)
% Bromofluorobenzene	10.119	1,1,1,2-Tetrachloroethane	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-Dichloroethane(sim)	0
1,1-Dichloroethene	0	1,1-Dichloroethene(sim)	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-Dichloroethane(sim)	0	1,2-dichloropropane	0
1,2-dichloropropane(sim)	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	10
1,4-Difluorobenzene(sim)	10	1,4-Dioxane	0
1,4-Dioxane(sim)	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	10	Bromochloromethane(sim)	10
Bromodichloromethane	0	Bromodichloromethane(sim)	0
Bromoform	0	Bromoform(sim)	0
Bromomethane	0	Bromomethane(sim)	0
Carbon Disulfide	0	Carbon Tetrachloride	0
Carbon Tetrachloride(sim)	0	Chlorobenzene	0
Chlorobenzene-d5	10	Chlorobenzene-d5(sim)	10
Chloroethane	0	Chloroform	0
Chloromethane	0	Cis-1,2-Dichloroethene	0
Cis-1,2-Dichloroethene(sim)	0	cis-1,3-Dichloropropene	0
cis-1,3-Dichloropropene(sim)	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

Canister Cleaning Certification

Batch Id: 1423
 QC Canister Id: 814
 Canister Ids: 21365, 23324, 23329, 28550, 28562, 28581, 28600, 28609, 28623, 352, 355, 814

Certified:
 Certified Date: 2/1/2019 12:31:00 PM
 Certified By: KCA
 Certified Computer: AIRLAB
 Sample Id: blk 1423

Comment: Initial vacuum of all canisters in this batch is -30 psig.
 Data File: H:\AIR2019\CHEM20\01JAN\31\0131_31.D\0131_31-20_AIR_0130.rr

Analyte	Result (ppbv)	Analyte	Result (ppbv)
Naphthalene	0	Naphthalene(sim)	0
o-Xylene	0	Propylene	0
sec-Butylbenzene	0	sec-Butylbenzene(sim)	0
Styrene	0	tert-butyl alcohol	0
tert-butylbenzene	0	tert-butylbenzene(sim)	0
Tetrachloroethene	0	Tetrachloroethene(sim)	0
Tetrahydrofuran	0	Toluene	0
Trans-1,2-Dichloroethene	0	Trans-1,2-Dichloroethene(sim)	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

1
AIR ANALYSIS DATA SHEET

CLIENT ID

CANISTER BLK 1429

Client: WALDENE Lab: Phoenix Env. Labs

SDG No.: GCC90508 Lab Sample ID: CANISTER BLK 1429

Canister: CANBL Lab File ID: 0205_21.D

Instrument: CHEM24 Column: _____ Date Received: _____

Purge Volume 200 (cc) Date Analyzed: 02/06/19

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
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	0.864	U	0.864	0.864	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)	0.078	U	0.078	0.078	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

CANISTER BLK 1429

Client: WALDENE Lab: Phoenix Env. Labs

SDG No.: GCC90508 Lab Sample ID: CANISTER BLK 1429

Canister: CANBL Lab File ID: 0205_21.D

Instrument: CHEM24 Column: _____ Date Received: _____

Purge Volume 200 (cc) Date Analyzed: 02/06/19

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
71-55-6	1,1,1-Trichloroethane(sim)	0.183	U	0.183	0.183	r
56-23-5	Carbon Tetrachloride(sim)	0.032	U	0.032	0.032	r
75-35-4	1,1-Dichloroethene(sim)	0.051	U	0.051	0.051	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)	0.051	U	0.051	0.051	r
107-06-2	1,2-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
79-01-6	Trichloroethene(sim)	0.037	U	0.037	0.037	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)	0.135	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

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2019\CHEM24\02FEB\05\
 Data File : 0205_21.D
 Acq On : 6 Feb 2019 5:11 am
 Operator : Keith
 Client ID : CANISTER BLK 1429
 Lab ID : CANISTER BLK 1429
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Feb 06 10:35:34 2019
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR_0205.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Wed Feb 06 09:31:49 2019
 Response via : Initial Calibration

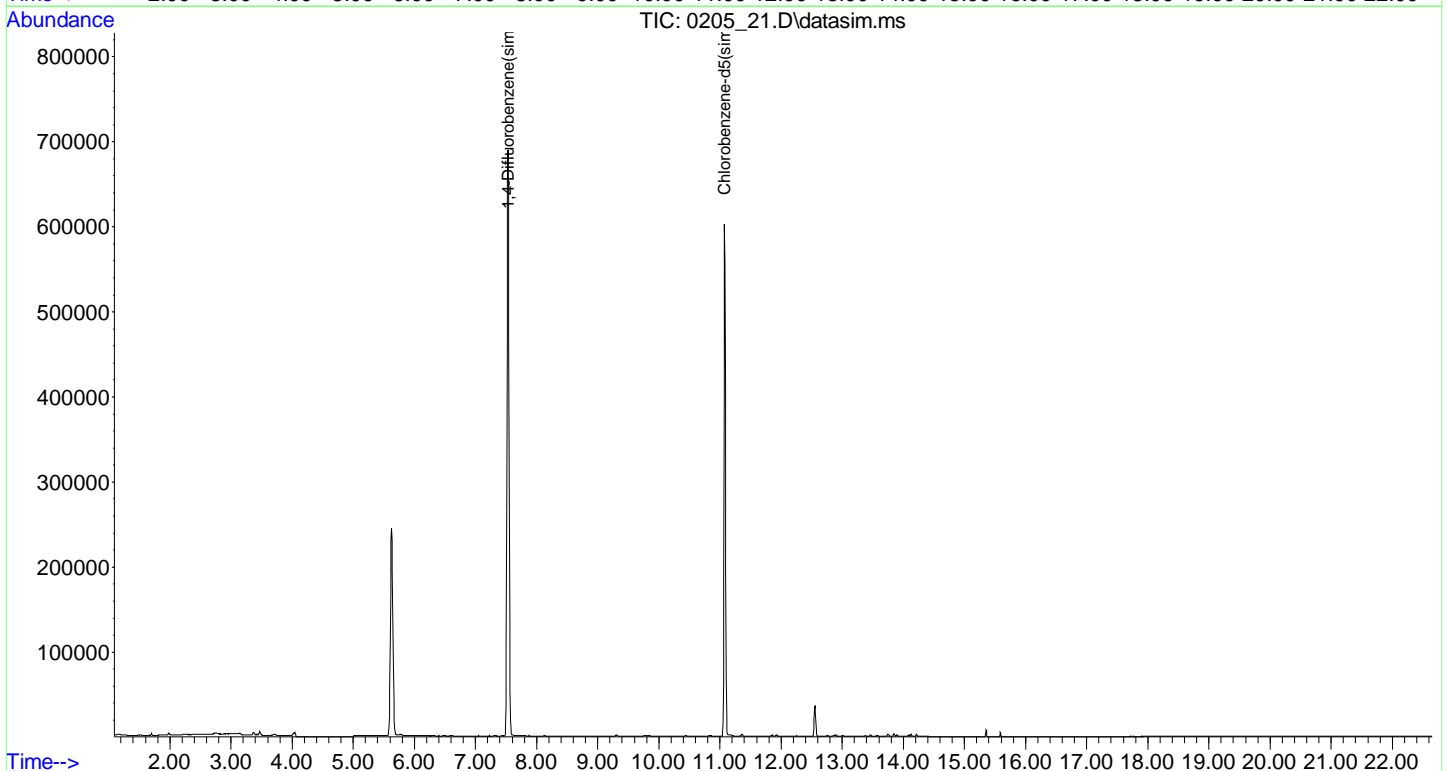
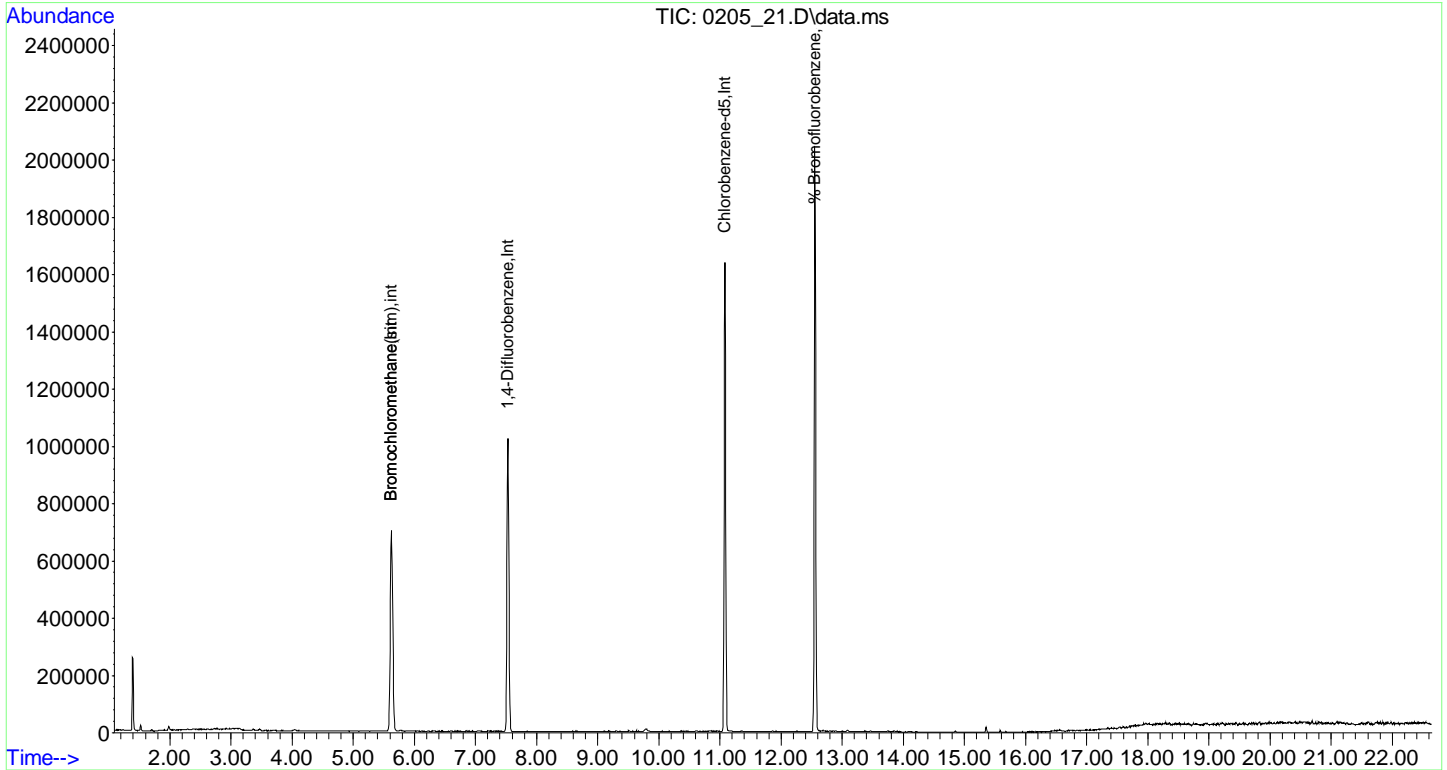
Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
Internal Standards						
1) Bromchloromethane	5.623	130	346390	10.000	ng	0.00
36) 1,4-Difluorobenzene	7.528	114	998793	10.000	ng	0.00
53) Chlorobenzene-d5	11.079	82	528094	10.000	ng	0.00
80) Bromchloromethane(sim)	5.623	130	346390	10.000	ng	0.00
93) 1,4-Difluorobenzene(sim)	7.531	114	1091216	10.000	ng	# 0.00
103) Chlorobenzene-d5(sim)	11.075	82	566602	10.000	ng	# 0.00
System Monitoring Compounds						
62) % Bromfluorobenzene	12.551	95	708233	9.520	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	95.20%
Target Compounds						
77) 1,2,4-Trichlorobenzene	15.356	180	2017	0.083	ppbv	Qvalue 99
79) Hexachlorobutadiene	15.356	225	1641	0.046	ppbv	99
117) 1,2,4-Trichlorobenzene...	15.354	180	2446	0.073	ppbv	94

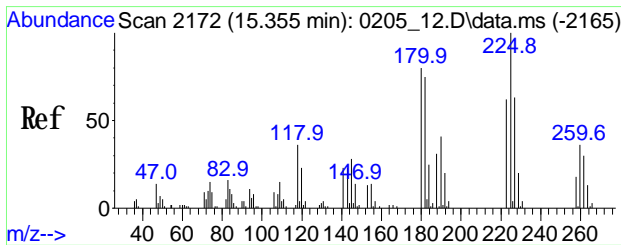
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2019\CHEM24\02FEB\05\
Data File : 0205_21.D
Acq On : 6 Feb 2019 5:11 am
Operator : Keith
Client ID : CANISTER BLK 1429
Lab ID : CANISTER BLK 1429
ALS Vial : 18 Sample Multiplier: 1

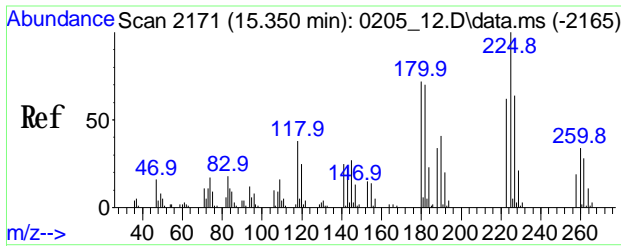
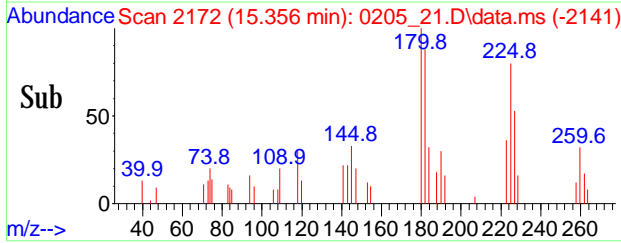
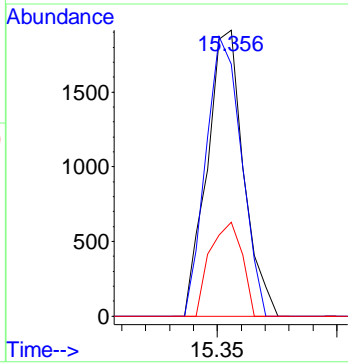
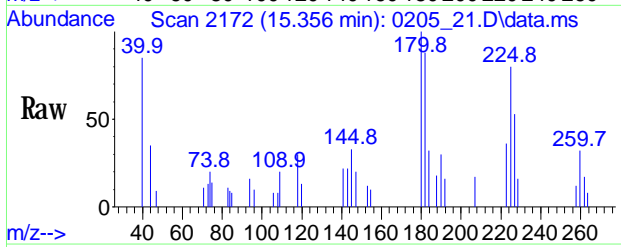
Quant Time: Feb 06 10:35:34 2019
Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR_0205.M
Quant Title : VOA Standards for 5 point calibration
Last Update : Wed Feb 06 09:31:49 2019
Response via : Initial Calibration





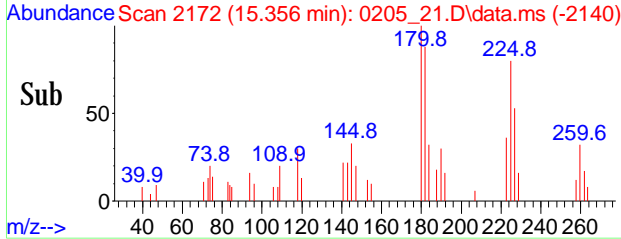
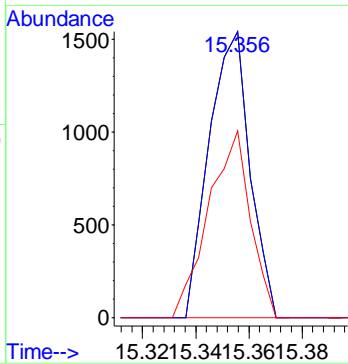
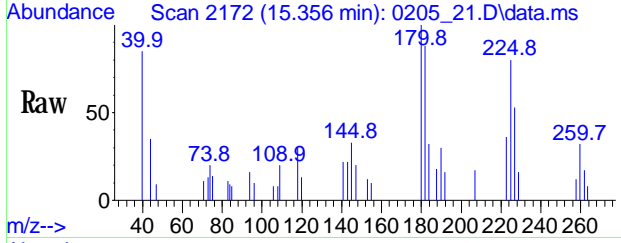
#77
 1,2,4-Trichlorobenzene
 Conc: 8S Below Cal
 RT: 15.356 min Scan# 2172
 Delta R.T. 0.001 min
 Lab File: 0205_21.D
 Acq: 6 Feb 2019 5:11 am

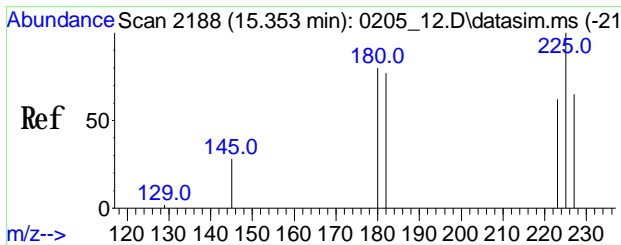
Tgt Ion	Ratio	Resp	Lower	Upper
180	100	2017		
182	95.5	76.6	115.0	
145	29.0	21.3	31.9	



#79
 Hexachlorobutadiene
 Conc: 8S Below Cal
 RT: 15.356 min Scan# 2172
 Delta R.T. 0.005 min
 Lab File: 0205_21.D
 Acq: 6 Feb 2019 5:11 am

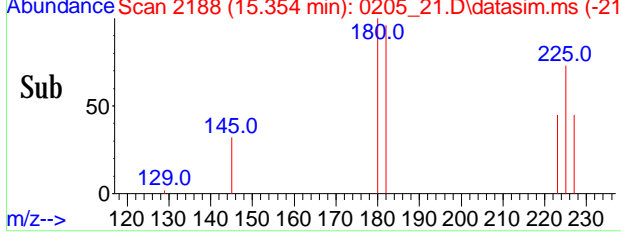
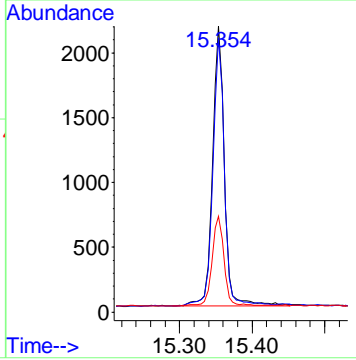
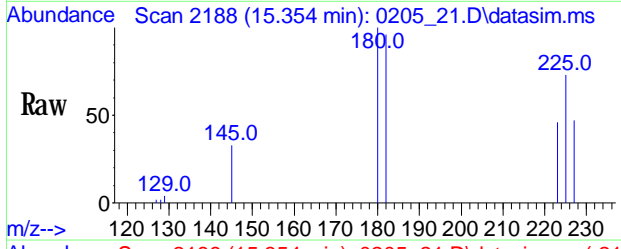
Tgt Ion	Ratio	Resp	Lower	Upper
225	100	1641		
225	100.0	60.0	140.0	
227	66.9	39.1	91.1	





#117
 1,2,4-Trichlorobenzene (sim)
 Conc: 8S Below Cal
 RT: 15.354 min Scan# 2188
 Delta R.T. 0.001 min
 Lab File: 0205_21.D
 Acq: 6 Feb 2019 5:11 am

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	2446		
182	94.1	78.0	118.0	
145	33.4	6.0	46.0	



Canister Cleaning Certification

Batch Id:	1429	Certified:	<input checked="" type="checkbox"/>
QC Canister Id:	802	Certified Date:	2/6/2019 5:11:00 AM
Canister Ids:	13641, 13647, 21344, 21367, 21370, 23334, 28603, 469, 492, 496, 497, 802	Certified By:	KCA
		Certified Computer:	AIRLAB
		Sample Id:	blk 1429

Comment: Initial vacuum of all canisters in this batch is -30 psig.

Data File: H:\AIR2019\CHEM24\02FEB\05\0205_21.D\0205_21-24AIR_0205.rr

Analyte	Result (ppbv)	Analyte	Result (ppbv)
% Bromofluorobenzene	9.5204	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-Dichloroethane(sim)	0	1,1-Dichloroethene	0
1,1-Dichloroethene(sim)	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-Dichloroethane(sim)	0
1,2-dichloropropane	0	1,2-dichloropropane(sim)	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	10	1,4-Difluorobenzene(sim)	10
1,4-Dioxane	0	1,4-Dioxane(sim)	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	10
Bromochloromethane(sim)	10	Bromodichloromethane	0
Bromodichloromethane(sim)	0	Bromoform	0
Bromoform(sim)	0	Bromomethane	0
Bromomethane(sim)	0	Carbon Disulfide	0
Carbon Tetrachloride	0	Carbon Tetrachloride(sim)	0
Chlorobenzene	0	Chlorobenzene-d5	10
Chlorobenzene-d5(sim)	10	Chloroethane	0
Chloroform	0	Chloromethane	0
Cis-1,2-Dichloroethene	0	Cis-1,2-Dichloroethene(sim)	0
cis-1,3-Dichloropropene	0	cis-1,3-Dichloropropene(sim)	0
Cyclohexane	0	Dibromochloromethane	0
Dibromochloromethane(sim)	0	Dichlorodifluoromethane	0
Ethanol	0.1819	Ethyl acetate	0
Ethylbenzene	0	Heptane	0
Hexachlorobutadiene	0	Hexachlorobutadiene(sim)	0.0343
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

Canister Cleaning Certification

Batch Id: 1429
 QC Canister Id: 802
 Canister Ids: 13641, 13647, 21344, 21367, 21370, 23334, 28603, 469, 492, 496, 497, 802

Certified:
 Certified Date: 2/6/2019 5:11:00 AM
 Certified By: KCA
 Certified Computer: AIRLAB
 Sample Id: blk 1429

Comment: Initial vacuum of all canisters in this batch is -30 psig.
 Data File: H:\AIR2019\CHEM24\02FEB\05\0205_21.D\0205_21-24AIR_0205.rr

Analyte	Result (ppbv)	Analyte	Result (ppbv)
n-Propylbenzene(sim)	0	Naphthalene	0
o-Xylene	0	Propylene	0
sec-Butylbenzene	0	sec-Butylbenzene(sim)	0
Styrene	0	tert-butyl alcohol	0.1712
tert-butylbenzene	0	tert-butylbenzene(sim)	0
Tetrachloroethene	0	Tetrachloroethene(sim)	0
Tetrahydrofuran	0	Toluene	0
Trans-1,2-Dichloroethene	0	Trans-1,2-Dichloroethene(sim)	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

1
AIR ANALYSIS DATA SHEET

CLIENT ID

CANISTER BLK 1467

Client: WALDENE Lab: Phoenix Env. Labs

SDG No.: GCC90508 Lab Sample ID: CANISTER BLK 1467

Canister: CANBL Lab File ID: 0317_30.D

Instrument: CHEM24 Column: _____ Date Received: _____

Purge Volume 200 (cc) Date Analyzed: 03/18/19

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
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	0.864	U	0.864	0.864	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
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)	0.078	U	0.078	0.078	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
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

CANISTER BLK 1467

Client:	WALDENE	Lab:	Phoenix Env. Labs
SDG No.:	GCC90508	Lab Sample ID:	CANISTER BLK 1467
Canister:	CANBL	Lab File ID:	0317_30.D
Instrument:	CHEM24	Column:	_____
Purge Volume	200	(cc)	Date Received: _____
Matrix:	AIR	Dilution Factor:	1
		Date Analyzed:	03/18/19

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
56-23-5	Carbon Tetrachloride(sim)	0.032	U	0.032	0.032	r
75-35-4	1,1-Dichloroethene(sim)	0.051	U	0.051	0.051	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)	0.051	U	0.051	0.051	r
67-66-3	Chloroform(sim)	0.205	U	0.205	0.205	r
107-06-2	1,2-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
79-01-6	Trichloroethene(sim)	0.037	U	0.037	0.037	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)	0.135	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

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2019\CHEM24\03MAR\17\
 Data File : 0317_30.D
 Acq On : 18 Mar 2019 5:14 pm
 Operator : Keith
 Client ID : CANISTER BLK 1467
 Lab ID : CANISTER BLK 1467
 ALS Vial : 49 Sample Multiplier: 1

Quant Time: Mar 19 08:35:53 2019
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR_0312.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Wed Mar 13 10:08:37 2019
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
Internal Standards						
1) Bromchloromethane	5.594	130	181634	10.000	ng	0.00
36) 1,4-Difluorobenzene	7.501	114	480310	10.000	ng	0.00
53) Chlorobenzene-d5	11.059	82	242021	10.000	ng	0.00
80) Bromchloromethane(sim)	5.594	130	181634	10.000	ng	0.00
94) 1,4-Difluorobenzene(sim)	7.501	114	480310	10.000	ng	0.00
104) Chlorobenzene-d5(sim)	11.059	82	242021	10.000	ng	# 0.00
System Monitoring Compounds						
62) % Bromfluorobenzene	12.532	95	335870	9.755	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	97.50%

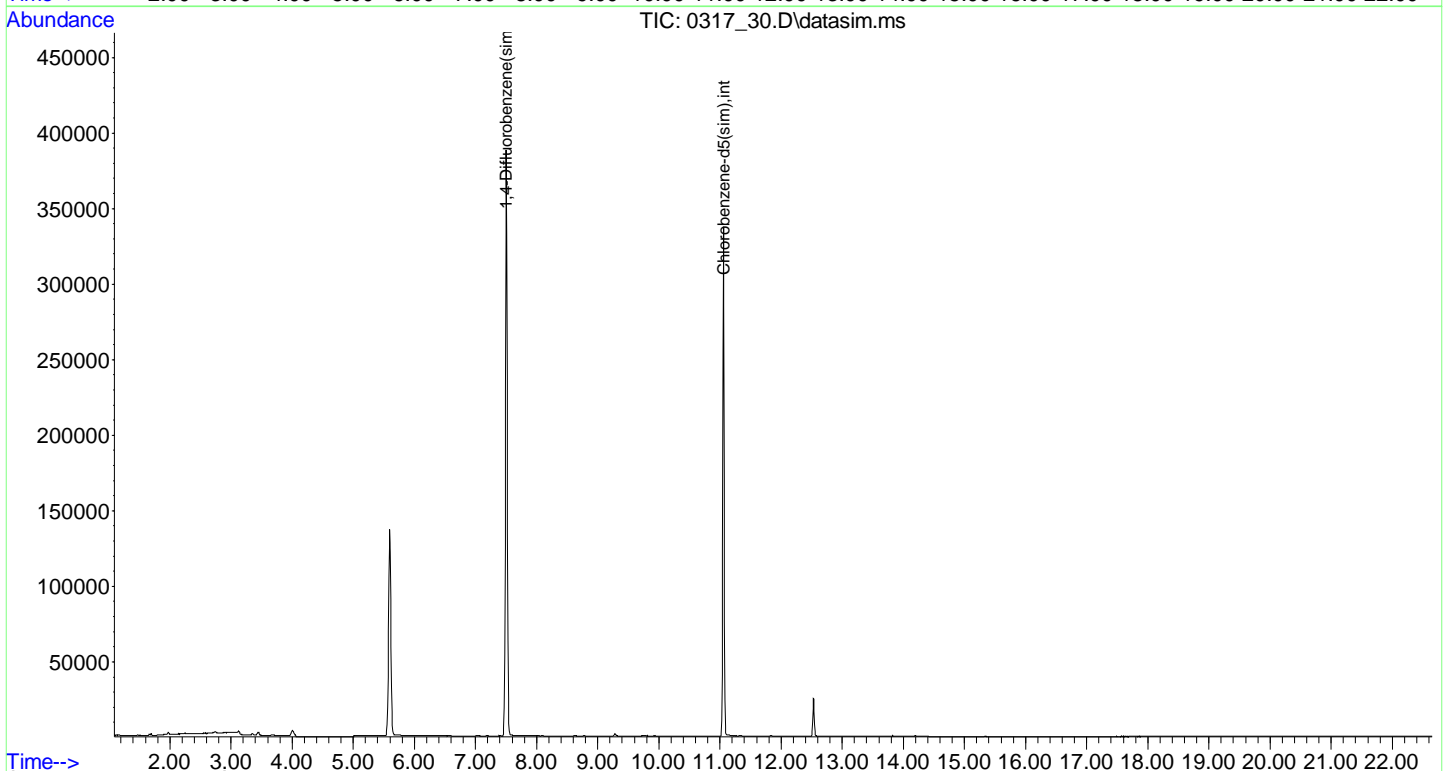
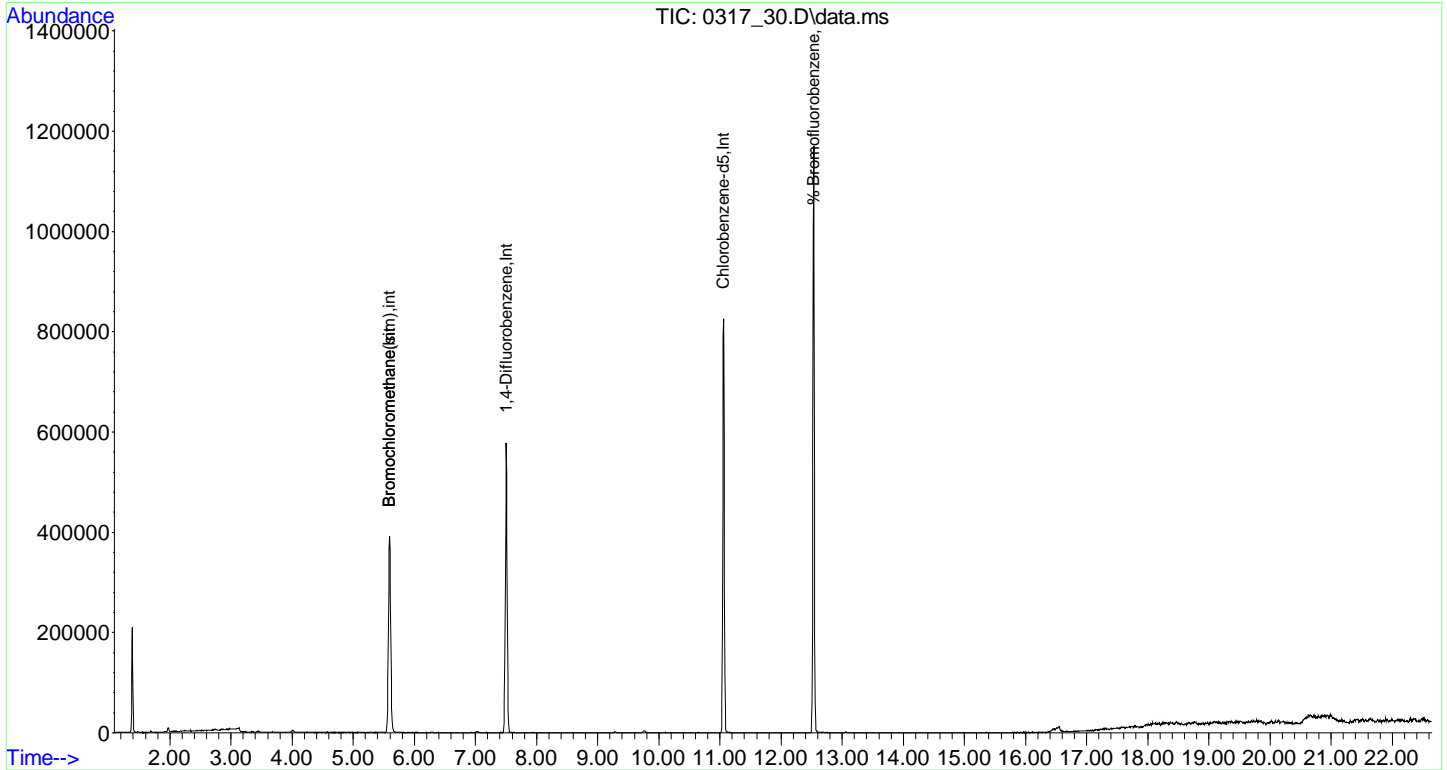
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2019\CHEM24\03MAR17\
Data File : 0317_30.D
Acq On : 18 Mar 2019 5:14 pm
Operator : Keith
Client ID : CANISTER BLK 1467
Lab ID : CANISTER BLK 1467
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Mar 19 08:35:53 2019
Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR_0312.M
Quant Title : VOA Standards for 5 point calibration
Last Update : Wed Mar 13 10:08:37 2019
Response via : Initial Calibration



Canister Cleaning Certification

Batch Id:	1467	Certified:	<input checked="" type="checkbox"/>
QC Canister Id:	812	Certified Date:	3/18/2019 5:14:00 PM
Canister Ids:	19632, 19916, 19960, 215, 222, 228, 28581, 28609, 28623, 456, 489, 812	Certified By:	k
		Certified Computer:	AIRLAB
		Sample Id:	blk 1467

Comment: Initial vacuum of all canisters in this batch is -30 psig.

1 Compounds > than RL

Data File: H:\AIR2019\CHEM24\03MAR\17\0317_30.D\0317_30-24AIR_0312.rr

% Bromofluorobenzene	9.7546	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-Dichloroethane(sim)	0	1,1-Dichloroethene	0
1,1-Dichloroethene(sim)	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-Dichloroethane(sim)	0
1,2-dichloropropane	0	1,2-dichloropropane(sim)	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	10	1,4-Difluorobenzene(sim)	10
1,4-Dioxane	0	1,4-Dioxane(sim)	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	10
Bromochloromethane(sim)	10	Bromodichloromethane	0
Bromodichloromethane(sim)	0	Bromoform	0
Bromoform(sim)	0	Bromomethane	0
Bromomethane(sim)	0	Carbon Disulfide	0
Carbon Tetrachloride	0	Carbon Tetrachloride(sim)	0
Chlorobenzene	0	Chlorobenzene-d5	10
Chlorobenzene-d5(sim)	10	Chloroethane	0
Chloroform	0	Chloroform(sim)	0
Chloromethane	0	Cis-1,2-Dichloroethene	0
Cis-1,2-Dichloroethene(sim)	0	cis-1,3-Dichloropropene	0
cis-1,3-Dichloropropene(sim)	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

Canister Cleaning Certification

Batch Id: 1467	Certified: <input checked="" type="checkbox"/>
QC Canister Id: 812	Certified Date: 3/18/2019 5:14:00 PM
Canister Ids: 19632, 19916, 19960, 215, 222, 228, 28581, 28609, 28623, 456, 489, 812	Certified By: k
	Certified Computer: AIRLAB
	Sample Id: blk 1467

Comment: Initial vacuum of all canisters in this batch is -30 psig.

1 Compounds > than RL

Data File: H:\AIR2019\CHEM24\03MAR\17\0317_30.D\0317_30-24AIR_0312.rr

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	0.3539	tert-butylbenzene	0
tert-butylbenzene(sim)	0	Tetrachloroethene	0
Tetrachloroethene(sim)	0	Tetrahydrofuran	0
Toluene	0	Trans-1,2-Dichloroethene	0
Trans-1,2-Dichloroethene(sim)	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		

1
AIR ANALYSIS DATA SHEET

CLIENT ID

CANISTER BLK 1473

Client: WALDENE Lab: Phoenix Env. Labs

SDG No.: GCC90508 Lab Sample ID: CANISTER BLK 1473

Canister: CANBL Lab File ID: 0322_11.D

Instrument: CHEM20 Column: _____ Date Received: _____

Purge Volume 200 (cc) Date Analyzed: 03/22/19

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
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	0.864	U	0.864	0.864	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
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
630-20-6	1,1,1,2-Tetrachloroethane	0.146	U	0.146	0.146	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)	0.078	U	0.078	0.078	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

CANISTER BLK 1473

Client:	WALDENE	Lab:	Phoenix Env. Labs
SDG No.:	GCC90508	Lab Sample ID:	CANISTER BLK 1473
Canister:	CANBL	Lab File ID:	0322_11.D
Instrument:	CHEM20	Column:	_____
Purge Volume	200	(cc)	Date Received: _____
Matrix:	AIR	Dilution Factor:	1
		Date Analyzed:	03/22/19

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	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)	0.032	U	0.032	0.032	r
75-35-4	1,1-Dichloroethene(sim)	0.051	U	0.051	0.051	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)	0.051	U	0.051	0.051	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)	0.037	U	0.037	0.037	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
179601-23-1	m,p-Xylene(sim)	0.230	U	0.230	0.230	r
79-34-5	1,1,1,2-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

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2019\CHEM20\03MAR\22\
 Data File : 0322_11.D
 Acq On : 22 Mar 2019 05:01 pm
 Operator : CORTEX\ms
 Client ID : CANISTER BLK 1473
 Lab ID : CANISTER BLK 1473
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 25 09:35:38 2019
 Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_0321.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Mar 25 09:24:14 2019
 Response via : Initial Calibration

Compound	R.T.	QI	Ion	Response	Conc	Units	Dev(Mn)
Internal Standards							
1) Bromchloromethane	6.879	130		202805	10.000	ng	0.00
36) 1,4-Difluorobenzene	7.781	114		946700	10.000	ng	0.00
53) Chlorobenzene-d5	9.815	82		479618	10.000	ng	0.00
80) Bromchloromethane(sim)	6.882	130		257004	10.000	ng	# 0.00
94) 1,4-Difluorobenzene(sim)	7.775	114		1096383	10.000	ng	0.00
104) Chlorobenzene-d5(sim)	9.810	82		491031	10.000	ng	0.00
System Monitoring Compounds							
62) % Bromfluorobenzene	10.596	95		686766	10.265	ppby	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	102.70%	

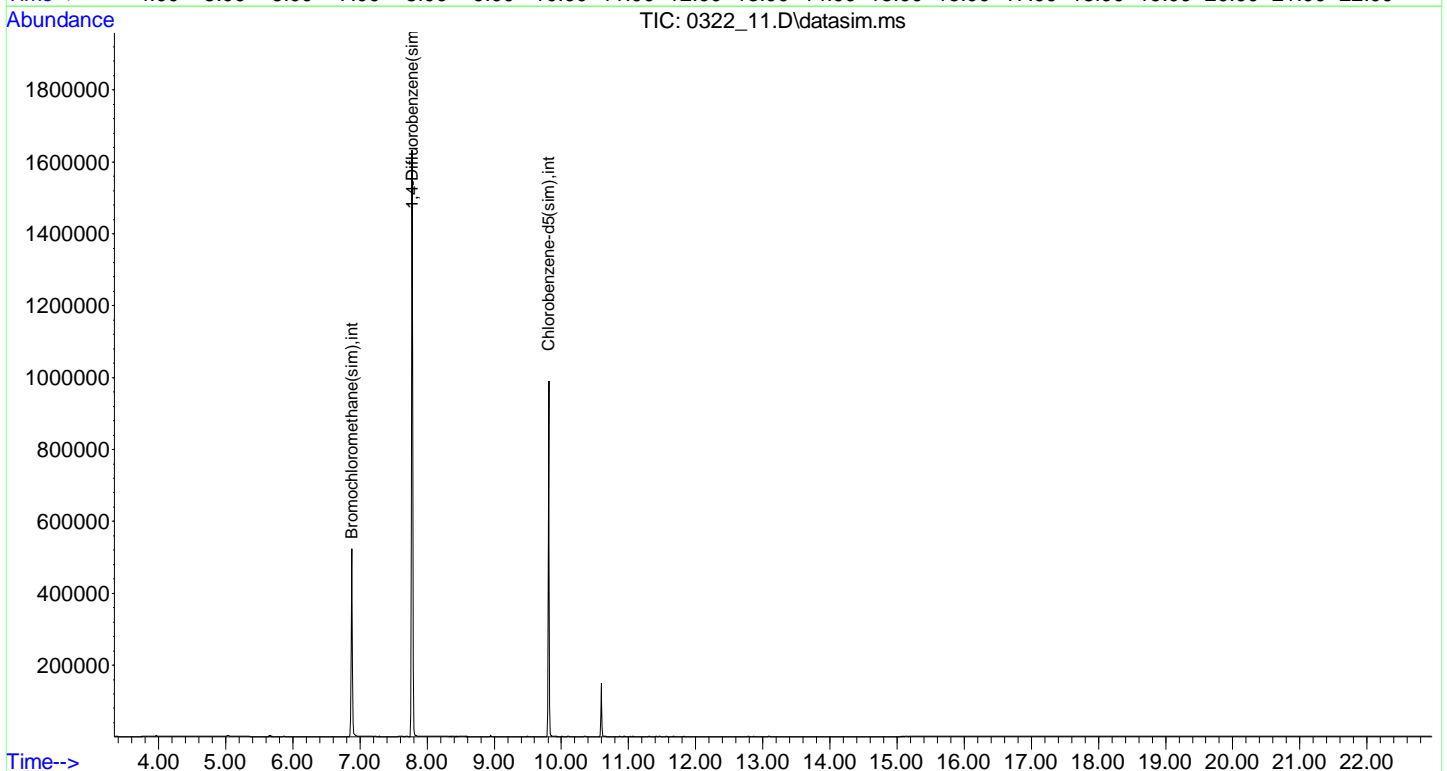
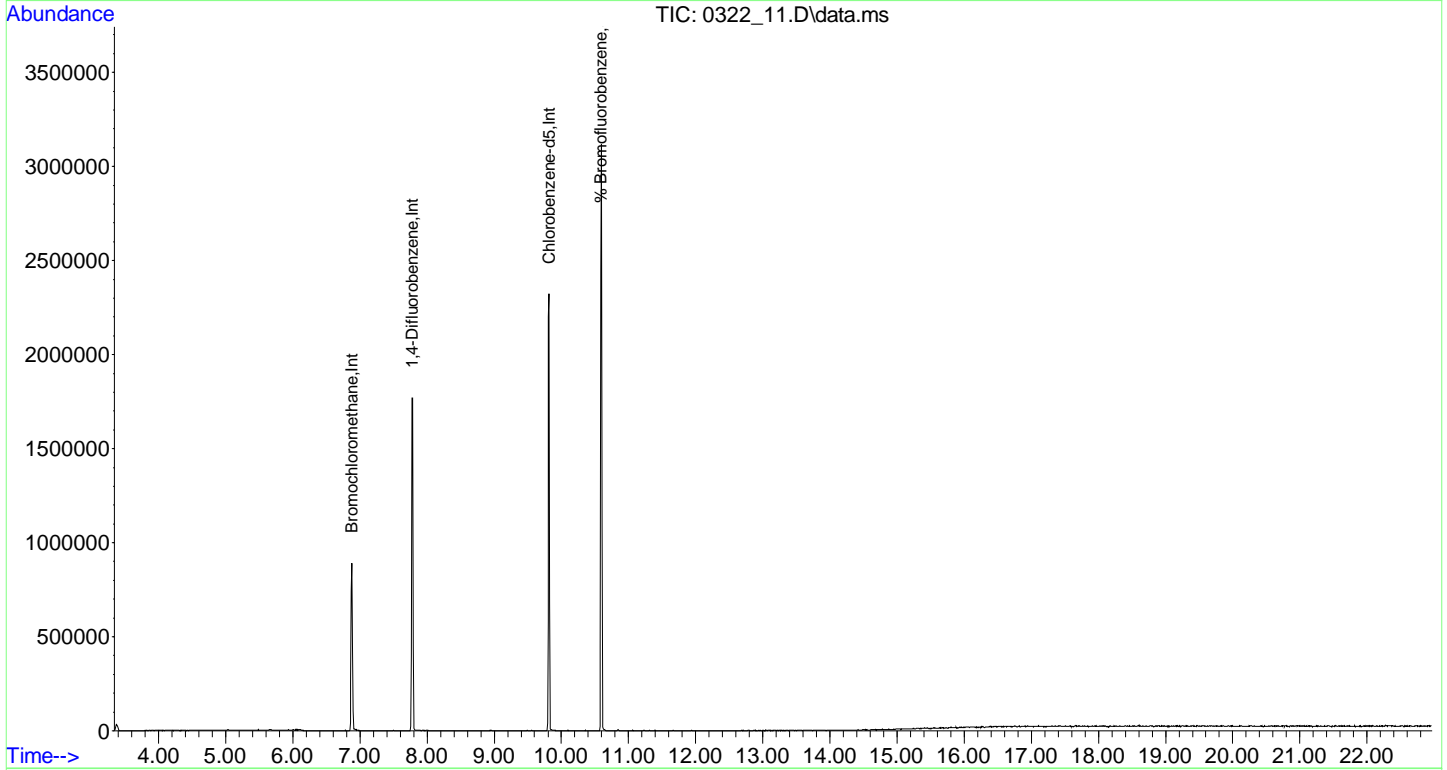
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2019\CHEM20\03MAR\22\
Data File : 0322_11.D
Acq On : 22 Mar 2019 05:01 pm
Operator : CORTEX\ns
Client ID : CANISTER BLK 1473
Lab ID : CANISTER BLK 1473
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 25 09:35:38 2019
Quant Method : H:\AIR2019\CHEM20\METHODS\20_AIR_0321.M
Quant Title : VOA Standards for 5 point calibration
Last Update : Mon Mar 25 09:24:14 2019
Response via : Initial Calibration



Canister Cleaning Certification

Batch Id:	1473	Certified:	<input checked="" type="checkbox"/>
QC Canister Id:	706	Certified Date:	3/22/2019 5:01:00 PM
Canister Ids:	13635, 13647, 19732, 19854, 21357, 216, 28548, 28557, 28563, 28603, 353, 706	Certified By:	KCA
		Certified Computer:	AIRLAB
		Sample Id:	blk 1473

Comment: Initial vacuum of all canisters in this batch is -30 psig.

Data File: H:\AIR2019\CHEM20\03MAR\22\0322_11.D\0322_11-20_AIR_0321.rr

Analyte	Result (ppbv)	Analyte	Result (ppbv)
% Bromofluorobenzene	10.2651	1,1,1,2-Tetrachloroethane	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-Dichloroethane(sim)	0
1,1-Dichloroethene	0	1,1-Dichloroethene(sim)	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-Dichloroethane(sim)	0	1,2-dichloropropane	0
1,2-dichloropropane(sim)	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	10
1,4-Difluorobenzene(sim)	10	1,4-Dioxane	0
1,4-Dioxane(sim)	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	10	Bromochloromethane(sim)	10
Bromodichloromethane	0	Bromodichloromethane(sim)	0
Bromoform	0	Bromoform(sim)	0
Bromomethane	0	Bromomethane(sim)	0
Carbon Disulfide	0	Carbon Tetrachloride	0
Carbon Tetrachloride(sim)	0	Chlorobenzene	0
Chlorobenzene-d5	10	Chlorobenzene-d5(sim)	10
Chloroethane	0	Chloroform	0
Chloroform(sim)	0	Chloromethane	0
Cis-1,2-Dichloroethene	0	Cis-1,2-Dichloroethene(sim)	0
cis-1,3-Dichloropropene	0	cis-1,3-Dichloropropene(sim)	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

Canister Cleaning Certification

Batch Id: 1473	Certified: <input checked="" type="checkbox"/>
QC Canister Id: 706	Certified Date: 3/22/2019 5:01:00 PM
Canister Ids: 13635, 13647, 19732, 19854, 21357, 216, 28548, 28557, 28563, 28603, 353, 706	Certified By: KCA
	Certified Computer: AIRLAB
	Sample Id: blk 1473

Comment: Initial vacuum of all canisters in this batch is -30 psig.
Data File: H:\AIR2019\CHEM20\03MAR\22\0322_11.D\0322_11-20_AIR_0321.rr

Analyte	Result (ppbv)	Analyte	Result (ppbv)
n-Propylbenzene(sim)	0	Naphthalene	0
Naphthalene(sim)	0	o-Xylene	0
Propylene	0	sec-Butylbenzene	0
sec-Butylbenzene(sim)	0	Styrene	0
tert-butyl alcohol	0	tert-butylbenzene	0
tert-butylbenzene(sim)	0	Tetrachloroethene	0
Tetrachloroethene(sim)	0	Tetrahydrofuran	0
Toluene	0	Trans-1,2-Dichloroethene	0
Trans-1,2-Dichloroethene(sim)	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		

1
AIR ANALYSIS DATA SHEET

CLIENT ID

CANISTER BLK 1474

Client:	WALDENE	Lab:	Phoenix Env. Labs
SDG No.:	GCC90508	Lab Sample ID:	CANISTER BLK 1474
Canister:	CANBL	Lab File ID:	0322_08.D
Instrument:	CHEM24	Column:	_____
Purge Volume	200	(cc)	Date Received: _____
Matrix:	AIR	Dilution Factor:	1
		Date Analyzed:	03/22/19

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	0.864	U	0.864	0.864	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
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)	0.078	U	0.078	0.078	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
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

CANISTER BLK 1474

Client:	WALDENE	Lab:	Phoenix Env. Labs
SDG No.:	GCC90508	Lab Sample ID:	CANISTER BLK 1474
Canister:	CANBL	Lab File ID:	0322_08.D
Instrument:	CHEM24	Column:	_____
Purge Volume	200	(cc)	Date Received: _____
Matrix:	AIR	Dilution Factor:	1
		Date Analyzed:	03/22/19

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
56-23-5	Carbon Tetrachloride(sim)	0.032	U	0.032	0.032	r
75-35-4	1,1-Dichloroethene(sim)	0.051	U	0.051	0.051	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)	0.051	U	0.051	0.051	r
67-66-3	Chloroform(sim)	0.205	U	0.205	0.205	r
107-06-2	1,2-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
79-01-6	Trichloroethene(sim)	0.037	U	0.037	0.037	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)	0.135	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

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2019\CHEM24\03MAR\22\
 Data File : 0322_08.D
 Acq On : 22 Mar 2019 4:59 pm
 Operator : Keith
 Client ID : CANISTER BLK 1474
 Lab ID : CANISTER BLK 1474
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 25 08:33:05 2019
 Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR_0320.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Thu Mar 21 15:12:43 2019
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Mn)
Internal Standards						
1) Bromchloromethane	5.651	130	190712	10.000	ng	0.06
36) 1,4-Difluorobenzene	7.549	114	508308	10.000	ng	0.04
53) Chlorobenzene-d5	11.093	82	260300	10.000	ng	0.03
80) Bromchloromethane(sim)	5.651	130	190712	10.000	ng	0.06
94) 1,4-Difluorobenzene(sim)	7.549	114	508308	10.000	ng	0.04
104) Chlorobenzene-d5(sim)	11.093	82	260300	10.000	ng	0.03
System Monitoring Compounds						
62) % Bromfluorobenzene	12.564	95	339541	9.255	ppbv	0.03
Spiked Amount	10.000	Range	70 - 130	Recovery	=	92.50%

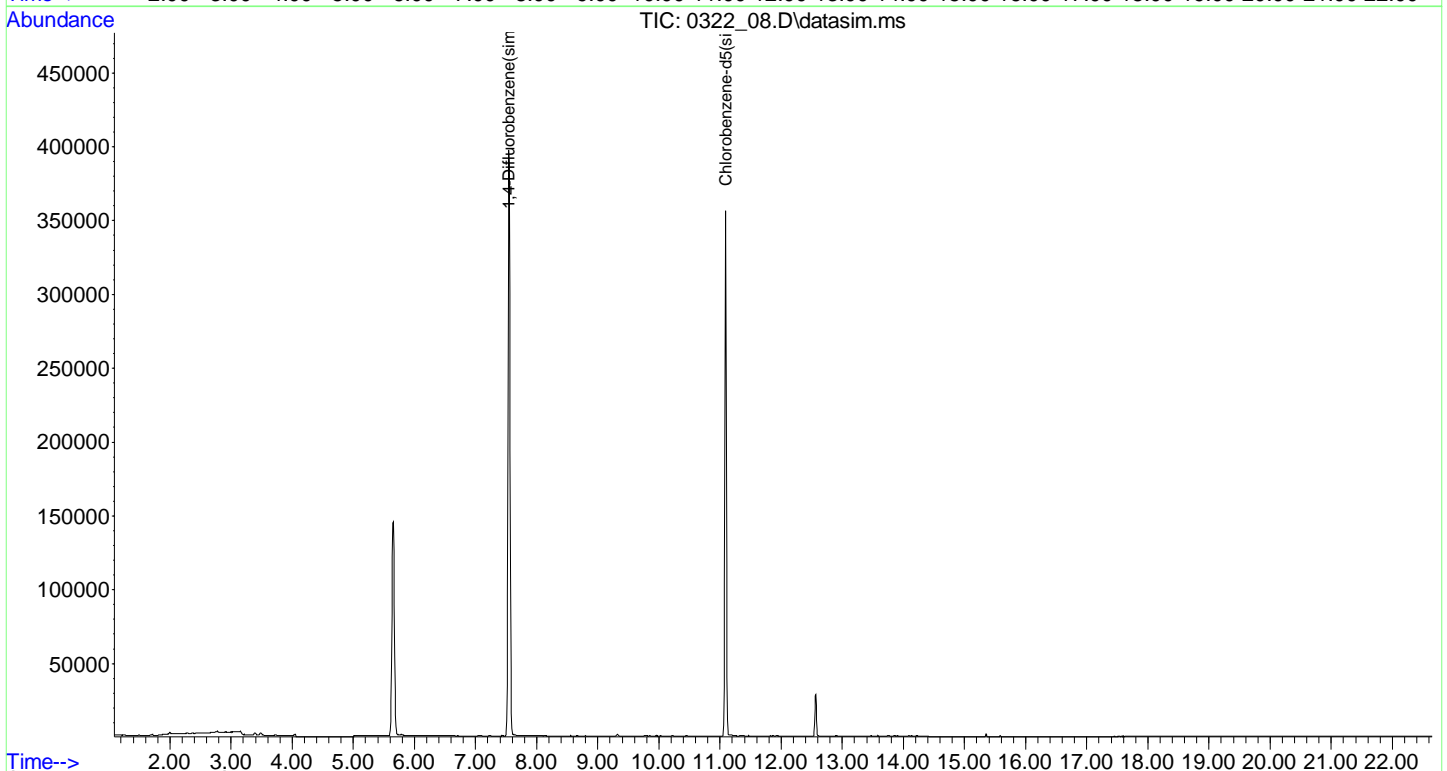
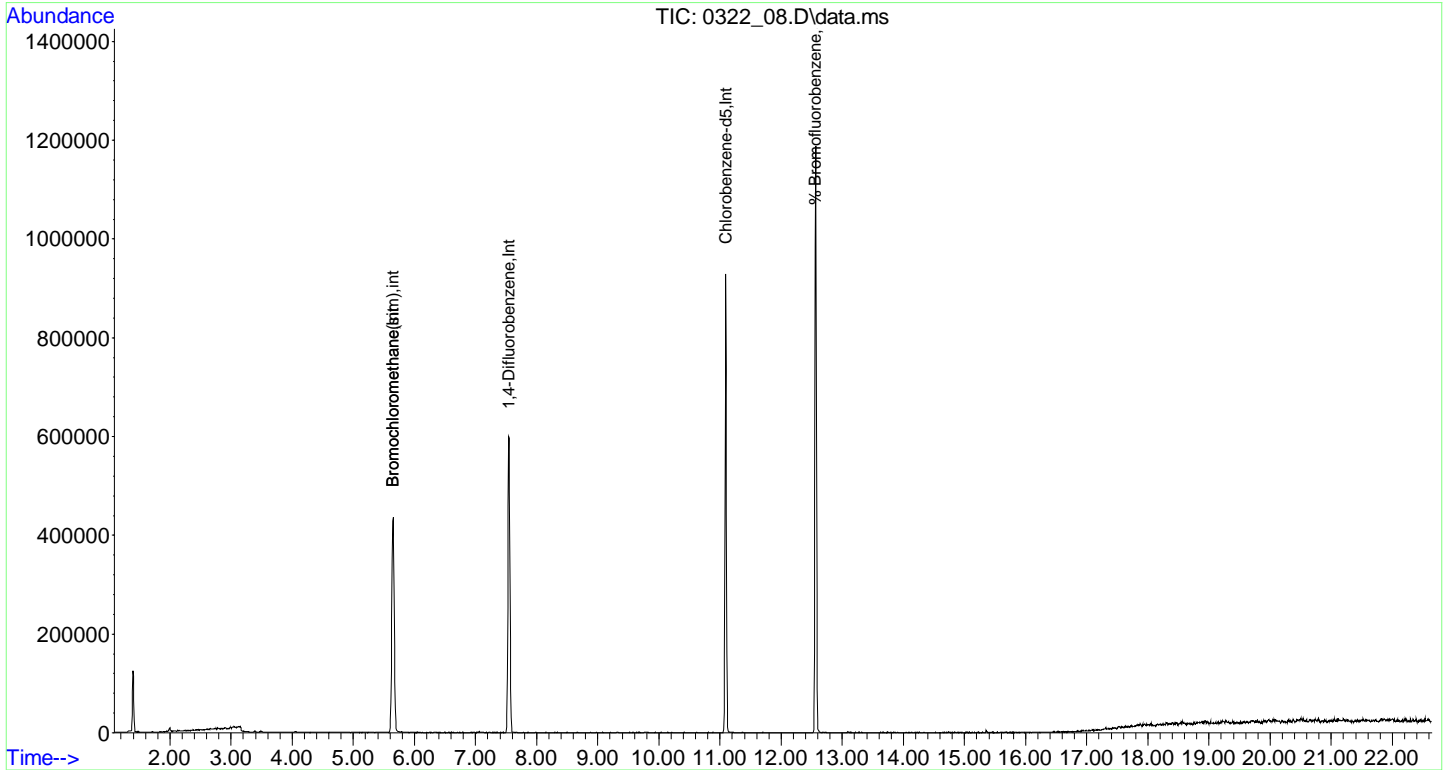
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2019\CHEM24\03MAR\22\
Data File : 0322_08.D
Acq On : 22 Mar 2019 4:59 pm
Operator : Keith
Client ID : CANISTER BLK 1474
Lab ID : CANISTER BLK 1474
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 25 08:33:05 2019
Quant Method : H:\AIR2019\CHEM24\METHODS\24AIR_0320.M
Quant Title : VOA Standards for 5 point calibration
Last Update : Thu Mar 21 15:12:43 2019
Response via : Initial Calibration



Canister Cleaning Certification

Batch Id:	1474	Certified:	<input checked="" type="checkbox"/>
QC Canister Id:	715	Certified Date:	3/22/2019 4:59:00 PM
Canister Ids:	11285, 11286, 156, 18851, 21341, 23327, 23340, 28592, 28600, 28607, 482, 715	Certified By:	KCA
		Certified Computer:	AIRLAB
		Sample Id:	blk 1474

Comment: Initial vacuum of all canisters in this batch is -30 psig.

Data File: H:\AIR2019\CHEM24\03MAR\22\0322_08.D\0322_08-24AIR_0320.rr

Analyte	Result (ppbv)	Analyte	Result (ppbv)
% Bromofluorobenzene	9.255	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-Dichloroethane(sim)	0	1,1-Dichloroethene	0
1,1-Dichloroethene(sim)	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-Dichloroethane(sim)	0
1,2-dichloropropane	0	1,2-dichloropropane(sim)	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	10	1,4-Difluorobenzene(sim)	10
1,4-Dioxane	0	1,4-Dioxane(sim)	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	10
Bromochloromethane(sim)	10	Bromodichloromethane	0
Bromodichloromethane(sim)	0	Bromoform	0
Bromoform(sim)	0	Bromomethane	0
Bromomethane(sim)	0	Carbon Disulfide	0
Carbon Tetrachloride	0	Carbon Tetrachloride(sim)	0
Chlorobenzene	0	Chlorobenzene-d5	10
Chlorobenzene-d5(sim)	10	Chloroethane	0
Chloroform	0	Chloroform(sim)	0
Chloromethane	0	Cis-1,2-Dichloroethene	0
Cis-1,2-Dichloroethene(sim)	0	cis-1,3-Dichloropropene	0
cis-1,3-Dichloropropene(sim)	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

Canister Cleaning Certification

Batch Id: 1474	Certified: <input checked="" type="checkbox"/>
QC Canister Id: 715	Certified Date: 3/22/2019 4:59:00 PM
Canister Ids: 11285, 11286, 156, 18851, 21341, 23327, 23340, 28592, 28600, 28607, 482, 715	Certified By: KCA
	Certified Computer: AIRLAB
	Sample Id: blk 1474

Comment: Initial vacuum of all canisters in this batch is -30 psig.
Data File: H:\AIR2019\CHEM24\03MAR\22\0322_08.D\0322_08-24AIR_0320.rr

Analyte	Result (ppbv)	Analyte	Result (ppbv)
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	tert-butylbenzene	0
tert-butylbenzene(sim)	0	Tetrachloroethene	0
Tetrachloroethene(sim)	0	Tetrahydrofuran	0
Toluene	0	Trans-1,2-Dichloroethene	0
Trans-1,2-Dichloroethene(sim)	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:\AIR2019\CHEM20\01JAN\25\

Line	VI	FileName	SampleName	MscInfo	Injection Time
1)	0	0125_33.D	XXXXXXXXXX		N/A
2)	1	0125_01.D	XXXXXXXXXX		01/25/19 18:03
3)	1	0125_02.D	XXXXXXXXXX		01/25/19 18:42
4)	1	0125_03.D	XXXXXXXXXX		01/25/19 19:20
5)	1	0125_04.D	XXXXXXXXXX		01/25/19 20:01
6)	1	0125_05.D	XXXXXXXXXX		01/25/19 20:39
7)	1	0125_06.D	XXXXXXXXXX		01/25/19 21:15
8)	1	0125_07.D	XXXXXXXXXX		01/25/19 21:50
9)	1	0125_08.D	XXXXXXXXXX		01/25/19 22:31
10)	1	0125_09.D	CANISTER BLK 1417	CANISTER BLK 1417	01/25/19 23:12
11)	1	0125_10.D	XXXXXXXXXX		01/25/19 23:52
12)	1	0125_11.D	XXXXXXXXXX		01/26/19 0:33
13)	1	0125_12.D	XXXXXXXXXX		01/26/19 1:15
14)	1	0125_13.D	XXXXXXXXXX		01/26/19 1:56
15)	1	0125_14.D	XXXXXXXXXX		01/26/19 2:37
16)	1	0125_15.D	XXXXXXXXXX		01/26/19 3:18
17)	1	0125_16.D	XXXXXXXXXX		01/26/19 4:00
18)	1	0125_17.D	XXXXXXXXXX		01/26/19 4:41
19)	1	0125_18.D	XXXXXXXXXX		01/26/19 5:22
20)	1	0125_19.D	XXXXXXXXXX		01/26/19 6:04
21)	1	0125_20.D	XXXXXXXXXX		01/26/19 6:42
22)	1	0125_21.D	XXXXXXXXXX		01/26/19 7:20
23)	1	0125_22.D	XXXXXXXXXX		01/26/19 7:58
24)	1	0125_23.D	XXXXXXXXXX		01/26/19 8:37
25)	1	0125_24.D	XXXXXXXXXX		01/26/19 9:15
26)	1	0125_25.D	XXXXXXXXXX		01/26/19 9:53
27)	1	0125_26.D	XXXXXXXXXX		01/26/19 10:32
28)	1	0125_27.D	XXXXXXXXXX		01/26/19 11:10
29)	1	0125_28.D	XXXXXXXXXX		01/26/19 11:49
30)	1	0125_29.D	XXXXXXXXXX		01/26/19 12:30
31)	1	0125_30.D	XXXXXXXXXX		01/26/19 13:11
32)	1	0125_31.D	XXXXXXXXXX		01/26/19 13:50
33)	1	0125_32.D	XXXXXXXXXX		01/26/19 14:28

Injection Log

Data Directory: H:\AIR2019\CHEM20\01JAN\31\

Line	VI	FileName	SampleName	MscInfo	Injection Time
1)	0	0131_60.D	XXXXXXXXXX		N/A
2)	1	0131_01.D	XXXXXXXXXX		01/31/19 14:20
3)	1	0131_02.D	XXXXXXXXXX		01/31/19 14:59
4)	1	0131_03.D	XXXXXXXXXX		01/31/19 15:37
5)	1	0131_04.D	XXXXXXXXXX		01/31/19 16:18
6)	1	0131_05.D	XXXXXXXXXX		01/31/19 16:57
7)	1	0131_06.D	XXXXXXXXXX		01/31/19 17:33
8)	1	0131_07.D	XXXXXXXXXX		01/31/19 18:08
9)	1	0131_08.D	XXXXXXXXXX		01/31/19 18:50
10)	1	0131_09.D	XXXXXXXXXX		01/31/19 19:30
11)	1	0131_10.D	XXXXXXXXXX		01/31/19 20:12
12)	1	0131_11.D	XXXXXXXXXX		01/31/19 21:20
13)	1	0131_12.D	XXXXXXXXXX		01/31/19 22:02
14)	1	0131_13.D	XXXXXXXXXX		01/31/19 22:43
15)	1	0131_14.D	XXXXXXXXXX		01/31/19 23:24
16)	1	0131_15.D	XXXXXXXXXX		02/01/19 0:06
17)	1	0131_16.D	XXXXXXXXXX		02/01/19 0:47
18)	1	0131_17.D	XXXXXXXXXX		02/01/19 1:28
19)	1	0131_18.D	XXXXXXXXXX		02/01/19 2:09
20)	1	0131_19.D	XXXXXXXXXX		02/01/19 2:51
21)	1	0131_20.D	XXXXXXXXXX		02/01/19 3:32
22)	1	0131_21.D	XXXXXXXXXX		02/01/19 4:14
23)	1	0131_22.D	XXXXXXXXXX		02/01/19 4:55
24)	1	0131_23.D	XXXXXXXXXX		02/01/19 5:37
25)	1	0131_24.D	XXXXXXXXXX		02/01/19 6:18
26)	1	0131_25.D	XXXXXXXXXX		02/01/19 6:56
27)	1	0131_26.D	XXXXXXXXXX		02/01/19 7:34
28)	1	0131_27.D	XXXXXXXXXX		02/01/19 9:49
29)	1	0131_28.D	XXXXXXXXXX		02/01/19 10:31
30)	1	0131_29.D	XXXXXXXXXX		02/01/19 11:09
31)	1	0131_30.D	XXXXXXXXXX		02/01/19 11:50
32)	1	0131_31.D	CANISTER BLK 1423	CANISTER BLK 1423	02/01/19 12:31
33)	1	0131_32.D	XXXXXXXXXX		02/01/19 13:09
34)	1	0131_33.D	XXXXXXXXXX		02/01/19 13:47
35)	1	0131_34.D	XXXXXXXXXX		02/01/19 14:26
36)	1	0131_35.D	XXXXXXXXXX		02/01/19 15:06
37)	1	0131_36.D	XXXXXXXXXX		02/01/19 15:45
38)	1	0131_37.D	XXXXXXXXXX		02/01/19 16:20
39)	1	0131_38.D	XXXXXXXXXX		02/01/19 16:56
40)	1	0131_39.D	XXXXXXXXXX		02/01/19 18:21
41)	1	0131_40.D	XXXXXXXXXX		02/01/19 19:02
42)	1	0131_41.D	XXXXXXXXXX		02/01/19 19:43
43)	1	0131_42.D	XXXXXXXXXX		02/01/19 20:19
44)	1	0131_43.D	XXXXXXXXXX		02/01/19 21:00
45)	1	0131_44.D	XXXXXXXXXX		02/01/19 21:41
46)	1	0131_45.D	XXXXXXXXXX		02/01/19 22:22
47)	1	0131_46.D	XXXXXXXXXX		02/01/19 23:03
48)	1	0131_47.D	XXXXXXXXXX		02/01/19 23:44
49)	1	0131_48.D	XXXXXXXXXX		02/02/19 0:26
50)	1	0131_49.D	XXXXXXXXXX		02/02/19 2:20
51)	1	0131_50.D	XXXXXXXXXX		02/02/19 3:01
52)	1	0131_51.D	XXXXXXXXXX		02/02/19 3:42
53)	1	0131_52.D	XXXXXXXXXX		02/02/19 4:23
54)	1	0131_53.D	XXXXXXXXXX		02/02/19 5:05
55)	1	0131_54.D	XXXXXXXXXX		02/02/19 5:46
56)	1	0131_55.D	XXXXXXXXXX		02/02/19 6:27
57)	1	0131_56.D	XXXXXXXXXX		02/02/19 7:08
58)	1	0131_57.D	XXXXXXXXXX		02/02/19 7:55
59)	1	0131_58.D	XXXXXXXXXX		02/02/19 8:33
60)	1	0131_59.D	XXXXXXXXXX		02/02/19 9:12

Injection Log

Data Directory: H:\AIR2019\CHEM20\03MAR\22\

Line	VI	FileName	SampleName	MscInfo	Injection Time
1)	0	0322_33.D	XXXXXXXXXX		N/A
2)	1	0322_01.D	XXXXXXXXXX		03/22/19 10:33
3)	1	0322_02.D	XXXXXXXXXX		03/22/19 11:11
4)	1	0322_03.D	XXXXXXXXXX		03/22/19 11:50
5)	1	0322_04.D	XXXXXXXXXX		03/22/19 12:30
6)	1	0322_05.D	XXXXXXXXXX		03/22/19 13:08
7)	1	0322_06.D	XXXXXXXXXX		03/22/19 13:44
8)	1	0322_07.D	XXXXXXXXXX		03/22/19 14:19
9)	1	0322_08.D	XXXXXXXXXX		03/22/19 15:00
10)	1	0322_09.D	XXXXXXXXXX		03/22/19 15:40
11)	1	0322_10.D	XXXXXXXXXX		03/22/19 16:21
12)	1	0322_11.D	CANISTER BLK 1473	CANISTER BLK 1473	03/22/19 17:01
13)	1	0322_12.D	XXXXXXXXXX		03/22/19 18:59
14)	1	0322_13.D	XXXXXXXXXX		03/22/19 19:37
15)	1	0322_14.D	XXXXXXXXXX		03/22/19 20:15
16)	1	0322_15.D	XXXXXXXXXX		03/22/19 20:53
17)	1	0322_16.D	XXXXXXXXXX		03/22/19 21:31
18)	1	0322_17.D	XXXXXXXXXX		03/22/19 22:09
19)	1	0322_18.D	XXXXXXXXXX		03/22/19 22:50
20)	1	0322_19.D	XXXXXXXXXX		03/22/19 23:28
21)	1	0322_20.D	XXXXXXXXXX		03/23/19 0:10
22)	1	0322_21.D	XXXXXXXXXX		03/23/19 0:51
23)	1	0322_22.D	XXXXXXXXXX		03/23/19 1:32
24)	1	0322_23.D	XXXXXXXXXX		03/23/19 2:10
25)	1	0322_24.D	XXXXXXXXXX		03/23/19 2:48
26)	1	0322_25.D	XXXXXXXXXX		03/23/19 3:29
27)	1	0322_26.D	XXXXXXXXXX		03/23/19 4:10
28)	1	0322_27.D	XXXXXXXXXX		03/23/19 4:48
29)	1	0322_28.D	XXXXXXXXXX		03/23/19 5:26
30)	1	0322_29.D	XXXXXXXXXX		03/23/19 6:04
31)	1	0322_30.D	XXXXXXXXXX		03/23/19 9:23
32)	1	0322_31.D	XXXXXXXXXX		03/23/19 10:01
33)	1	0322_32.D	XXXXXXXXXX		03/23/19 10:40

Injection Log

Data Directory: H:\AIR2019\CHEM20\04APR\09\

Line	VI	FileName	SampleName	MscInfo	Injection Time
1)	0	0409_58.D	xxxxxxxxxx		N/A
2)	1	0409_01.D	xxxxxxxxxx		04/09/19 5:57
3)	1	0409_02.D	BFB TUNE	0/0	04/09/19 6:32
4)	1	0409_03.D	xxxxxxxxxx		04/09/19 7:08
5)	1	0409_04.D	ICAL 0.02	0.02	04/09/19 7:45
6)	1	0409_05.D	ICAL 0.035	0.035	04/09/19 8:22
7)	1	0409_06.D	ICAL 0.05	0.05	04/09/19 8:59
8)	1	0409_07.D	ICAL 0.1	0.10	04/09/19 9:36
9)	1	0409_08.D	ICAL 0.5	0.50	04/09/19 10:16
10)	1	0409_09.D	ICAL 2.5	2.5	04/09/19 10:56
11)	1	0409_10.D	ICAL 5	5.0	04/09/19 11:33
12)	1	0409_11.D	ICAL 25	25	04/09/19 12:13
13)	1	0409_12.D	ICAL 40	40	04/09/19 12:55
14)	1	0409_13.D	xxxxxxxxxx		04/09/19 13:31
15)	1	0409_14.D	BFB TUNE	1ppb cc	04/09/19 14:09
16)	1	0409_15.D	ICAL 0.2	0.2ppb	04/09/19 14:47
17)	1	0409_16.D	ICAL 10	10ppb cc	04/09/19 15:24
18)	1	0409_17.D	CC90508 LCS	CC90508 LCS	04/09/19 16:04
19)	1	0409_18.D	xxxxxxxxxx		04/09/19 16:40
20)	1	0409_19.D	CC90508 BLANK	CC90508 BLANK	04/09/19 17:15
21)	1	0409_20.D	IA-4	CC90508	04/09/19 17:56
22)	1	0409_21.D	IA-4 DUP	CC90508 DUP	04/09/19 18:37
23)	1	0409_22.D	IA-7	CC90513	04/09/19 19:18
24)	1	0409_23.D	IA-1	CC90514	04/09/19 20:00
25)	1	0409_24.D	IA-2	CC90515	04/09/19 20:41
26)	1	0409_25.D	IA-3	CC90516	04/09/19 21:22
27)	1	0409_26.D	AA-DUP	CC90518	04/09/19 22:03
28)	1	0409_27.D	AA-1	CC90519	04/09/19 22:44
29)	1	0409_28.D	AA-2	CC90520	04/09/19 23:25
30)	1	0409_29.D	IA-10	CC90521	04/10/19 0:06
31)	1	0409_30.D	IA-DUP	CC90522	04/10/19 0:47
32)	1	0409_31.D	SS-3 5X	CC90509 5X	04/10/19 1:24
33)	1	0409_32.D	xxxxxxxxxx		04/10/19 2:02
34)	1	0409_33.D	SS-4 5X	CC90511 5X	04/10/19 2:40
35)	1	0409_34.D	SS-DUP 5X	CC90512 5X	04/10/19 3:18
36)	1	0409_35.D	SS-2 5X	CC90517 5X	04/10/19 3:56
37)	1	0409_36.D	SS-10 5X	CC90523 5X	04/10/19 4:33
38)	1	0409_37.D	SS-1 5X	CC90524 5X	04/10/19 5:11
39)	1	0409_38.D	xxxxxxxxxx		04/10/19 5:48
40)	1	0409_39.D	SS-7	CC90510	04/10/19 6:28
41)	1	0409_40.D	xxxxxxxxxx		04/10/19 7:09
42)	1	0409_41.D	BFB TUNE - CCAL 1	1ppb cc - 1ppb cc	04/10/19 7:47
43)	1	0409_42.D	xxxxxxxxxx		04/10/19 8:25
44)	1	0409_43.D	CC90523 LCS	CC90523 LCS	04/10/19 9:05
45)	1	0409_44.D	xxxxxxxxxx		04/10/19 9:43
46)	1	0409_45.D	xxxxxxxxxx		04/10/19 10:18
47)	1	0409_46.D	CC90523 BLANK	CC90523 BLANK	04/10/19 10:54
48)	1	0409_47.D	SS-3 75X	CC90509 75X	04/10/19 12:05
49)	1	0409_48.D	SS-4 75X	CC90511 75X	04/10/19 12:42
50)	1	0409_49.D	SS-DUP 75X	CC90512 75X	04/10/19 13:20
51)	1	0409_50.D	xxxxxxxxxx		04/10/19 13:57
52)	1	0409_51.D	SS-10 75X	CC90523 75X	04/10/19 14:35
53)	1	0409_52.D	SS-1 75X	CC90524 75X	04/10/19 15:12
54)	1	0409_53.D	xxxxxxxxxx		04/10/19 15:54
55)	1	0409_54.D	xxxxxxxxxx		04/10/19 16:32
56)	1	0409_55.D	SS-2 300X	CC90517 300X	04/10/19 17:09
57)	1	0409_56.D	SS-10 DUP 75X	CC90523 DUP 75X	04/10/19 17:47
58)	1	0409_57.D	xxxxxxxxxx		04/10/19 18:25

Injection Log

Data Directory: H:\AIR2019\CHEM24\01JAN\07\

Line	VI	FileName	SampleName	MscInfo	Injection Time
1)	1	0107_01.D	XXXXXXXXXX		01/07/19 16:54
2)	2	0107_02.D	XXXXXXXXXX		01/07/19 17:32
3)	3	0107_03.D	XXXXXXXXXX		01/07/19 18:10
4)	5	0107_04.D	XXXXXXXXXX		01/07/19 18:51
5)	7	0107_05.D	XXXXXXXXXX		01/07/19 19:29
6)	8	0107_06.D	XXXXXXXXXX		01/07/19 20:05
7)	9	0107_07.D	XXXXXXXXXX		01/07/19 20:41
8)	10	0107_08.D	XXXXXXXXXX		01/07/19 21:21
9)	11	0107_09.D	XXXXXXXXXX		01/07/19 22:02
10)	12	0107_10.D	XXXXXXXXXX		01/07/19 22:43
11)	13	0107_11.D	XXXXXXXXXX		01/07/19 23:24
12)	14	0107_12.D	XXXXXXXXXX		01/08/19 0:05
13)	15	0107_13.D	XXXXXXXXXX		01/08/19 1:05
14)	16	0107_14.D	XXXXXXXXXX		01/08/19 1:56
15)	17	0107_15.D	XXXXXXXXXX		01/08/19 2:37
16)	18	0107_16.D	XXXXXXXXXX		01/08/19 3:18
17)	19	0107_17.D	XXXXXXXXXX		01/08/19 3:59
18)	20	0107_18.D	XXXXXXXXXX		01/08/19 4:40
19)	21	0107_19.D	XXXXXXXXXX		01/08/19 5:21
20)	22	0107_20.D	CANISTER BLK 1405	CANISTER BLK 1405	01/08/19 10:33
21)	23	0107_21.D	XXXXXXXXXX		01/08/19 11:11
22)	24	0107_22.D	XXXXXXXXXX		01/08/19 11:49

Injection Log

Data Directory: H:\AIR2019\CHEM24\02FEB\05\

Line	VI	FileName	SampleName	MscInfo	Injection Time
1)	0	0206_08.D	XXXXXXXXXX		N/A
2)	0	0206_18.D	XXXXXXXXXX		N/A
3)	22	0204_21.D	XXXXXXXXXX		02/05/19 15:50
4)	3	0205_01.D	XXXXXXXXXX		02/05/19 16:45
5)	3	0205_02.D	XXXXXXXXXX		02/05/19 17:19
6)	4	0205_03.D	XXXXXXXXXX		02/05/19 17:53
7)	5	0205_04.D	XXXXXXXXXX		02/05/19 18:27
8)	4	0205_05.D	XXXXXXXXXX		02/05/19 19:01
9)	4	0205_06.D	XXXXXXXXXX		02/05/19 19:35
10)	5	0205_07.D	XXXXXXXXXX		02/05/19 20:10
11)	6	0205_08.D	XXXXXXXXXX		02/05/19 20:44
12)	8	0205_09.D	XXXXXXXXXX		02/05/19 21:18
13)	9	0205_10.D	XXXXXXXXXX		02/05/19 21:56
14)	10	0205_11.D	XXXXXXXXXX		02/05/19 22:31
15)	10	0205_12.D	XXXXXXXXXX		02/05/19 23:09
16)	12	0205_13.D	XXXXXXXXXX		02/05/19 23:43
17)	12	0205_14.D	XXXXXXXXXX		02/06/19 0:18
18)	13	0205_15.D	XXXXXXXXXX		02/06/19 0:57
19)	14	0205_16.D	XXXXXXXXXX		02/06/19 1:38
20)	15	0205_17.D	XXXXXXXXXX		02/06/19 2:42
21)	16	0205_18.D	XXXXXXXXXX		02/06/19 3:24
22)	16	0205_19.D	XXXXXXXXXX		02/06/19 3:58
23)	17	0205_20.D	XXXXXXXXXX		02/06/19 4:32
24)	18	0205_21.D	CANISTER BLK 1429	CANISTER BLK 1429	02/06/19 5:11
25)	19	0205_22.D	XXXXXXXXXX		02/06/19 5:51
26)	20	0205_23.D	XXXXXXXXXX		02/06/19 6:30
27)	21	0205_24.D	XXXXXXXXXX		02/06/19 7:11
28)	22	0205_25.D	XXXXXXXXXX		02/06/19 7:51
29)	23	0205_26.D	XXXXXXXXXX		02/06/19 8:31
30)	24	0205_27.D	XXXXXXXXXX		02/06/19 9:11
31)	25	0205_28.D	XXXXXXXXXX		02/06/19 10:04
32)	26	0205_29.D	XXXXXXXXXX		02/06/19 10:48
33)	27	0205_30.D	XXXXXXXXXX		02/06/19 11:24
34)	28	0205_31.D	XXXXXXXXXX		02/06/19 11:58
35)	29	0205_32.D	XXXXXXXXXX		02/06/19 12:38
36)	30	0205_33.D	XXXXXXXXXX		02/06/19 13:18
37)	31	0205_34.D	XXXXXXXXXX		02/06/19 13:53
38)	32	0205_35.D	XXXXXXXXXX		02/06/19 14:28
39)	33	0205_36.D	XXXXXXXXXX		02/06/19 15:06
40)	34	0205_37.D	XXXXXXXXXX		02/06/19 15:41
41)	35	0205_38.D	XXXXXXXXXX		02/06/19 16:16
42)	36	0205_39.D	XXXXXXXXXX		02/06/19 16:51
43)	37	0205_40.D	XXXXXXXXXX		02/06/19 17:26
44)	38	0205_41.D	XXXXXXXXXX		02/06/19 18:01
45)	39	0206_01.D	XXXXXXXXXX		02/06/19 18:35
46)	40	0206_02.D	XXXXXXXXXX		02/06/19 19:11
47)	41	0206_03.D	XXXXXXXXXX		02/06/19 19:48
48)	42	0206_04.D	XXXXXXXXXX		02/06/19 20:27
49)	43	0206_05.D	XXXXXXXXXX		02/06/19 21:04
50)	44	0206_06.D	XXXXXXXXXX		02/06/19 21:38
51)	45	0206_07.D	XXXXXXXXXX		02/06/19 22:12
52)	47	0206_09.D	XXXXXXXXXX		02/06/19 23:03
53)	48	0206_10.D	XXXXXXXXXX		02/07/19 0:24
54)	49	0206_11.D	XXXXXXXXXX		02/07/19 1:03
55)	50	0206_12.D	XXXXXXXXXX		02/07/19 1:42
56)	51	0206_13.D	XXXXXXXXXX		02/07/19 2:21
57)	52	0206_14.D	XXXXXXXXXX		02/07/19 3:00
58)	53	0206_15.D	XXXXXXXXXX		02/07/19 3:39
59)	54	0206_16.D	XXXXXXXXXX		02/07/19 4:18
60)	55	0206_17.D	XXXXXXXXXX		02/07/19 4:54

Injection Log

Data Directory: H:\AIR2019\CHEM24\03MAR\17\

Line	VI	FileName	SampleName	MscInfo	Injection Time
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3)	22	0317_02.D	XXXXXXXXXX		03/17/19 21:38
4)	23	0317_03.D	XXXXXXXXXX		03/17/19 22:13
5)	24	0317_04.D	XXXXXXXXXX		03/17/19 22:50
6)	25	0317_05.D	XXXXXXXXXX		03/17/19 23:23
7)	26	0317_06.D	XXXXXXXXXX		03/18/19 0:41
8)	27	0317_07.D	XXXXXXXXXX		03/18/19 1:13
9)	28	0317_08.D	XXXXXXXXXX		03/18/19 1:50
10)	29	0317_09.D	XXXXXXXXXX		03/18/19 2:27
11)	29	0317_10.D	XXXXXXXXXX		03/18/19 3:05
12)	30	0317_11.D	XXXXXXXXXX		03/18/19 3:42
13)	31	0317_12.D	XXXXXXXXXX		03/18/19 4:19
14)	32	0317_13.D	XXXXXXXXXX		03/18/19 4:57
15)	33	0317_14.D	XXXXXXXXXX		03/18/19 5:30
16)	34	0317_15.D	XXXXXXXXXX		03/18/19 6:02
17)	35	0317_16.D	XXXXXXXXXX		03/18/19 6:35
18)	36	0317_17.D	XXXXXXXXXX		03/18/19 7:07
19)	37	0317_18.D	XXXXXXXXXX		03/18/19 7:40
20)	39	0317_20.D	XXXXXXXXXX		03/18/19 10:31
21)	40	0317_21.D	XXXXXXXXXX		03/18/19 11:08
22)	41	0317_22.D	XXXXXXXXXX		03/18/19 11:45
23)	42	0317_23.D	XXXXXXXXXX		03/18/19 12:18
24)	43	0317_24.D	XXXXXXXXXX		03/18/19 12:51
25)	44	0317_25.D	XXXXXXXXXX		03/18/19 13:24
26)	45	0317_26.D	XXXXXXXXXX		03/18/19 14:45
27)	46	0317_27.D	XXXXXXXXXX		03/18/19 15:23
28)	47	0317_28.D	XXXXXXXXXX		03/18/19 16:00
29)	48	0317_29.D	XXXXXXXXXX		03/18/19 16:37
30)	49	0317_30.D	CANISTER BLK 1467	CANISTER BLK 1467	03/18/19 17:14
31)	50	0317_31.D	XXXXXXXXXX		03/18/19 17:48
32)	51	0317_32.D	XXXXXXXXXX		03/18/19 18:22
33)	52	0317_33.D	XXXXXXXXXX		03/18/19 19:00
34)	53	0317_34.D	XXXXXXXXXX		03/18/19 19:34
35)	54	0317_35.D	XXXXXXXXXX		03/18/19 20:05
36)	55	0317_36.D	XXXXXXXXXX		03/18/19 20:37
37)	56	0317_37.D	XXXXXXXXXX		03/18/19 21:19
38)	57	0317_38.D	XXXXXXXXXX		03/18/19 21:56
39)	58	0317_39.D	XXXXXXXXXX		03/18/19 22:38
40)	59	0317_40.D	XXXXXXXXXX		03/18/19 23:11
41)	60	0317_41.D	XXXXXXXXXX		03/18/19 23:45
42)	61	0317_42.D	XXXXXXXXXX		03/19/19 0:18
43)	62	0317_43.D	XXXXXXXXXX		03/19/19 0:52
44)	63	0317_44.D	XXXXXXXXXX		03/19/19 1:25
45)	64	0317_45.D	XXXXXXXXXX		03/19/19 1:58
46)	65	0317_46.D	XXXXXXXXXX		03/19/19 2:35
47)	66	0317_47.D	XXXXXXXXXX		03/19/19 3:12
48)	67	0317_48.D	XXXXXXXXXX		03/19/19 3:45
49)	68	0317_49.D	XXXXXXXXXX		03/19/19 9:25
50)	69	0317_50.D	XXXXXXXXXX		03/19/19 9:58
51)	70	0317_51.D	XXXXXXXXXX		03/19/19 15:24
52)	71	0317_52.D	XXXXXXXXXX		03/19/19 15:57

Injection Log

Data Directory: H:\AIR2019\CHEM24\03MAR\22\

Line	VI	FileName	SampleName	MscInfo	Injection Time
1)	0	0322_37.D	XXXXXXXXXX		N/A
2)	1	0322_01.D	XXXXXXXXXX		03/22/19 12:52
3)	2	0322_02.D	XXXXXXXXXX		03/22/19 13:26
4)	3	0322_03.D	XXXXXXXXXX		03/22/19 14:01
5)	4	0322_04.D	XXXXXXXXXX		03/22/19 14:39
6)	5	0322_05.D	XXXXXXXXXX		03/22/19 15:13
7)	6	0322_06.D	XXXXXXXXXX		03/22/19 15:45
8)	7	0322_07.D	XXXXXXXXXX		03/22/19 16:18
9)	8	0322_08.D	CANISTER BLK 1474	CANISTER BLK 1474	03/22/19 16:59
10)	9	0322_09.D	XXXXXXXXXX		03/22/19 18:58
11)	10	0322_10.D	XXXXXXXXXX		03/22/19 19:36
12)	11	0322_11.D	XXXXXXXXXX		03/22/19 20:13
13)	12	0322_12.D	XXXXXXXXXX		03/22/19 20:51
14)	13	0322_13.D	XXXXXXXXXX		03/22/19 21:28
15)	14	0322_14.D	XXXXXXXXXX		03/22/19 22:06
16)	15	0322_15.D	XXXXXXXXXX		03/22/19 22:39
17)	16	0322_16.D	XXXXXXXXXX		03/22/19 23:11
18)	17	0322_17.D	XXXXXXXXXX		03/22/19 23:49
19)	18	0322_18.D	XXXXXXXXXX		03/23/19 0:24
20)	19	0322_19.D	XXXXXXXXXX		03/23/19 1:01
21)	20	0322_20.D	XXXXXXXXXX		03/23/19 1:39
22)	21	0322_21.D	XXXXXXXXXX		03/23/19 2:16
23)	22	0322_22.D	XXXXXXXXXX		03/23/19 2:49
24)	23	0322_23.D	XXXXXXXXXX		03/23/19 3:41
25)	24	0322_24.D	XXXXXXXXXX		03/23/19 4:15
26)	25	0322_25.D	XXXXXXXXXX		03/23/19 4:49
27)	26	0322_26.D	XXXXXXXXXX		03/23/19 5:23
28)	27	0322_27.D	XXXXXXXXXX		03/23/19 5:58
29)	28	0322_28.D	XXXXXXXXXX		03/23/19 9:14
30)	29	0322_29.D	XXXXXXXXXX		03/23/19 9:51
31)	30	0322_30.D	XXXXXXXXXX		03/23/19 10:27
32)	31	0322_31.D	XXXXXXXXXX		03/23/19 11:03
33)	32	0322_32.D	XXXXXXXXXX		03/23/19 11:40
34)	33	0322_33.D	XXXXXXXXXX		03/23/19 12:16
35)	36	0322_35.D	XXXXXXXXXX		03/23/19 12:49
36)	37	0322_36.D	XXXXXXXXXX		03/23/19 13:23

APPENDIX C
Data Usability Summary Report

Data Usability Summary Report

Soil Vapor Intrusion Investigation
Former Imperial Cleaners Site
218 Lakeville Road
Lake Success, NY 11020
BCP Site # C130225

This Data Usability Summary Report (DUSR) has been prepared to validate the results of the sub-slab vapor, indoor air and ambient air sampling conducted in and around 218 Lakeville Road, Lake Success, NY on April 4-5, 2019 in association with a soil vapor intrusion (SVI) investigation, and in accordance with the NYSDEC-approved *Remedial Work Plan* (RWP) for the site (Walden, February 2019)

This DUSR has been prepared in accordance with NYSDEC Draft DER-10 Appendix 2B – Guidance for Data Deliverables and 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 was evaluated by Mr. Lawrence Zeman (Walden), whose experience and qualifications to prepare the DUSR for this project are presented in the attached resume (see Attachment A). The sub-slab vapor, indoor air and ambient air samples collected for laboratory analysis were submitted to Phoenix Environmental Laboratories, Inc. (Phoenix) of Manchester, NH, a NYSDOH Environmental Laboratory Approval Program (ELAP) certified laboratory (NY Lab Registration #11301), and analyzed for volatile organic compounds (VOCs) via U.S. Environmental Protection Agency (USEPA) Method TO-15 with the analytical detection limits set forth in the *Guidance for Evaluating Soil Vapor Intrusion in the State of New York* (dated October 2006, with updates, referred to herein as “SVI Guidance”). The DUSR process consisted of evaluating the analytical data package produced by Phoenix and answering the following questions.

1. Were there any component of the sampling protocol which deviated from established sampling procedures?

The sub-slab vapor, indoor air and ambient air samples were collected in laboratory-provided, individually certified 6-liter Summa[®] canisters equipped with flow regulators. The regulators were calibrated by the laboratory for a sampling period of 24 hours; this sampling duration was chosen in accordance with SVI Guidance for residential indoor air sampling to

reflect the typical exposure scenario. The sampling followed the established sampling procedures in the NYSDEC-approved February 2019 RWP for the Site.

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 RWP 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 (1) sample per ten (10) samples collected, with a minimum of one (1) 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, meeting the NYSDEC ASP Category B and USEPA CLP deliverables criteria requirements.

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 and QC data were reviewed. Duplicate sample analyses demonstrated a reasonable level of accuracy in the analytical results, and all of the QA/QC data met the protocol-required criteria with exceptions as noted below.

Two (2) duplicate QA/QC samples were run by the laboratory as part of their standard QA/QC program; a copy of the laboratory QA/QC report is included herein in Appendix B. The evaluation of the QA/QC data indicated that all laboratory control sample (LCS) recovery and sample duplicate relative percent difference (RPD) values were within required limits with the following exceptions:

- The RPD recovery for 4-Ethyltoluene, Cyclohexane, Ethanol, Heptane, Tetrachloroethane, Acetone and Carbon Disulfide exceeded the QA/QC acceptance criteria for 2 of the collected sample duplicates. The full analytical run is acceptable

due to the fact that field duplicate samples have the potential for higher RPD due to discrete sample differences.

- The LCS exceeded the QA/QC acceptance criteria for 1,2,4-Trichlorobenzene, Bromoform, Dibromochloromethane and Hexachlorobutadiene. All sample results for 1,2,4-Trichlorobenzene, Bromoform, Dibromochloromethane and Hexachlorobutadiene were below laboratory method detection limits (MDLs) and reported as less than the MDLs. Since all LCS associated outliers exceeded the upper acceptance criteria, any bias in the primary samples would be high and the potential for undetected analytes is low, thus the analytical batch is acceptable.
- The LCS exceeded the QA/QC acceptance criteria for Ethanol. Ethanol is a prevalent compound in the laboratory environment and elevated quality control results are not uncommon. Since Ethanol exceeded the upper acceptance criteria, any bias in the primary samples would be high and the potential for undetected analytes is low, thus the analytical batch is acceptable.

In summary, although analytes from the QA/QC sample data did not meet all 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 of Methods for the Determination of Toxic Organic Compounds in Ambient Air: Method TO-15* (Second Edition, January 1999). The review of the laboratory deliverables indicated that the analytical data for this project were 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 Analytical Services Protocol (ASP) 95 revised guidelines.

8. Have the minimum reporting limits been met?

The minimum reporting limits specified in the February 2019 RWP are as follows:

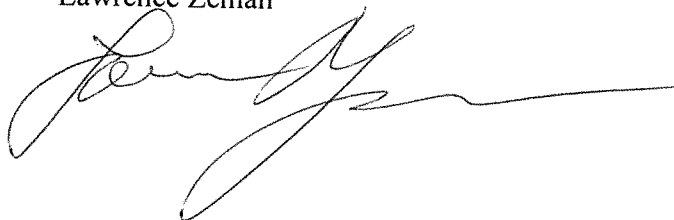
- All VOCs in sub-slab soil vapor samples: 1.0 ug/m³
- For the indoor and outdoor air samples:
 - 0.20 ug/m³ for trichloroethene (TCE), carbon tetrachloride, cis-1,2-dichloroethene, 1,1-dichloroethene, and vinyl chloride
 - 1.0 ug/m³ for all other VOCs in the USEPA Method TO-15 analysis.

The laboratory utilized reporting limits of 0.25 µg/m³ for tetrachloroethene (PCE), 0.20 µg/m³ for TCE, cis-1,2-DCE, 1,1-DCE, vinyl chloride, and carbon tetrachloride, and 1.0 µg/m³ for all other reportable VOCs which meets the minimum required reporting limits for all samples collected on April 4-5, 2019.

Summary

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 significant 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:
Lawrence Zeman



Attachment A

Resume of Environmental Professional



Lawrence F. Zeman Project Scientist II

Lawrence has 20 years of environmental and lab consulting experience, taking on difficult laboratory issues and QA/QC. He is very well versed in areas as diverse as regulatory compliance, test protocol development and implementation, management of instrument repair and maintenance, field inspections and on-site audits, correlation studies of various analyses and engineering/technical reporting.

SELECTED RELEVANT EXPERIENCE

Various Clients, New York

EDUCATION

*B.A. Biology, Minor in
Chemistry* Queens College

LICENSES/ CERTIFICATIONS

New York State ELAP
Laboratory Director

New York State ELAP
Laboratory Microbiology
Assistant Director

New York Department of
Health Laboratory
Technologist

OSHA HAZWOPER 40-hour
& OSHA 10-hour Certified

- Performed sample collection of various sample types at industrial facilities and construction & remediation project sites;
Conducted soil sample collection, field activities oversight and continuous air monitoring for Community Air Monitoring Program (CAMP) in accordance with DER-10 as follows:
 - Elmhurst Tank Park & Playground, Queens, NY (2009 – 2011);
 - Calvert Vaux Park and Athletic Fields, Brooklyn, NY (2009 – 2011), as an Independent Environmental Monitor (IEM) on-site technician;
 - Harlem Rive Greenway, Bronx, NY (2011 – 2012);
 - Beach Channel H.S. Athletic Fields (2016);
 - P.S. 63M William McKinley School, Manhattan, NY (2016);
 - P.S. 131 Abigail Adams Public School, Queens, NY (2017);
 - Forest Hills High School, Queens, NY (2017)
- Developed and implemented new testing protocols and test procedures;
- Conducted instrumentation repair and scheduled maintenance;
- Conducted correlation studies of various analytic procedures;
- Verified laboratory Quality Assurance and Quality Control procedures and data;
- Responsible for regulatory compliance and quality control;
- Prepared and submitted facilities' annual Zoning Performance Standards Compliance Reports, including noise, vibration, odor and opacity testing for DSNY permit renewal;
- Provided environmental services to ensure compliance for facility's NYS DEC Title V Air Facility Permit. Completed monthly, semi-annual and annual compliance reports;
- Conducted field Inspections and on-site audits;
- Performed field measurements and recording of Noise and Vibration;
- Prepared Engineering & Technical Reports;
- Prepared New York City Community Right-To-Know Law and SARA reports for Industrial facilities

APPENDIX D
Photolog

Appendix D
SVI Investigation Photographs
218 Lakeville Road, Lake Success, NY



Photo #1: Representative view of helium test on sub-slab vapor probe



Photo #2: Sub-slab vapor sampling at 220 Lakeville Road (typical)



Photo #3: Indoor air sampling at 220 Lakeville Road (typical)



Photo #4: Concurrent indoor air and sub-slab vapor sampling at 218 Lakeville Road (typical)



Photo #5: Upwind ambient air sample and duplicate



Photo #6: Downwind ambient air sample



Photo #7: Utility markout prior to sub-slab sample probe installation at 5 University Place



Photo #8: Sub-slab sample probe installation at 5 University Place