G. C. Environmental, Inc.
CONSULTANTS CONTRACTORS

# Automobile Club of New York / AAA
# (Now Known AAA Northeast)
**WESTCHESTER, NEW YORK**

# Periodic Review Report
**(October 14, 2020 to October 14, 2021)**

**NYSDEC Site Number: 360095**

**Prepared for:**
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**DATED OCTOBER 16, 2021**

G. C. ENVIRONMENTAL, INC.
CONSULTANTS CONTRACTORS

**PROFESSIONAL ENGINEER CERTIFICATION**

I, Dean Devoe P.E., certify that I am currently a New York State registered professional engineer as defined in 6 NYCRR Part 375 and that this Periodic Review Report (PRR) was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the DER Technical Guidance for Site Investigation and Remediation (DER-10) and that all activities were performed in full accordance with the DER-approved work plan and any DER-approved modifications.

Signature, Registered Professional Engineer

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Printed Name, Registered Professional Engineer

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# TABLE OF CONTENTS

| | Page # |
|---|---|
| CERTIFICATION | |
| 1.0 INTRODUCTION | 1 |
| 1.1 Summary of Site Contamination and Remedial History | 1 |
| 1.2 Effectiveness of the Remedial Program and Compliance | 1 |
| 1.3 Recommendations | 2 |
| 2.0 SITE OVERVIEW | 2 |
| 2.1 Site Description | 2 |
| 2.2 Remedial History | 4 |
| 3.0 EVALUATION OF REMEDY PERFORMANCE, EFFECTIVENESS AND PROTECTIVENESS | 5 |
| 3.1 Performance | 5 |
| 3.2 Effectiveness | 5 |
| 3.3 Protectiveness | 5 |
| 4.0 IC/EC COMPLIANCE REPORT | 6 |
| 4.1 Institutional Controls | 6 |
| 4.2 Engineering Controls | 7 |
| 4.3 Corrective Measure | 8 |
| 4.4 IC/EC Certification | 8 |
| 5.0 MONITORING PLAN COMPLIANCE REPORT | 8 |
| 5.1 Components of the Monitoring Plan | 8 |
| 5.1.1 Cover System Monitoring | 8 |
| 5.1.2 Groundwater Monitoring | 9 |
| 5.1.3 Sampling Protocol | 9 |
| 5.1.4 Site-Wide Inspection | 9 |
| 5.2 Summary of Monitoring Data | 9 |
| 5.2.1 Summary of Cover System Monitoring | 9 |
| 5.2.2 Summary of Groundwater Monitoring | 9 |
| 5.2.3 Summary of Air Sampling Monitoring | 10 |
| 5.2.4 Inspections | 10 |
| 5.3 Comparison with Remedial Objectives | 11 |
| 5.4 Monitoring Deficiencies | 11 |
| 5.5 Conclusions and Recommendations for Changes | 12 |
| 6.0 OPERATION & MAINTENANCE PLAN COMPLIANCE REPORT | 12 |
| 6.1 General System Monitoring | 12 |
| 6.1.1 Process Monitoring | 12 |
| 6.1.2 Performance Monitoring | 13 |
| 6.1.3Compliance Monitoring | 13 |
| 6.1.3.1 Groundwater Level Monitoring | 13 |
| 6.1.3.2 Well Field Optimization | 13 |
| 6.1.3.3 Soil Sampling | 13 |
| 6.1.3.4 Data Evaluation | 13 |

6.1.3.5 Status Reporting 13
6.1.3.6SVE Shutdown Protocol 14
6.2 Summary of Operation & Maintenance Data 14
6.2.1 General System Monitoring 14
6.2.2.1 Process Monitoring 14
6.2.2.2 Performance Monitoring 14
6.2.2.3 Compliance Monitoring 14
6.2.2.3.1Groundwater Level Monitoring 14
6.2.2.3.2 Soil Sampling 15
6.2.2.3.3 Data Evaluation 15
6.2.2.3.4 Status Reporting 15
6.2.2.3.5 SVE Shutdown Protocol 15
7.0 OVERALL PRR CONCLUSIONS AND RECOMMENDATIONS 15
7.1 Compliance with SMP 15
7.2 Performance and Effectiveness of the Remedy 15
7.3 Future PRR Submittals 16
8.0 IC AND EC CERTIFICATION FORM 16

# LIST OF TABLES

Table 1: Summary of Air Samples Analytical Data Results
Table 2: Summary of Groundwater Samples Analytical Data Results
Table 3: Summary of PID Readings
Table 4: Summary of Groundwater Level Measurements
Table 5: Summary of Mass Removal / October 14, 2020-October 14, 2021

# LIST OF GRAPHICS

Graphic 1: Removed VOCs in Pounds / October 14, 2020-October 14, 2021
Graphic 2: Groundwater Sample Results for the Compounds of Tetrachloroethene and 1,1,1-Trichloroethane / September 22, 2021 & August 28, 2020

# LIST OF FIGURES

Figure 1: Basic SVE System/Air Sampling Diagram
Figure 2: Site Map
Figure 3: Exceedances Groundwater Sample Results

# LIST OF APPENDICES

Appendix A: NYSDEC Institutional and Engineering Controls Certification Form
Appendix B: SVE Inspection System/Cover System Monitoring Forms
Appendix C: Photolog
Appendix D: SVE System Evaluation Work Report

# Periodic Review Report

## 1.0 INTRODUCTION

This document is required as an element of the remedial program at Automobile Club of New York (hereinafter referred to as the Site) under the New York State Inactive Hazardous Waste Disposal Site Remediation Program administered by New York State Department of Environmental Conservation (NYSDEC). The Site was remediated in accordance with Order on Consent Index No. D3-0504-06-09, Site # 360095, which was executed on December 29, 2006.

This PRR covers the period October 14, 2020 thru October 14, 2021.

A Site Management Plan (SMP), dated April 2015, is in place for ongoing remedial activities. This PRR presents the results of monitoring activities outlined in the SMP.

### 1.1 Summary of Site Contamination and Remedial History

The Site was previously occupied by W.S. Verplanck Coal, Feed & Building Materials, lumber sheds, Yonkers Fuel & Builders Corp. for coal storage, a gasoline tank on the southern portion of the Site which were used by Yonkers Builders Supply Co, and as a factory by Melrose Salvage Co. for the collecting, baling and shipping of wastepaper. The Site has been utilized as an automotive repair facility since 1975.

The Site was remediated in accordance with the NYSDEC-approved SC/IRM Work Plan, dated May 11, 2007.

An Interim Remedial Measure (IRM) was conducted in 2009 which consisted of excavating contaminated soil exceeding restricted commercial SCOs to a depth of 4.5 feet in the area by the former dry well.

The IRM remedial activities were completed at the Site in January 2009 as detailed in Section 2.2.

### 1.2 Effectiveness of the Remedial Program and Compliance

The remedial activities completed at the Site have been effective, based on the results of air/groundwater/soil monitoring.

No areas of non-compliance with the SMP have been identified.

### 1.3 Recommendations

Groundwater sampling results were compared with the previous sampling results. The summary below shows that contaminants of concern at each well have not deviated significantly, therefore GCE recommends groundwater sampling events can be discontinued (See table 2.3).

Based on air sample results, it appears that the SVE system is effectively removing VOCs, but the requirement listed in the SVE work plan is not achieved in that period. Therefore, GCE recommended further investigation of potential strategies to improve the SVE performance.

GCE does not recommend any change to the frequency for submittal of PRRs.

The requirements for discontinuing site management have not been met at this time.

## 2.0 SITE OVERVIEW

### 2.1 Site Description

The Site is located at 101 Westmoreland Avenue, White Plains, Westchester County, New York and is identified as Block 1, Lot 1 in the City of White Plains, Westchester County. The Site is situated on an approximately 0.206-acre area bounded by Metro North Railroad tracks to the north, Westmoreland Avenue/commercial property – 90 Westmoreland Avenue to the south, commercial property – 87 Westmoreland Avenue to the east, and multi-story residential property – 121 Westmoreland Avenue to the west (see Figure 1).

- Site Characterization and Interim Remedial Measures (IRM) Work Plan, dated May 11, 2007 (the SC/IRM Work Plan.).

- Revised Site Characterization Report, dated November 11, 2013 (the SC Report).

Below is a summary of site conditions when the RI was performed in 2007 through 2009.

<u>Soil</u>

- In 2007, soil surrounding the former dry well was further delineated and additional borings were installed and sampled at the Site. Six (6) soil borings, B-12 through B-17 were installed in that area and soil samples from these borings were analyzed. The results from B-12, advanced through the concrete pad covering the former dry well (6 inches away from B-1), detected PCE at 14 mg/kg. All other samples were either non-detect or below standards except for B-15 and B-14, which contained low concentrations of PCE. The sampling also determined that the area by the former dry well contained old fill material in the top two (2) feet. In 2008, three additional soil borings were installed, B-18

through B-20. Soil samples from soil borings B-12 through B-20 were obtained and analyzed. All the samples were either non-detected or detected below the regulatory standards.

- In January 2009, the IRM was conducted which included excavating contaminated soil from the area of the former dry well. In February and March 2009, as part of the SC investigation, four (4) additional soil borings were installed (B-21 through B-24) in the parking lot on the northeast side of the Site. Petroleum hydrocarbons found in soil samples from B21 through B-24 were mostly below regulatory standards. Soil samples from B-23 and B-24 contained a few SVOCs, (benzo(a) anthracene, Benzo (b)fluoranthene, benzo(k)fluoranthene and chrysene), above regulatory standards but only in the fill material (0 to 3 feet below grade). The soil below this interval was found to be clean.

Site-Related Groundwater

Groundwater samples from the central portion of the Site located close to and down-gradient from the dry well contained PCE and its breakdown products, but at concentrations below 5 ug/l, which is the applicable groundwater standard. Concentrations of PCE were found to increase to the north and east and were highest in MW-6 and MW-9 (13 to 27 ug/l) along the northern boundary and in MW-2 and MW-3 (16 to 20 ug/l) along the eastern boundary of the Site. These data indicate that the main source(s) of PCE in groundwater are located off-site. 1,1,1-TCA and its breakdown products (1,1-DCA and 1,1-DCE) increase to the east and southwest and are highest in MW-2 (57 ug/l) along the eastern boundary of the Site and in MW-7 and MW-8 (100 to 240 ug/l) along the southwestern boundary of the Site. This data along with the soil vapor data discussed in the next section, are indicative of 1,1,1-TCA originating off-site.
During the last sampling round of the SC work in 2009, petroleum hydrocarbons were found in MW-9, located down-gradient of the removed USTs. However, the concentration of BTEX (2 ug/l) was detected below groundwater standards. This data indicated that the source of petroleum contamination was most likely the former/removed USTs that were located near soil boring B-5. The data also indicated that the petroleum plume was limited and moving slowly in the northwest direction, along the general direction of groundwater flow. The area beneath the building was essentially clean of petroleum products by 2009. During the 2009 SC investigation, petroleum hydrocarbons were detected in the groundwater sample taken from soil boring B-21, located in the parking lot along the northern boundary, about 25 feet to the east and cross-gradient of the location of the former UST area. The total BTEX concentrations (2 ug/l) were far below the groundwater standard, but the sample did contain concentrations of 1,2,4-trimethylbenzene (23 ug/l), 1,3,5-trimethylbenzene (12 ug/l) and naphthalene (64 ug/l) all of which exceed their respective groundwater standard. The source of this impact is not known and most likely is located off-site on property located to the north of the Site.

Site-Related Soil Vapor Intrusion

Low BTEX concentrations, ranging between 40.38 and 247.26 mcg/$m^3$ were detected in the soil vapor samples and in the indoor and outdoor ambient air samples conducted as part of the 2009 SC. Concentrations of BTEX detected in the deep soil vapor probe SS-7. SS-7 is located down-gradient of the removed USTs. The concentration of 1,1,1-TCA detected in SS-9 indicates that 1,1,1-TCA most likely originated from up-gradient off-site sources. In addition, SS-9 contained breakdown products of 1,1,1-TCA, namely 1,1-DCE (83.37 ug/$m^3$) and 1,1-DCA (33.22 ug/$m^3$), which were not detected in any other soil vapor samples. The PCE concentration detected in SS-9 was also elevated, suggesting an off-site (up-gradient) contribution of PCE to the groundwater. The concentration of PCE (6,785 ug/$m^3$) in SS-3 indicates that potential source of PCE is located in the area of SS-3, which is proposed to be addressed by installation of the SVE system in this area.

The results of the 2009 SC investigation found that the former dry well was a small local source of chlorinated solvents from historical operations.

Underground Storage Tanks

- In 2007, the 550-gallon waste oil UST was tightness tested, closed, and abandoned in place.

## 2.2 Remedial History

The Site was remediated in accordance with the NYSDEC-approved SC/IRM Work Plan, dated May 11, 2007.

The following is a summary of the Remedial Actions performed at the Site:

1. Excavation of soil/fill exceeding restricted commercial SCOs to a depth of 4.5 feet in the area by the former dry well.

2. Development and implementation of a SMP for long term management of remaining contamination as required by the Environmental Easement, which includes plans for: (1) ICs and ECs, (2) monitoring, (3) operation and maintenance and (4) reporting;

3. Installation of the soil vapor extraction (SVE) system.

The IRM remedial activities were completed at the Site in January 2009.

# 3.0 EVALUATION OF REMEDY PERFORMANCE, EFFECTIVENESS AND PROTECTIVENESS

This section describes the measures for evaluating the performance and effectiveness of the remedy to reduce or mitigate contamination at the Site. The implemented remedy includes source removal, construction, and maintenance of a soil cover system, install SVE unit system. The implemented remedy includes SVE system monitoring, construction and maintenance of a soil cover system, and groundwater monitoring.

## 3.1 Performance

In 2007 the 550-gallon waste oil UST was tightness tested, closed, and abandoned in place.

The contaminated soil removal was accomplished through an IRM that removed the contaminated soil to the depth of approximately 4.5 feet in the area of the dry well.

The SVE was installed at the exterior rear of the building at the western portion of the Site adjacent to the exterior auto detailing area.

An Environmental Easement was filed that will require compliance with the SMP and the ECs and ICs.

## 3.2 Effectiveness

The cover system is a permanent control, and the quality and integrity of this system is inspected at defined, regular intervals. Exposure to remaining contamination in soil/fill at the Site is prevented by a soil cover system placed over the Site. Soil vapor sampling is performed on a periodic basis to assess the performance of the remedy.

Groundwater monitoring is also performed on a periodic basis to assess the performance of the remedy. All monitoring well sampling activities are recorded in a field book and a groundwater-sampling log. Other observations (e.g., well integrity, etc.) is noted on the well sampling log. The well sampling log serves as the inspection form for the groundwater monitoring well network.

## 3.3 Protectiveness

The implemented remedy achieves the remedial action objective to protect human health and the environment. The impacted soil removed during the source removal action was transported offsite for disposal at a permitted disposal facility. This action of removing the impacted material from the Site effectively removed the source of contamination from the environment and eliminated human exposure.

Groundwater sampling and analysis is performed to monitor the concentration of residual compounds in groundwater at the Site. The results of the sampling and analysis indicate that the contamination is likely from offsite sources.

The results further indicate the concentrations of VOCs in onsite groundwater have been substantially reduced compared to historical levels. These conditions indicate it is unlikely that VOCs have migrated or will migrate offsite. Human exposure is not an issue due to the absence of a pathway for human contact with, or use of, the impacted groundwater under the conditions of the restricted commercial use of the Site.

# 4.0 IC/EC COMPLIANCE REPORT

## 4.1 Institutional Controls

A series of ICs is required to: (1) implement, maintain and monitor EC systems; (2) prevent future exposure to remaining contamination by controlling disturbances of the subsurface contamination; and, (3) limit the use and development of the Site to commercial or industrial use only. Adherence to these ICs on the Site will be required by the Environmental Easement and will be implemented under this SMP. These ICs are:

- Compliance with the Environmental Easement and this SMP by the Grantor and the Grantor's successors and assigns;
- All ECs must be operated and maintained as specified in this SMP;
- All ECs on the Controlled Property must be inspected at a frequency and in a manner defined in the SMP.
- Soil vapor and other environmental or public health monitoring must be performed as defined in this SMP;
- Data and information pertinent to Site Management of the Controlled Property must be reported at the frequency and in a manner defined in this SMP;

ICs that are identified in the Environmental Easement may not be discontinued without an amendment to or extinguishment of the Environmental Easement.

The Site has a series of ICs in the form of site restrictions. Adherence to these ICs will be required by the Environmental Easement. Site restrictions that apply to the Controlled Property are:

- The property may only be used for commercial or industrial use provided that the long-term ECs and ICs included in this SMP are employed.

- The property may not be used for a higher level of use, such as unrestricted and restricted residential use, without additional remediation and amendment of the Environmental Easement, as approved by the NYSDEC;

- All future activities on the property that will disturb remaining contaminated material must be conducted in accordance with this SMP;

- The use of the groundwater underlying the property is prohibited without treatment rendering it safe for intended use;

- The potential for vapor intrusion must be evaluated for any buildings developed on site, and any potential impacts that are identified must be monitored or mitigated;

- Vegetable gardens and farming on the property are prohibited;

- The site owner or remedial party will submit to NYSDEC a written statement that certifies, under penalty of perjury, that: (1) controls employed at the Controlled Property are unchanged from the previous certification or that any changes to the controls were approved by the NYSDEC; and, (2) nothing has occurred that impairs the ability of the controls to protect public health and environment or that constitute a violation or failure to comply with the SMP. NYSDEC retains the right to access such Controlled Property at any time in order to evaluate the continued maintenance of any and all controls. This certification shall be submitted annually, or an alternate period of time that NYSDEC may allow and will be made by an expert that the NYSDEC finds acceptable.

## 4.2 Engineering Controls

Soil Cover

Exposure to remaining contamination in soil/fill at the Site is prevented by a soil cover system placed over the Site. The building slab and pavement will act as a site cover for residual contaminated soils that exceed soil clean up objectives for the site use.

The Excavation Work Plan outlines the procedures required to be implemented in the event the cover system is breached, penetrated, or temporarily removed, and any underlying remaining contamination is disturbed. Procedures for the inspection and maintenance of this cover are provided in the Monitoring Plan included in Section 4 of the SMP.

Soil Vapor Extraction System

Since contaminated soil vapor exists beneath the Site, an EC is required to protect human

Since contaminated soil vapor exists beneath the Site, an EC is required to protect human health and the environment. The Site has the following primary ECs, as described in the followings.

### 4.3 Corrective Measures

The IC/EC described above are fully in place and effective. Therefore, no corrective measures are proposed at this time.

### 4.4 IC/EC Certification

The NYSDEC Institutional and Engineering Controls (IC/EC) Certification Form is provided as Appendix A.

## 5.0 MONITORING PLAN COMPLIANCE REPORT

### 5.1 Components of the Monitoring Plan

The Monitoring Plan describes the measures for evaluating the performance and effectiveness of the remedy to reduce or mitigate contamination at the Site, the soil cover system, and all affected Site media identified below. The SMP contains details of the Site Monitoring Plan. Components of the monitoring plan are summarized below.

**Table: Monitoring/Inspection Schedule**

| Monitoring Program | Frequency* | Matrix | Analysis |
|---|---|---|---|
| SVE System | Monthly | SVE Technician | Field |
| Cover System | Monthly | Field Technician | Field |
| Groundwater | Quarterly for 1st year, semiannually thereafter, annually since September 2018 | Groundwater | VOCs/SVOCs |

*The frequency of events will be conducted as specified until otherwise approved by NYSDEC and NYSDOH.

#### 5.1.1 Cover System Monitoring

The cover system is a permanent control and the quality and integrity of this system will be inspected at defined, regular intervals. Exposure to remaining contamination in soil/fill at the Site is prevented by a soil cover system placed over the Site. The building slab and pavement act as a site cover for residual contaminated soils that exceed soil clean up objectives for the site use.

### 5.1.2 Groundwater Monitoring

Groundwater monitoring was performed on a periodic basis to assess the performance of the remedy.

The network of monitoring wells has been installed to monitor both up-gradient and down-gradient groundwater conditions at the Site. The network of on-site wells has been designed based on the following criteria:
The sampling frequency may be modified with the approval NYSDEC. The SMP will be modified to reflect changes in sampling plans approved by NYSDEC.

Groundwater monitoring frequency has changed as annually since September 2018 with an approval of the NYSDEC.

### 5.1.3 Sampling Protocol

All monitoring well sampling activities were recorded in a field book and a groundwater-sampling log.

### 5.1.4 Site-Wide Inspection

Site-wide inspections are performed on a regular schedule at a minimum of once a year.

## 5.2 Summary of Monitoring Data

### 5.2.1 Summary of Cover System Monitoring

The routine inspection of the cover system was conducted by GCE personnel. The building slab and pavement act as a site cover for residual contaminated soils that exceed soil clean up objectives for the site use. The cover system was not breached, penetrated or temporarily removed, and any underlying remaining contamination was not disturbed during the system inspection. Surficial cracks in the floor were observed near the remediation work area (Photo 12) but not at the SVE well location (Photo 11) and therefore are not contributing to any contaminant detections in the soil vapor (Please see attached Photolog).

### 5.2.2 Summary of Groundwater Monitoring

Groundwater monitoring data for 2021 and prior sampling events is summarized in Table 2. During 2021 sampling event, groundwater samples were collected at eight (8) existing monitoring well locations (MW-1 through MW-8) at the Subject Site. Due to limited access to the MW-9, groundwater sample was not able to be collected from this location.
The eight (8) on-site monitoring wells were sampled via disposable bailer and analyzed for VOCs/SVOCs. The results are compared to New York State Department of Environmental Conservation (NYSDEC)-Technical & Operational Guidance Series

(TOGS) Ambient Water Quality Standards. Figure 2 shows the monitoring well locations.

The lab analytical results dated September 22, 2021 were compared with the previous lab analytical results dated August 28, 2020 and findings are described as follows: The lab analytical results dated September 22, 2021 indicates that 1,1,1-Trichloroethane concentration in samples MW-4 and MW-7 increased, in samples MW-2, MW-3, and MW-8 were slightly decreased, and in sample MW-6 remained the same as previous year. Tetrachloroethene concentration in samples MW-2, MW-3, MW-5, MW-6, and MW-7 increased, in sample MW-8 decreased, and in sample MW-4 remained the same.

Based on the groundwater sample results in Table 2, no significant changes of VOCs or SVOCs concentrations were identified during this period.

### 5.2.3 Summary of Air Sampling Monitoring

Air samples were collected at four (4) locations in the SVE system: at the SVE system blower discharge (SP-1), at the discharge of the GAC vessel (SP-2) when the SVE system was running and at the each SVE wells (SV-1 and SV-2) taken at the repair shop area when the SVE system was shutdown. The air samples were collected using SUMMA canisters over an elapsed time of 1 hour with the exception in September 2021. Due to provided 2-hour regulator, September 2021 sampling was performed for 2-hours. The air samples were boxed and shipped to the Phoenix Environmental Laboratories (PEL), a New York State ELAP-approved laboratory for analysis of VOC using EPA Method TO-15. PID readings were 0.00 ppm at all sampling locations. Air samples were collected quarterly.

Within the approval of the NYSDEC, mass calculations were calculated based on the target compounds of 1,1,1-Trichloroethane, Tetrachloroethene, Trichloroethene and their break down compounds of 1,1-Dichloroethane, 1,1-Dichloroethene, Cis-1,2-Dichloroethene, Trans-1,2-Dichloroethene, and Vinyl Chloride.

Air samples were collected January 2021 at an average flow rate of approximately 50 cfm (approximately 72,000 cu. ft/day) the SVE system was estimated to be removing approximately 0.10 lbs of total VOC per period, in June 2021 approximately 0.46 lbs of total VOC per period, in September 2021 approximately 0.35 lbs of total VOC per period. See Table 1: Summary of Air Samples Analytical Data Results and Graphic 1.

### 5.2.4 Inspections

Inspections of all remedial components installed at the Site were conducted at the frequency specified in the SMP Monitoring Plan and Operation and Maintenance Plan of this SMP. At a minimum, a site-wide inspection was conducted annually. Inspections of remedial components will also be conducted when a breakdown of any treatment system component has occurred or whenever a severe condition has taken place, such as an

erosion or flooding event that may affect the ECs. Inspections were conducted in accordance with the procedures set forth in the Monitoring Plan of this SMP.

The Site Inspection Form and Soil Cover System Inspection Form are provided as Appendix B. Photographs taken during the inspection are provided in Appendix C. The results of the inspection and site monitoring data will be evaluated as part of the EC/IC certification.

### 5.3 Comparison with Remedial Objectives

The following discussion details the trends in each well for groundwater sampling and soil vapor points.

Groundwater samples were collected at eight (8) existing monitoring well locations (MW-1 through MW-8) at the Subject Site. The lab analytical results dated September 22, 2021 were compared with the previous lab analytical results dated August 28, 2020 and findings are described as follows: The lab analytical results dated September 22, 2021 indicates that 1,1,1-Trichloroethane concentration in samples MW-4 and MW-7 slightly increased, in samples MW-2, MW-3, and MW-8 was slightly decreased, and in sample MW-6 remained the same. Tetrachloroethene concentration in samples MW-2, MW-3, MW-5, MW-6, and MW-7 slightly increased, in sample MW-8 slightly decreased, and in sample MW-4 remained the same.

Based on the sample results, it is identified that no significant changes with VOCs concentrations in groundwater and a few SVOCs compounds were slightly detected in MW-1 and MW-4 as shown in Table 2: Summary of Groundwater Samples Analytical Data Results and Graphic 2.

Air samples were collected at four (4) locations in the SVE system: at the SVE system blower discharge (SP-1), at the discharge of the GAC vessel (SP-2) and at the each SVE wells (SV-1 and SV-2) taken at the repair shop area. Air samples were collected January 2020 at an average flow rate of approximately 50 cfm (approximately 72,000 cu. ft/day) the SVE system was estimated to be removing approximately 0.10 lbs of total VOC per period; in June 2021 approximately 0.46 lbs of total VOC per period; in September 2021 approximately 0.35 lbs of total VOC per period. See Table 1: Summary of Air Samples Analytical Data Results and Graphic 1. Based on these results, it appears that the SVE system is removing VOCs.

In addition, due to termination of the existing SVE system as listed in the SVE system was not achieved this year, SVE system evaluation was discussed with the NYSDEC and NYSDOH and with the NYSDEC/NYSDOH concordance, SVE system evaluation work was performed on March 30 and April 2, 2021 by collecting fourteen (14) air samples; twelve (12) sub-slab (SS-1 thru SS-12), one (1) indoor air (IA-1) and one (1) outdoor air (OA-1) after system shut down for a period of two weeks and prior heating season ended (The SVE Evaluation report is in Appendix D).

### 5.4 Monitoring Deficiencies

Due to MW-9 were not accessible, no sampling was performed at this location. The trailer located on the MW-9 could not be moved during 2021 sampling events.

### 5.5 Conclusions and Recommendations for Changes

Groundwater sampling results were compared with the previous sampling results.

Groundwater sampling results were compared with the previous sampling results. Based on sampling results presented in section 1.3. GCE recommends that groundwater sampling events can be discontinued.

Based on air sample results, it appears that the SVE system is removing VOCs, but the requirement listed in the SVE work plan was not achieved in that period. GCE recommended further investigation of potential strategies to improve the SVE performance was performed. The SVE Evaluation report is pending.

## 6.0 OPERATION & MAINTENANCE PLAN COMPLIANCE REPORT

This Operation and Maintenance Plan describes the measures necessary to operate, monitor and maintain the mechanical components of the remedy selected for the Site. This Operation and Maintenance Plan.

- Includes the steps necessary to allow individuals unfamiliar with the Site to operate and maintain the SVE system;
- Includes an operation and maintenance contingency plan; and,
- Will be updated periodically to reflect changes in site conditions or the manner in which the SVE systems are operated and maintained.

### 6.1 General System Monitoring

The general system operations include routine process monitoring, performance monitoring, and compliance monitoring.

#### 6.1.1 Process Monitoring

Process monitoring includes measurement of flow rates, vacuums/pressures, vapor concentrations, within the SVE process streams.

### 6.1.2 Performance Monitoring

Vapor concentrations are measured in the SVE process via field PID measurement and/or vapor samples for laboratory analysis. Vapor concentrations, vacuums/pressures, flow rates, temperatures are measured at wellheads and vapor probes. The performance monitoring data is used in conjunction with the process monitoring data to estimate the vapor mass removal rates, total mass removed by the SVE system, and provide data regarding vapor concentrations remaining in the subsurface.

### 6.1.3 Compliance Monitoring

Compliance monitoring data has a specific purpose to satisfy the air and water discharge permit requirements.

#### 6.1.3.1 Groundwater Level Monitoring

A key aspect to the operation strategy will be regular monitoring of the Site groundwater levels.

#### 6.1.3.2 Well Field Optimization

VOC mass removal rates are maximized as much as possible by focusing on SVE wells within areas of higher vapor concentration/vapor production.

#### 6.1.3.3 Soil Sampling

Soil cores are collected and field-screened for total organic vapors at discrete intervals using a PID and jar vapor-headspace methods. Screening results will be considered when selecting the soil interval to be submitted for laboratory analysis of VOCs by USEPA Method 8260. No soil samples were collected during this period.

#### 6.1.3.4 Data Evaluation

Process and performance monitoring data will be entered into a spreadsheet to track trends in the data.

#### 6.1.3.5 Status Reporting

General status reporting will be conducted on a quarterly basis. The status reports will detail: Total mass removed, Process parameters recorded during site visits and downloaded via the telemetry system, flow, pressure, vacuum, and total VOC measurements collected in the field at the SVE wellheads, soil temperatures and heating performance, laboratory sample results and the associated laboratory and data validation reports, SVE discharge monitoring results, any system outages and corrective measures taken, scheduled maintenance, reconfiguration, or system optimization events.

#### 6.1.3.6 SVE Shutdown Protocol

Determination of when the remedial objectives have been met will be based on air samples collected from soil vapor monitoring points and soil vapors collected in all the sub slab area.

## 6.2 Summary of Operation & Maintenance Data

### 6.2.1 General System Monitoring

The general system operations included routine process monitoring, performance monitoring, and compliance monitoring were in place.

During January 2021 inspection, it was identified that one of the vacuum at the system blower was not working. It appeared that the water in the system`s knock out (KO) drum was frozen and prevented working of the system vacuum properly. The gauge on inlet pipe to moisture drum was not working and was fixed. Moisture drum on the system was half full with frozen water. Frozen water was defrosted and removed from the drum.

During September 2021 inspection, it was identified that one of the vacuum at the system blower was not working. The gauge on inlet pipe to moisture drum was not working and needs to be fixed.

#### 6.2.2.1 Process Monitoring

Process monitoring includes measurement of flow rates, vacuums/pressures, and vapor concentrations, within the SVE process streams were performed. System Operational Inspection logs are in place and are maintained (Appendix B).

#### 6.2.2.2 Performance Monitoring

Measurement of vapor concentrations in the SVE process were performed with PID readings and collecting air samples. Measurement of vapor concentrations, vacuums/pressures, flow rates, temperatures at wellheads and vapor probes were performed.

#### 6.2.2.3 Compliance Monitoring

An air emissions permit was obtained from the WCDH. Wastewater was placed in drums and will be disposed off according to the regulatory requirements.

#### 6.2.2.3.1 Groundwater Level Monitoring

Groundwater level measurements in all the on-site monitoring wells were conducted. Depth to groundwater was measured using a Solinst oil/water interface probe equipped

with a fiberglass measuring tape (Table 5).

#### 6.2.2.3.2 Soil Sampling

During this period, no soil samples were collected.

#### 6.2.2.3.3 Data Evaluation

Process and performance monitoring data were entered into a spreadsheet to track trends in the data (Appendix B).

#### 6.2.2.3.4 Status Reporting

General status reporting was conducted on a quarterly basis and sent to NYSDEC. The report includes total mass removed, process parameters recorded during site visits and downloaded via the telemetry system, flow, pressure, vacuum, and total VOC measurements collected in the field at the SVE wellheads, soil temperatures and heating performance, laboratory sample results and the associated laboratory and data validation reports, SVE discharge monitoring results, any system outages and corrective measures taken, scheduled maintenance, reconfiguration, or system optimization events.

#### 6.2.2.3.5 SVE Shutdown Protocol

Determination of when the remedial objectives have been met will be based on air samples collected from soil vapor monitoring points and soil vapors collected in all the sub slab area. Table 5: Summary of Mass Removal.

As we were unable to achieve the desired results listed in the SVE work plan dated 2015, GCE prepared SVE system evaluation work plan to assist to determine the current site condition and move forward with a new strategy.

# 7.0 OVERALL PRR CONCLUSIONS AND RECOMMENDATIONS

## 7.1 Compliance with SMP

All requirements of the SMP (IC/EC, monitoring) have been complied with for the reporting.

## 7.2 Performance and Effectiveness of the Remedy

The results of the groundwater monitoring suggest that overall groundwater quality is stable during the past four monitoring periods. Groundwater analytical results further suggest that the remedial objective to minimize or eliminate exposure pathways or significant risks to the public or the environment under the conditions of the contemplated use of the Site (i.e. Restricted Commercial) have been satisfied. Therefore, the remedy continues to achieve remedial goals established for this Site.

The results of air samples suggest that overall, the SVE system is successfully removing contaminants however the target objectives have not yet been achieved.

### 7.3 Future PRR Submittals

The frequency of submittal of future PRRs will remain on an annual basis.

## 8.0 IC AND EC CERTIFICATION FORM

The NYSDEC Institutional and Engineering Control Certification Form for the Site is presented in Appendix A.

# LIST OF TABLES

## Table 1-1-Air Sampling Results

**G. C. Environmental, Inc.**
**101 Westmoreland Avenue,**
**White Platins, NY 10606**

**GCE Project No:05-003-00**

| | Lab Sample Id | | CH46334 | | CH46335 | | CH46336 | | CH46337 | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Collection Date | | 1/12/2021 | | 1/12/2021 | | 1/12/2021 | | 1/12/2021 | |
| | Client Id | | SV-2 | | SP-1 | | SP-2 | | SV-1 | |
| | Matrix | | Air | | Air | | Air | | Air | |
| | CAS | Units | Result | RL | Result | RL | Result | RL | Result | RL |
| **Volatiles (TO15) By TO15** | | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | 630-20-6 | ug/m3 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 |
| 1,1,1-Trichloroethane | 71-55-6 | ug/m3 | 24.5 | 1.00 | 22.2 | 1.00 | < 1.00 | 1.00 | 18.4 | 1.00 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | ug/m3 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 |
| 1,1,2-Trichloroethane | 79-00-5 | ug/m3 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 |
| 1,1-Dichloroethane | 75-34-3 | ug/m3 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 |
| 1,1-Dichloroethene | 75-35-4 | ug/m3 | < 0.20 | 0.20 | < 0.20 | 0.20 | 0.21 | 0.20 | < 0.20 | 0.20 |
| 1,2,4-Trichlorobenzene | 120-82-1 | ug/m3 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 |
| 1,2,4-Trimethylbenzene | 95-63-6 | ug/m3 | 27.9 | 1.00 | 7.62 | 1.00 | 12.3 | 1.00 | 65.8 | 1.00 |
| 1,2-Dibromoethane(EDB) | 106-93-4 | ug/m3 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 |
| 1,2-Dichlorobenzene | 95-50-1 | ug/m3 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 |
| 1,2-Dichloroethane | 107-06-2 | ug/m3 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 |
| 1,2-dichloropropane | 78-87-5 | ug/m3 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 |
| 1,2-Dichlorotetrafluoroethane | 76-14-2 | ug/m3 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 |
| 1,3,5-Trimethylbenzene | 108-67-8 | ug/m3 | 7.07 | 1.00 | 2.58 | 1.00 | 2.82 | 1.00 | 18 | 1.00 |
| 1,3-Butadiene | 106-99-0 | ug/m3 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 |
| 1,3-Dichlorobenzene | 541-73-1 | ug/m3 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 |
| 1,4-Dichlorobenzene | 106-46-7 | ug/m3 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 |
| 1,4-Dioxane | 123-91-1 | ug/m3 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 |
| 2-Hexanone(MBK) | 591-78-6 | ug/m3 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 |
| 4-Ethyltoluene | 622-96-8 | ug/m3 | 23.1 | 1.00 | 6.39 | 1.00 | 10.3 | 1.00 | 58.5 | 1.00 |
| 4-Isopropyltoluene | 99-87-6 | ug/m3 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 |
| 4-Methyl-2-pentanone(MIBK) | 108-10-1 | ug/m3 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 |
| Acetone | 67-64-1 | ug/m3 | 57.2 | 1.00 | 12.4 | 1.00 | 20 | 1.00 | 2,990 | 75.0 |
| Acrylonitrile | 107-13-1 | ug/m3 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 |
| Benzene | 71-43-2 | ug/m3 | 6.23 | 1.00 | < 1.00 | 1.00 | 1.86 | 1.00 | 66.7 | 1.00 |
| Benzyl chloride | 100-44-7 | ug/m3 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 |
| Bromodichloromethane | 75-27-4 | ug/m3 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 |
| Bromoform | 75-25-2 | ug/m3 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 |
| Bromomethane | 74-83-9 | ug/m3 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 |
| Carbon Disulfide | 75-15-0 | ug/m3 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 |
| Carbon Tetrachloride | 56-23-5 | ug/m3 | 0.38 | 0.20 | 0.27 | 0.20 | < 0.20 | 0.20 | 0.35 | 0.20 |
| Chlorobenzene | 108-90-7 | ug/m3 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 |
| Chloroethane | 75-00-3 | ug/m3 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 |
| Chloroform | 67-66-3 | ug/m3 | < 1.00 | 1.00 | 1.65 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 |
| Chloromethane | 74-87-3 | ug/m3 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 |
| Cis-1,2-Dichloroethene | 156-59-2 | ug/m3 | < 0.20 | 0.20 | < 0.20 | 0.20 | < 0.20 | 0.20 | < 0.20 | 0.20 |
| cis-1,3-Dichloropropene | 10061-01-5 | ug/m3 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 |
| Cyclohexane | 110-82-7 | ug/m3 | 6.19 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 | 76.4 | 1.00 |
| Dibromochloromethane | 124-48-1 | ug/m3 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 |
| Dichlorodifluoromethane | 75-71-8 | ug/m3 | 1.92 | 1.00 | 1.21 | 1.00 | < 1.00 | 1.00 | 1.54 | 1.00 |
| Ethanol | 64-17-5 | ug/m3 | 30.7 | 1.00 | 9.74 | 1.00 | 3.99 | 1.00 | 427 | 74.9 |
| Ethyl acetate | 141-78-6 | ug/m3 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 |
| Ethylbenzene | 100-41-4 | ug/m3 | 13.5 | 1.00 | 2.07 | 1.00 | 4.6 | 1.00 | 69.9 | 1.00 |
| Heptane | 142-82-5 | ug/m3 | 10.7 | 1.00 | < 1.00 | 1.00 | 2.04 | 1.00 | 155 | 1.00 |
| Hexachlorobutadiene | 87-68-3 | ug/m3 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 |
| Hexane | 110-54-3 | ug/m3 | 10.3 | 1.00 | < 1.00 | 1.00 | 1.41 | 1.00 | 111 | 1.00 |
| Isopropylalcohol | 67-63-0 | ug/m3 | 11.9 | 1.00 | 5.9 | 1.00 | 3.39 | 1.00 | < 1.00 | 1.00 |
| Isopropylbenzene | 98-82-8 | ug/m3 | 1.23 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 | 4.07 | 1.00 |
| m,p-Xylene | 179601-23-1 | ug/m3 | 56 | 1.00 | 10.7 | 1.00 | 22 | 1.00 | 222 | 1.00 |
| Methyl Ethyl Ketone | 78-93-3 | ug/m3 | 1.78 | 1.00 | 1.27 | 1.00 | < 1.00 | 1.00 | 15.6 | 1.00 |
| Methyl tert-butyl ether(MTBE) | 1634-04-4 | ug/m3 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 |
| Methylene Chloride | 75-09-2 | ug/m3 | < 3.00 | 3.00 | < 3.00 | 3.00 | < 3.00 | 3.00 | < 3.00 | 3.00 |
| n-Butylbenzene | 104-51-8 | ug/m3 | 3.31 | 1.00 | 1.05 | 1.00 | 1.33 | 1.00 | 4.34 | 1.00 |
| o-Xylene | 95-47-6 | ug/m3 | 20 | 1.00 | 3.76 | 1.00 | 7.77 | 1.00 | 76.4 | 1.00 |
| Propylene | 115-07-1 | ug/m3 | 8.65 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 | 44 | 1.00 |
| sec-Butylbenzene | 135-98-8 | ug/m3 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 |
| Styrene | 100-42-5 | ug/m3 | 9.75 | 1.00 | 1.66 | 1.00 | 4.73 | 1.00 | 14.9 | 1.00 |
| Tetrachloroethene | 127-18-4 | ug/m3 | 193 | 0.25 | 207 | 0.25 | 4.95 | 0.25 | 157 | 0.25 |
| Tetrahydrofuran | 109-99-9 | ug/m3 | 18.2 | 1.00 | 5.1 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 |
| Toluene | 108-88-3 | ug/m3 | 71.9 | 1.00 | 5.61 | 1.00 | 12.8 | 1.00 | 1,130 | 74.9 |
| Trans-1,2-Dichloroethene | 156-60-5 | ug/m3 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 |
| trans-1,3-Dichloropropene | 10061-02-6 | ug/m3 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 |
| Trichloroethene | 79-01-6 | ug/m3 | 1.07 | 0.20 | 1.26 | 0.20 | < 0.20 | 0.20 | 1.3 | 0.20 |
| Trichlorofluoromethane | 75-69-4 | ug/m3 | 1.07 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 |
| Trichlorotrifluoroethane | 76-13-1 | ug/m3 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 |
| Vinyl Chloride | 75-01-4 | ug/m3 | < 0.20 | 0.20 | < 0.20 | 0.20 | < 0.20 | 0.20 | < 0.20 | 0.20 |

Result Detected

## Table 1-2 Air Sampling Results

**G. C. Environmental, Inc.**
**101 Westmoreland Avenue,**
**White Plains, NY 10606**

**GCE Project No:05-003-00**

| | Lab Sample Id | | CI65378 | | CI65379 | | CI65380 | | CI65381 | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Collection Date | | 6/29/2021 | | 6/29/2021 | | 6/29/2021 | | 6/29/2021 | |
| | Client Id | | SVE-1 | | SVE-2 | | SP-1 | | SP-2 | |
| | Matrix | | Air | | Air | | Air | | Air | |
| | CAS | Units | Result | RL | Result | RL | Result | RL | Result | RL |
| **Volatiles (TO15) By TO15** | | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | 630-20-6 | ug/m3 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 |
| 1,1,1-Trichloroethane | 71-55-6 | ug/m3 | 112 | 1.00 | 70.3 | 1.00 | 121 | 1.00 | 4.57 | 1.00 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | ug/m3 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 |
| 1,1,2-Trichloroethane | 79-00-5 | ug/m3 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 |
| 1,1-Dichloroethane | 75-34-3 | ug/m3 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 |
| 1,1-Dichloroethene | 75-35-4 | ug/m3 | 0.62 | 0.20 | 0.65 | 0.20 | 0.72 | 0.20 | 4.44 | 0.20 |
| 1,2,4-Trichlorobenzene | 120-82-1 | ug/m3 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 |
| 1,2,4-Trimethylbenzene | 95-63-6 | ug/m3 | 31.5 | 1.00 | < 1.00 | 1.00 | 15.5 | 1.00 | 16.5 | 1.00 |
| 1,2-Dibromoethane(EDB) | 106-93-4 | ug/m3 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 |
| 1,2-Dichlorobenzene | 95-50-1 | ug/m3 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 |
| 1,2-Dichloroethane | 107-06-2 | ug/m3 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 |
| 1,2-dichloropropane | 78-87-5 | ug/m3 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 |
| 1,2-Dichlorotetrafluoroethane | 76-14-2 | ug/m3 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 |
| 1,3,5-Trimethylbenzene | 108-67-8 | ug/m3 | 8.79 | 1.00 | < 1.00 | 1.00 | 5.31 | 1.00 | 3.33 | 1.00 |
| 1,3-Butadiene | 106-99-0 | ug/m3 | 1.46 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 |
| 1,3-Dichlorobenzene | 541-73-1 | ug/m3 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 |
| 1,4-Dichlorobenzene | 106-46-7 | ug/m3 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 |
| 1,4-Dioxane | 123-91-1 | ug/m3 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 |
| 2-Hexanone(MBK) | 591-78-6 | ug/m3 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 |
| 4-Ethyltoluene | 622-96-8 | ug/m3 | 24.8 | 1.00 | < 1.00 | 1.00 | 10.7 | 1.00 | 9.48 | 1.00 |
| 4-Isopropyltoluene | 99-87-6 | ug/m3 | 2.24 | 1.00 | < 1.00 | 1.00 | 3.04 | 1.00 | 1.16 | 1.00 |
| 4-Methyl-2-pentanone(MIBK) | 108-10-1 | ug/m3 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 |
| Acetone | 67-64-1 | ug/m3 | 21.8 | 1.00 | 37.7 | 1.00 | 24 | 1.00 | 12.2 | 1.00 |
| Acrylonitrile | 107-13-1 | ug/m3 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 |
| Benzene | 71-43-2 | ug/m3 | 5.68 | 1.00 | 1.29 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 |
| Benzyl chloride | 100-44-7 | ug/m3 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 |
| Bromodichloromethane | 75-27-4 | ug/m3 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 |
| Bromoform | 75-25-2 | ug/m3 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 |
| Bromomethane | 74-83-9 | ug/m3 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 |
| Carbon Disulfide | 75-15-0 | ug/m3 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 |
| Carbon Tetrachloride | 56-23-5 | ug/m3 | 0.45 | 0.20 | 0.47 | 0.20 | 0.45 | 0.20 | < 0.20 | 0.20 |
| Chlorobenzene | 108-90-7 | ug/m3 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 |
| Chloroethane | 75-00-3 | ug/m3 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 |
| Chloroform | 67-66-3 | ug/m3 | 2.08 | 1.00 | 1.4 | 1.00 | 2.24 | 1.00 | < 1.00 | 1.00 |
| Chloromethane | 74-87-3 | ug/m3 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 |
| Cis-1,2-Dichloroethene | 156-59-2 | ug/m3 | 0.28 | 0.20 | 0.27 | 0.20 | 0.34 | 0.20 | 0.38 | 0.20 |
| cis-1,3-Dichloropropene | 10061-01-5 | ug/m3 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 |
| Cyclohexane | 110-82-7 | ug/m3 | 5.57 | 1.00 | 4.4 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 |
| Dibromochloromethane | 124-48-1 | ug/m3 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 |
| Dichlorodifluoromethane | 75-71-8 | ug/m3 | 3.36 | 1.00 | 3.12 | 1.00 | 3.52 | 1.00 | 2.78 | 1.00 |
| Ethanol | 64-17-5 | ug/m3 | 90.6 | 5.01 | 102 | 1.00 | 11.9 | 1.00 | 8.51 | 1.00 |
| Ethyl acetate | 141-78-6 | ug/m3 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 |
| Ethylbenzene | 100-41-4 | ug/m3 | 13.6 | 1.00 | < 1.00 | 1.00 | 1.81 | 1.00 | 1.08 | 1.00 |
| Heptane | 142-82-5 | ug/m3 | 8.19 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 |
| Hexachlorobutadiene | 87-68-3 | ug/m3 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 |
| Hexane | 110-54-3 | ug/m3 | 14.2 | 1.00 | 8.56 | 1.00 | 1.16 | 1.00 | < 1.00 | 1.00 |
| Isopropylalcohol | 67-63-0 | ug/m3 | 1.2 | 1.00 | < 1.00 | 1.00 | 4.25 | 1.00 | 1.84 | 1.00 |
| Isopropylbenzene | 98-82-8 | ug/m3 | 1.28 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 |
| m,p-Xylene | 179601-23-1 | ug/m3 | 46.9 | 1.00 | < 1.00 | 1.00 | 7.98 | 1.00 | 5.38 | 1.00 |
| Methyl Ethyl Ketone | 78-93-3 | ug/m3 | 13.6 | 1.00 | < 1.00 | 1.00 | 19.5 | 1.00 | 1.08 | 1.00 |
| Methyl tert-butyl ether(MTBE) | 1634-04-4 | ug/m3 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 |
| Methylene Chloride | 75-09-2 | ug/m3 | < 3.00 | 3.00 | < 3.00 | 3.00 | < 3.00 | 3.00 | < 3.00 | 3.00 |
| n-Butylbenzene | 104-51-8 | ug/m3 | < 1.00 | 1.00 | < 1.00 | 1.00 | 4.3 | 1.00 | 3.71 | 1.00 |
| o-Xylene | 95-47-6 | ug/m3 | 19.6 | 1.00 | < 1.00 | 1.00 | 4.15 | 1.00 | 2.5 | 1.00 |
| Propylene | 115-07-1 | ug/m3 | 6.33 | 1.00 | 1.49 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 |
| sec-Butylbenzene | 135-98-8 | ug/m3 | 1.05 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 |
| Styrene | 100-42-5 | ug/m3 | 2.79 | 1.00 | < 1.00 | 1.00 | 1.49 | 1.00 | 1.8 | 1.00 |
| Tetrachloroethene | 127-18-4 | ug/m3 | 570 | 1.25 | 24.5 | 0.25 | 725 | 1.25 | 26.5 | 0.25 |
| Tetrahydrofuran | 109-99-9 | ug/m3 | 45.4 | 1.00 | 47.2 | 1.00 | 78.1 | 1.00 | 1.13 | 1.00 |
| Toluene | 108-88-3 | ug/m3 | 68.2 | 1.00 | 1.2 | 1.00 | 4.14 | 1.00 | 1.06 | 1.00 |
| Trans-1,2-Dichloroethene | 156-60-5 | ug/m3 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 |
| trans-1,3-Dichloropropene | 10061-02-6 | ug/m3 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 |
| Trichloroethene | 79-01-6 | ug/m3 | 4.98 | 0.20 | 1.51 | 0.20 | 4.73 | 0.20 | < 0.20 | 0.20 |
| Trichlorofluoromethane | 75-69-4 | ug/m3 | 1.49 | 1.00 | 1.45 | 1.00 | 1.5 | 1.00 | 1.94 | 1.00 |
| Trichlorotrifluoroethane | 76-13-1 | ug/m3 | 1.23 | 1.00 | < 1.00 | 1.00 | 1.24 | 1.00 | < 1.00 | 1.00 |
| Vinyl Chloride | 75-01-4 | ug/m3 | < 0.20 | 0.20 | < 0.20 | 0.20 | < 0.20 | 0.20 | < 0.20 | 0.20 |

Result Detected

**Table 1-3 Air Sampling Results**

**G. C. Environmental, Inc.**
101 Westmoreland Avenue,
White Plains, NY 10606

GCE Project No: 05-003-00

| | Lab Sample Id | | CJ39817 | | CJ39818 | | CJ39819 | | CJ39820 | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Collection Date | | 9/22/2021 | | 9/22/2021 | | 9/22/2021 | | 9/22/2021 | |
| | Client Id | | SV-2 | | SP-2 | | SV-1 | | SP-1 | |
| | Matrix | | Air | | Air | | Air | | Air | |
| | CAS | Units | Result | RL | Result | RL | Result | RL | Result | RL |
| **VOCs** | | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | 630-20-6 | ug/m3 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 |
| 1,1,1-Trichloroethane | 71-55-6 | ug/m3 | 94.9 | 1.00 | 9.38 | 1.00 | 130 | 1.00 | 178 | 1.00 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | ug/m3 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 |
| 1,1,2-Trichloroethane | 79-00-5 | ug/m3 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 |
| 1,1-Dichloroethane | 75-34-3 | ug/m3 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 |
| 1,1-Dichloroethene | 75-35-4 | ug/m3 | 0.35 | 0.20 | 9.71 | 0.20 | 0.41 | 0.20 | 0.56 | 0.20 |
| 1,2,4-Trichlorobenzene | 120-82-1 | ug/m3 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 |
| 1,2,4-Trimethylbenzene | 95-63-6 | ug/m3 | 8.99 | 1.00 | 11 | 1.00 | 12.6 | 1.00 | 8.5 | 1.00 |
| 1,2-Dibromoethane(EDB) | 106-93-4 | ug/m3 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 |
| 1,2-Dichlorobenzene | 95-50-1 | ug/m3 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 |
| 1,2-Dichloroethane | 107-06-2 | ug/m3 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 |
| 1,2-dichloropropane | 78-87-5 | ug/m3 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 |
| 1,2-Dichlorotetrafluoroethane | 76-14-2 | ug/m3 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 |
| 1,3,5-Trimethylbenzene | 108-67-8 | ug/m3 | 2.18 | 1.00 | 2.58 | 1.00 | 3.07 | 1.00 | 2.11 | 1.00 |
| 1,3-Butadiene | 106-99-0 | ug/m3 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 |
| 1,3-Dichlorobenzene | 541-73-1 | ug/m3 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 |
| 1,4-Dichlorobenzene | 106-46-7 | ug/m3 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 |
| 1,4-Dioxane | 123-91-1 | ug/m3 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 |
| 2-Hexanone(MBK) | 591-78-6 | ug/m3 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 |
| 4-Ethyltoluene | 622-96-8 | ug/m3 | 5.4 | 1.00 | 7.47 | 1.00 | 8.45 | 1.00 | 5.31 | 1.00 |
| 4-Isopropyltoluene | 99-87-6 | ug/m3 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 |
| 4-Methyl-2-pentanone(MIBK) | 108-10-1 | ug/m3 | < 1.00 | 1.00 | < 1.00 | 1.00 | 1.37 | 1.00 | < 1.00 | 1.00 |
| Acetone | 67-64-1 | ug/m3 | 14.3 | 1.00 | 30.1 | 1.00 | 17.7 | 1.00 | 33.7 | 1.00 |
| Acrylonitrile | 107-13-1 | ug/m3 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 |
| Benzene | 71-43-2 | ug/m3 | < 1.00 | 1.00 | < 1.00 | 1.00 | 1.37 | 1.00 | < 1.00 | 1.00 |
| Benzyl chloride | 100-44-7 | ug/m3 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 |
| Bromodichloromethane | 75-27-4 | ug/m3 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 |
| Bromoform | 75-25-2 | ug/m3 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 |
| Bromomethane | 74-83-9 | ug/m3 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 |
| Carbon Disulfide | 75-15-0 | ug/m3 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 |
| Carbon Tetrachloride | 56-23-5 | ug/m3 | 0.48 | 0.20 | < 0.20 | 0.20 | 0.38 | 0.20 | 0.5 | 0.20 |
| Chlorobenzene | 108-90-7 | ug/m3 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 |
| Chloroethane | 75-00-3 | ug/m3 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 |
| Chloroform | 67-66-3 | ug/m3 | 1.03 | 1.00 | < 1.00 | 1.00 | 2.27 | 1.00 | 2.54 | 1.00 |
| Chloromethane | 74-87-3 | ug/m3 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 |
| Cis-1,2-Dichloroethene | 156-59-2 | ug/m3 | 0.34 | 0.20 | 0.33 | 0.20 | < 0.20 | 0.20 | 0.37 | 0.20 |
| cis-1,3-Dichloropropene | 10061-01-5 | ug/m3 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 |
| Cyclohexane | 110-82-7 | ug/m3 | < 1.00 | 1.00 | < 1.00 | 1.00 | 1.63 | 1.00 | < 1.00 | 1.00 |
| Dibromochloromethane | 124-48-1 | ug/m3 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 |
| Dichlorodifluoromethane | 75-71-8 | ug/m3 | 3.42 | 1.00 | 2.19 | 1.00 | 2.82 | 1.00 | 3.21 | 1.00 |
| Ethanol | 64-17-5 | ug/m3 | 12.8 | 1.00 | 12.9 | 1.00 | 21.1 | 1.00 | 4.35 | 1.00 |
| Ethyl acetate | 141-78-6 | ug/m3 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 |
| Ethylbenzene | 100-41-4 | ug/m3 | 1.87 | 1.00 | 1.3 | 1.00 | 4.64 | 1.00 | 1.1 | 1.00 |
| Heptane | 142-82-5 | ug/m3 | 2 | 1.00 | 1.61 | 1.00 | 5.2 | 1.00 | < 1.00 | 1.00 |
| Hexachlorobutadiene | 87-68-3 | ug/m3 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 |
| Hexane | 110-54-3 | ug/m3 | 4.54 | 1.00 | 1.99 | 1.00 | 4.23 | 1.00 | 1.3 | 1.00 |
| Isopropylalcohol | 67-63-0 | ug/m3 | 1.85 | 1.00 | 3.39 | 1.00 | 2.97 | 1.00 | 2.21 | 1.00 |
| Isopropylbenzene | 98-82-8 | ug/m3 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 |
| m,p-Xylene | 179601-23-1 | ug/m3 | 7.51 | 1.00 | 5.68 | 1.00 | 16 | 1.00 | 4.6 | 1.00 |
| Methyl Ethyl Ketone | 78-93-3 | ug/m3 | 2.74 | 1.00 | 2.91 | 1.00 | 3.83 | 1.00 | 23.4 | 1.00 |
| Methyl tert-butyl ether(MTBE) | 1634-04-4 | ug/m3 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 |
| Methylene Chloride | 75-09-2 | ug/m3 | 20.1 | 3.00 | 4.79 | 3.00 | 5.14 | 3.00 | 3.58 | 3.00 |
| n-Butylbenzene | 104-51-8 | ug/m3 | 2.22 | 1.00 | 1.9 | 1.00 | 2.51 | 1.00 | 1.87 | 1.00 |
| o-Xylene | 95-47-6 | ug/m3 | 2.5 | 1.00 | 2.26 | 1.00 | 4.9 | 1.00 | 1.67 | 1.00 |
| Propylene | 115-07-1 | ug/m3 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 |
| sec-Butylbenzene | 135-98-8 | ug/m3 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 |
| Styrene | 100-42-5 | ug/m3 | 5.7 | 1.00 | 2.94 | 1.00 | 5.28 | 1.00 | 3.17 | 1.00 |
| Tetrachloroethene | 127-18-4 | ug/m3 | 308 | 1.25 | 12.9 | 0.25 | 466 | 1.25 | 773 | 1.25 |
| Tetrahydrofuran | 109-99-9 | ug/m3 | 12.3 | 1.00 | < 1.00 | 1.00 | 7.49 | 1.00 | 360 | 5.01 |
| Toluene | 108-88-3 | ug/m3 | 10.6 | 1.00 | 1.61 | 1.00 | 28.4 | 1.00 | 3.92 | 1.00 |
| Trans-1,2-Dichloroethene | 156-60-5 | ug/m3 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 |
| trans-1,3-Dichloropropene | 10061-02-6 | ug/m3 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 | < 1.00 | 1.00 |
| Trichloroethene | 79-01-6 | ug/m3 | 2.09 | 0.20 | < 0.20 | 0.20 | 6.71 | 0.20 | 7.79 | 0.20 |
| Trichlorofluoromethane | 75-69-4 | ug/m3 | 1.44 | 1.00 | < 1.00 | 1.00 | 1.4 | 1.00 | 1.42 | 1.00 |
| Trichlorotrifluoroethane | 76-13-1 | ug/m3 | < 1.00 | 1.00 | < 1.00 | 1.00 | 1.1 | 1.00 | 1.19 | 1.00 |
| Vinyl Chloride | 75-01-4 | ug/m3 | < 0.20 | 0.20 | < 0.20 | 0.20 | < 0.20 | 0.20 | < 0.20 | 0.20 |

Result Detected

| **Table 2-1-GW Results**<br><br>**G. C. Environmental, Inc.**<br>**101 Westmoreland Avenue,**<br>**White Plains, NY 10606**<br><br>**Project Id : 05-003-00** | Lab Sample Id<br>Collection Date<br>Client Id<br>Matrix<br><br>CAS | Units | TOGS-WQ/GA | CG65207<br>8/28/2020<br>MW-2<br>Ground Water | | CG65208<br>8/28/2020<br>MW-3<br>Ground Water | | CG65209<br>8/28/2020<br>MW-4<br>Ground Water | | CG65210<br>8/28/2020<br>MW-5<br>Ground Water | | CG65211<br>8/28/2020<br>MW-6<br>Ground Water | | CG65212<br>8/28/2020<br>MW-7<br>Ground Water | | CG65213<br>8/28/2020<br>MW-8<br>Ground Water | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Result | RL | Result | RL | Result | RL | Result | RL | Result | RL | Result | RL | Result | RL |
| **Volatiles By SW8260C** | | | | | | | | | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | 630-20-6 | ug/L | 5 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 |
| 1,1,1-Trichloroethane | 71-55-6 | ug/L | 5 | 21 | 1.0 | 5.9 | 1.0 | 8.9 | 1.0 | 8.6 | 1.0 | 6.1 | 1.0 | 27 | 5.0 | 16 | 1.0 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | ug/L | 5 | < 0.50 | 0.50 | < 0.50 | 0.50 | < 0.50 | 0.50 | < 0.50 | 0.50 | < 0.50 | 0.50 | < 0.50 | 0.50 | < 0.50 | 0.50 |
| 1,1,2-Trichloroethane | 79-00-5 | ug/L | 1 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 |
| 1,1-Dichloroethane | 75-34-3 | ug/L | 5 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 |
| 1,1-Dichloroethene | 75-35-4 | ug/L | 5 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | 1.8 | 1.0 | < 1.0 | 1.0 |
| 1,1-Dichloropropene | 563-58-6 | ug/L | 5 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 |
| 1,2,3-Trichlorobenzene | 87-61-6 | ug/L | NS | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 |
| 1,2,3-Trichloropropane | 96-18-4 | ug/L | 0.04 | < 0.25 | 0.25 | < 0.25 | 0.25 | < 0.25 | 0.25 | < 0.25 | 0.25 | < 0.25 | 0.25 | < 0.25 | 0.25 | < 0.25 | 0.25 |
| 1,2,4-Trichlorobenzene | 120-82-1 | ug/L | NS | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 |
| 1,2,4-Trimethylbenzene | 95-63-6 | ug/L | 5 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 |
| 1,2-Dibromo-3-chloropropane | 96-12-8 | ug/L | 0.04 | < 0.50 | 0.50 | < 0.50 | 0.50 | < 0.50 | 0.50 | < 0.50 | 0.50 | < 0.50 | 0.50 | < 0.50 | 0.50 | < 0.50 | 0.50 |
| 1,2-Dibromoethane | 106-93-4 | ug/L | 0.0006 | < 0.25 | 0.25 | < 0.25 | 0.25 | < 0.25 | 0.25 | < 0.25 | 0.25 | < 0.25 | 0.25 | < 0.25 | 0.25 | < 0.25 | 0.25 |
| 1,2-Dichlorobenzene | 95-50-1 | ug/L | NS | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 |
| 1,2-Dichloroethane | 107-06-2 | ug/L | 0.6 | < 0.60 | 0.60 | < 0.60 | 0.60 | < 0.60 | 0.60 | < 0.60 | 0.60 | < 0.60 | 0.60 | < 0.60 | 0.60 | < 0.60 | 0.60 |
| 1,2-Dichloropropane | 78-87-5 | ug/L | 1 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 |
| 1,3,5-Trimethylbenzene | 108-67-8 | ug/L | 5 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 |
| 1,3-Dichlorobenzene | 541-73-1 | ug/L | 3 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 |
| 1,3-Dichloropropane | 142-28-9 | ug/L | 5 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 |
| 1,4-Dichlorobenzene | 106-46-7 | ug/L | NS | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 |
| 2,2-Dichloropropane | 594-20-7 | ug/L | 5 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 |
| 2-Chlorotoluene | 95-49-8 | ug/L | 5 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 |
| 2-Hexanone | 591-78-6 | ug/L | 50 | < 5.0 | 5.0 | < 5.0 | 5.0 | < 5.0 | 5.0 | < 5.0 | 5.0 | < 5.0 | 5.0 | < 5.0 | 5.0 | < 5.0 | 5.0 |
| 2-Isopropyltoluene | 527-84-4 | ug/L | 5 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 |
| 4-Chlorotoluene | 106-43-4 | ug/L | 5 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 |
| 4-Methyl-2-pentanone | 108-10-1 | ug/L | NS | < 5.0 | 5.0 | < 5.0 | 5.0 | < 5.0 | 5.0 | < 5.0 | 5.0 | < 5.0 | 5.0 | < 5.0 | 5.0 | < 5.0 | 5.0 |
| Acetone | 67-64-1 | ug/L | 50 | < 25 | 25 | < 25 | 25 | < 25 | 25 | < 25 | 25 | < 25 | 25 | < 25 | 25 | < 25 | 25 |
| Acrylonitrile | 107-13-1 | ug/L | 5 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 |
| Benzene | 71-43-2 | ug/L | 1 | < 0.70 | 0.70 | < 0.70 | 0.70 | < 0.70 | 0.70 | < 0.70 | 0.70 | < 0.70 | 0.70 | < 0.70 | 0.70 | < 0.70 | 0.70 |
| Bromobenzene | 108-86-1 | ug/L | 5 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 |
| Bromochloromethane | 74-97-5 | ug/L | 5 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 |
| Bromodichloromethane | 75-27-4 | ug/L | 50 | < 0.50 | 0.50 | < 0.50 | 0.50 | < 0.50 | 0.50 | < 0.50 | 0.50 | < 0.50 | 0.50 | < 0.50 | 0.50 | < 0.50 | 0.50 |
| Bromoform | 75-25-2 | ug/L | 50 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 |
| Bromomethane | 74-83-9 | ug/L | 5 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 |
| Carbon Disulfide | 75-15-0 | ug/L | NS | < 5.0 | 5.0 | < 5.0 | 5.0 | < 5.0 | 5.0 | < 5.0 | 5.0 | < 5.0 | 5.0 | < 5.0 | 5.0 | < 5.0 | 5.0 |
| Carbon tetrachloride | 56-23-5 | ug/L | 5 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 |
| Chlorobenzene | 108-90-7 | ug/L | 5 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 |
| Chloroethane | 75-00-3 | ug/L | 5 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 |
| Chloroform | 67-66-3 | ug/L | 7 | 1.6 | 1.0 | 1.3 | 1.0 | 1.2 | 1.0 | 1.1 | 1.0 | 1.4 | 1.0 | 1.4 | 1.0 | < 1.0 | 1.0 |
| Chloromethane | 74-87-3 | ug/L | 5 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 |
| cis-1,2-Dichloroethene | 156-59-2 | ug/L | 5 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 |
| cis-1,3-Dichloropropene | 10061-01-5 | ug/L | 0.4 | < 0.40 | 0.40 | < 0.40 | 0.40 | < 0.40 | 0.40 | < 0.40 | 0.40 | < 0.40 | 0.40 | < 0.40 | 0.40 | < 0.40 | 0.40 |
| Dibromochloromethane | 124-48-1 | ug/L | 50 | < 0.50 | 0.50 | < 0.50 | 0.50 | < 0.50 | 0.50 | < 0.50 | 0.50 | < 0.50 | 0.50 | < 0.50 | 0.50 | < 0.50 | 0.50 |
| Dibromomethane | 74-95-3 | ug/L | 5 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 |
| Dichlorodifluoromethane | 75-71-8 | ug/L | 5 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 |
| Ethylbenzene | 100-41-4 | ug/L | 5 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 |
| Hexachlorobutadiene | 87-68-3 | ug/L | 0.5 | < 0.40 | 0.40 | < 0.40 | 0.40 | < 0.40 | 0.40 | < 0.40 | 0.40 | < 0.40 | 0.40 | < 0.40 | 0.40 | < 0.40 | 0.40 |
| Isopropylbenzene | 98-82-8 | ug/L | 5 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 |
| m&p-Xylene | 179601-23-1 | ug/L | NS | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 |
| Methyl ethyl ketone | 78-93-3 | ug/L | 50 | < 5.0 | 5.0 | < 5.0 | 5.0 | < 5.0 | 5.0 | < 5.0 | 5.0 | < 5.0 | 5.0 | < 5.0 | 5.0 | < 5.0 | 5.0 |
| Methyl t-butyl ether (MTBE) | 1634-04-4 | ug/L | | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 |
| Methylene chloride | 75-09-2 | ug/L | 5 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 |
| Naphthalene | 91-20-3 | ug/L | 10 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 |
| n-Butylbenzene | 104-51-8 | ug/L | 5 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 |
| n-Propylbenzene | 103-65-1 | ug/L | 5 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 |
| o-Xylene | 95-47-6 | ug/L | 5 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 |
| p-Isopropyltoluene | 99-87-6 | ug/L | 5 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 |
| sec-Butylbenzene | 135-98-8 | ug/L | 5 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 |
| Styrene | 100-42-5 | ug/L | 5 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 |
| tert-Butylbenzene | 98-06-6 | ug/L | 5 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 |
| Tetrachloroethene | 127-18-4 | ug/L | 5 | 19 | 1.0 | 15 | 1.0 | 1.8 | 1.0 | 2.3 | 1.0 | 9 | 1.0 | < 1.0 | 1.0 | 1.1 | 1.0 |
| Tetrahydrofuran (THF) | 109-99-9 | ug/L | 50 | < 2.5 | 2.5 | < 2.5 | 2.5 | < 2.5 | 2.5 | < 2.5 | 2.5 | < 2.5 | 2.5 | < 2.5 | 2.5 | < 2.5 | 2.5 |
| Toluene | 108-88-3 | ug/L | 5 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 |
| Total Xylenes | 1330-20-7 | ug/L | 5 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 |
| trans-1,2-Dichloroethene | 156-60-5 | ug/L | 5 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 |
| trans-1,3-Dichloropropene | 10061-02-6 | ug/L | 0.4 | < 0.40 | 0.40 | < 0.40 | 0.40 | < 0.40 | 0.40 | < 0.40 | 0.40 | < 0.40 | 0.40 | < 0.40 | 0.40 | < 0.40 | 0.40 |
| trans-1,4-dichloro-2-butene | 110-57-6 | ug/L | 5 | < 5.0 | 5.0 | < 5.0 | 5.0 | < 5.0 | 5.0 | < 5.0 | 5.0 | < 5.0 | 5.0 | < 5.0 | 5.0 | < 5.0 | 5.0 |
| Trichloroethene | 79-01-6 | ug/L | 5 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 |
| Trichlorofluoromethane | 75-69-4 | ug/L | 5 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 |
| Trichlorotrifluoroethane | 76-13-1 | ug/L | 5 | 1 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 |
| Vinyl chloride | 75-01-4 | ug/L | 2 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 |
| **Semivolatiles, SIM By SW8270D (SIM)** | | | | | | | | | | | | | | | | | |
| Acenaphthylene | 208-96-8 | ug/L | NS | < 0.48 | 0.48 | < 0.49 | 0.49 | < 0.48 | 0.48 | < 0.48 | 0.48 | < 0.47 | 0.47 | < 0.47 | 0.47 | < 0.47 | 0.47 |
| Benz(a)anthracene | 56-55-3 | ug/L | 0.002 | < 0.02 | 0.02 | < 0.02 | 0.02 | < 0.02 | 0.02 | < 0.02 | 0.02 | < 0.02 | 0.02 | 0.03 | 0.02 | < 0.02 | 0.02 |
| Benzo(a)pyrene | 50-32-8 | ug/L | NS | < 0.02 | 0.02 | < 0.02 | 0.02 | < 0.02 | 0.02 | < 0.02 | 0.02 | < 0.02 | 0.02 | < 0.02 | 0.02 | < 0.02 | 0.02 |
| Benzo(b)fluoranthene | 205-99-2 | ug/L | 0.002 | < 0.02 | 0.02 | < 0.02 | 0.02 | < 0.02 | 0.02 | < 0.02 | 0.02 | < 0.02 | 0.02 | < 0.02 | 0.02 | < 0.02 | 0.02 |
| Benzo(ghi)perylene | 191-24-2 | ug/L | NS | < 0.48 | 0.48 | < 0.49 | 0.49 | < 0.48 | 0.48 | < 0.48 | 0.48 | < 0.47 | 0.47 | < 0.47 | 0.47 | < 0.47 | 0.47 |
| Benzo(k)fluoranthene | 207-08-9 | ug/L | 0.002 | < 0.02 | 0.02 | < 0.02 | 0.02 | < 0.02 | 0.02 | < 0.02 | 0.02 | < 0.02 | 0.02 | < 0.02 | 0.02 | < 0.02 | 0.02 |
| Chrysene | 218-01-9 | ug/L | 0.002 | < 0.02 | 0.02 | < 0.02 | 0.02 | < 0.02 | 0.02 | < 0.02 | 0.02 | < 0.02 | 0.02 | 0.02 | 0.02 | < 0.02 | 0.02 |
| Dibenz(a,h)anthracene | 53-70-3 | ug/L | NS | < 0.48 | 0.48 | < 0.49 | 0.49 | < 0.48 | 0.48 | < 0.48 | 0.48 | < 0.47 | 0.47 | < 0.47 | 0.47 | < 0.47 | 0.47 |
| Hexachlorobenzene | 118-74-1 | ug/L | 0.04 | < 0.04 | 0.04 | < 0.04 | 0.04 | < 0.04 | 0.04 | < 0.04 | 0.04 | < 0.04 | 0.04 | < 0.04 | 0.04 | < 0.04 | 0.04 |
| Hexachlorobutadiene | 87-68-3 | ug/L | 0.5 | < 0.48 | 0.48 | < 0.49 | 0.49 | < 0.48 | 0.48 | < 0.48 | 0.48 | < 0.47 | 0.47 | < 0.47 | 0.47 | < 0.47 | 0.47 |
| Hexachlorocyclopentadiene | 77-47-4 | ug/L | 5 | < 0.48 | 0.48 | < 0.49 | 0.49 | < 0.48 | 0.48 | < 0.48 | 0.48 | < 0.47 | 0.47 | < 0.47 | 0.47 | < 0.47 | 0.47 |
| Indeno(1,2,3-cd)pyrene | 193-39-5 | ug/L | 0.002 | < 0.02 | 0.02 | < 0.02 | 0.02 | < 0.02 | 0.02 | < 0.02 | 0.02 | < 0.02 | 0.02 | < 0.02 | 0.02 | < 0.02 | 0.02 |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Nitrobenzene | 98-95-3 | ug/L | 0.4 | < 0.38 | 0.38 | < 0.39 | 0.39 | < 0.38 | 0.38 | < 0.38 | 0.38 | 0.56 | 0.38 | < 0.38 | 0.38 | < 0.38 | 0.38 |
| Phenanthrene | 85-01-8 | ug/L | 50 | < 0.48 | 0.48 | < 0.49 | 0.49 | < 0.48 | 0.48 | < 0.48 | 0.48 | < 0.47 | 0.47 | < 0.47 | 0.47 | < 0.47 | 0.47 |
| **Semivolatiles, Full Scan By SW8270D** | | | | | | | | | | | | | | | | | |
| 1,2,4-Trichlorobenzene | 120-82-1 | ug/L | NS | < 4.8 | 4.8 | < 4.9 | 4.9 | < 4.8 | 4.8 | < 4.8 | 4.8 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 |
| 1,2-Dichlorobenzene | 95-50-1 | ug/L | NS | < 2.9 | 2.9 | < 2.9 | 2.9 | < 2.9 | 2.9 | < 2.9 | 2.9 | < 2.8 | 2.8 | < 2.8 | 2.8 | < 2.8 | 2.8 |
| 1,2-Diphenylhydrazine | 122-66-7 | ug/L | NS | < 4.8 | 4.8 | < 4.9 | 4.9 | < 4.8 | 4.8 | < 4.8 | 4.8 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 |
| 1,3-Dichlorobenzene | 541-73-1 | ug/L | 3 | < 2.9 | 2.9 | < 2.9 | 2.9 | < 2.9 | 2.9 | < 2.9 | 2.9 | < 2.8 | 2.8 | < 2.8 | 2.8 | < 2.8 | 2.8 |
| 1,4-Dichlorobenzene | 106-46-7 | ug/L | NS | < 2.9 | 2.9 | < 2.9 | 2.9 | < 2.9 | 2.9 | < 2.9 | 2.9 | < 2.8 | 2.8 | < 2.8 | 2.8 | < 2.8 | 2.8 |
| 2,4-Dinitrotoluene | 121-14-2 | ug/L | 5 | < 4.8 | 4.8 | < 4.9 | 4.9 | < 4.8 | 4.8 | < 4.8 | 4.8 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 |
| 2,6-Dinitrotoluene | 606-20-2 | ug/L | 5 | < 4.8 | 4.8 | < 4.9 | 4.9 | < 4.8 | 4.8 | < 4.8 | 4.8 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 |
| 2-Chloronaphthalene | 91-58-7 | ug/L | 10 | < 4.8 | 4.8 | < 4.9 | 4.9 | < 4.8 | 4.8 | < 4.8 | 4.8 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 |
| 2-Methylnaphthalene | 91-57-6 | ug/L | NS | < 4.8 | 4.8 | < 4.9 | 4.9 | < 4.8 | 4.8 | < 4.8 | 4.8 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 |
| 2-Nitroaniline | 88-74-4 | ug/L | 5 | < 4.8 | 4.8 | < 4.9 | 4.9 | < 4.8 | 4.8 | < 4.8 | 4.8 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 |
| 3,3'-Dichlorobenzidine | 91-94-1 | ug/L | 5 | < 4.8 | 4.8 | < 4.9 | 4.9 | < 4.8 | 4.8 | < 4.8 | 4.8 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 |
| 3-Nitroaniline | 99-09-2 | ug/L | 5 | < 4.8 | 4.8 | < 4.9 | 4.9 | < 4.8 | 4.8 | < 4.8 | 4.8 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 |
| 4-Bromophenyl phenyl ether | 101-55-3 | ug/L | NS | < 4.8 | 4.8 | < 4.9 | 4.9 | < 4.8 | 4.8 | < 4.8 | 4.8 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 |
| 4-Chloroaniline | 106-47-8 | ug/L | 5 | < 4.8 | 4.8 | < 4.9 | 4.9 | < 4.8 | 4.8 | < 4.8 | 4.8 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 |
| 4-Chlorophenyl phenyl ether | 7005-72-3 | ug/L | NS | < 4.8 | 4.8 | < 4.9 | 4.9 | < 4.8 | 4.8 | < 4.8 | 4.8 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 |
| 4-Nitroaniline | 100-01-6 | ug/L | 5 | < 4.8 | 4.8 | < 4.9 | 4.9 | < 4.8 | 4.8 | < 4.8 | 4.8 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 |
| Acenaphthene | 83-32-9 | ug/L | 20 | < 4.8 | 4.8 | < 4.9 | 4.9 | < 4.8 | 4.8 | < 4.8 | 4.8 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 |
| Anthracene | 120-12-7 | ug/L | 50 | < 4.8 | 4.8 | < 4.9 | 4.9 | < 4.8 | 4.8 | < 4.8 | 4.8 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 |
| Benzidine | 92-87-5 | ug/L | 5 | < 4.8 | 4.8 | < 4.9 | 4.9 | < 4.8 | 4.8 | < 4.8 | 4.8 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 |
| Benzo(ghi)perylene | 191-24-2 | ug/L | NS | < 4.8 | 4.8 | < 4.9 | 4.9 | < 4.8 | 4.8 | < 4.8 | 4.8 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 |
| Benzoic acid | 65-85-0 | ug/L | NS | < 48 | 48 | < 49 | 49 | < 48 | 48 | < 48 | 48 | < 47 | 47 | < 47 | 47 | < 47 | 47 |
| Benzyl Alcohol | 100-51-6 | ug/L | NS | < 19 | 19 | < 19 | 19 | < 19 | 19 | < 19 | 19 | < 19 | 19 | < 19 | 19 | < 19 | 19 |
| Benzyl butyl phthalate | 85-68-7 | ug/L | 50 | < 4.8 | 4.8 | < 4.9 | 4.9 | < 4.8 | 4.8 | < 4.8 | 4.8 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 |
| Bis(2-chloroethoxy)methane | 111-91-1 | ug/L | 5 | < 4.8 | 4.8 | < 4.9 | 4.9 | < 4.8 | 4.8 | < 4.8 | 4.8 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 |
| Bis(2-chloroethyl)ether | 111-44-4 | ug/L | 1 | < 0.96 | 0.96 | < 0.97 | 0.97 | < 0.95 | 0.95 | < 0.95 | 0.95 | < 0.94 | 0.94 | < 0.94 | 0.94 | < 0.94 | 0.94 |
| Bis(2-chloroisopropyl)ether | 108-60-1 | ug/L | 5 | < 0.96 | 0.96 | < 0.97 | 0.97 | < 0.95 | 0.95 | < 0.95 | 0.95 | < 0.94 | 0.94 | < 0.94 | 0.94 | < 0.94 | 0.94 |
| Bis(2-ethylhexyl)phthalate | 117-81-7 | ug/L | 5 | < 4.8 | 4.8 | < 4.9 | 4.9 | < 4.8 | 4.8 | < 4.8 | 4.8 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 |
| Dibenzofuran | 132-64-9 | ug/L | NS | < 4.8 | 4.8 | < 4.9 | 4.9 | < 4.8 | 4.8 | < 4.8 | 4.8 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 |
| Diethyl phthalate | 84-66-2 | ug/L | NS | < 4.8 | 4.8 | < 4.9 | 4.9 | < 4.8 | 4.8 | < 4.8 | 4.8 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 |
| Dimethylphthalate | 131-11-3 | ug/L | 50 | < 4.8 | 4.8 | < 4.9 | 4.9 | < 4.8 | 4.8 | < 4.8 | 4.8 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 |
| Di-n-butylphthalate | 84-74-2 | ug/L | 50 | < 4.8 | 4.8 | < 4.9 | 4.9 | < 4.8 | 4.8 | < 4.8 | 4.8 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 |
| Di-n-octylphthalate | 117-84-0 | ug/L | 50 | < 4.8 | 4.8 | < 4.9 | 4.9 | < 4.8 | 4.8 | < 4.8 | 4.8 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 |
| Fluoranthene | 206-44-0 | ug/L | 50 | < 4.8 | 4.8 | < 4.9 | 4.9 | < 4.8 | 4.8 | < 4.8 | 4.8 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 |
| Fluorene | 86-73-7 | ug/L | 50 | < 4.8 | 4.8 | < 4.9 | 4.9 | < 4.8 | 4.8 | < 4.8 | 4.8 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 |
| Hexachloroethane | 67-72-1 | ug/L | 5 | < 4.8 | 4.8 | < 4.9 | 4.9 | < 4.8 | 4.8 | < 4.8 | 4.8 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 |
| Isophorone | 78-59-1 | ug/L | 50 | < 4.8 | 4.8 | < 4.9 | 4.9 | < 4.8 | 4.8 | < 4.8 | 4.8 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 |
| Naphthalene | 91-20-3 | ug/L | 10 | < 4.8 | 4.8 | < 4.9 | 4.9 | < 4.8 | 4.8 | < 4.8 | 4.8 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 |
| N-Nitrosodimethylamine | 62-75-9 | ug/L | NS | < 4.8 | 4.8 | < 4.9 | 4.9 | < 4.8 | 4.8 | < 4.8 | 4.8 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 |
| N-Nitrosodi-n-propylamine | 621-64-7 | ug/L | NS | < 4.8 | 4.8 | < 4.9 | 4.9 | < 4.8 | 4.8 | < 4.8 | 4.8 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 |
| N-Nitrosodiphenylamine | 86-30-6 | ug/L | 50 | < 4.8 | 4.8 | < 4.9 | 4.9 | < 4.8 | 4.8 | < 4.8 | 4.8 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 |
| Pyrene | 129-00-0 | ug/L | 50 | < 4.8 | 4.8 | < 4.9 | 4.9 | < 4.8 | 4.8 | < 4.8 | 4.8 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 |

Result Detected

RL Exceeds Criteria

Result Exceeds Criteria

**Table 2-2: Groundwater Results**
**G. C. Environmental, Inc.**
101 Westmoreland Avenue,
White Plains, NY 10606

Project Id : 05-003-00

| | Lab Sample Id | Units | TOGS-WQ/GA | CJ39821 9/22/2021 MW-1 Ground Water | | CJ39822 9/22/2021 MW-2 Ground Water | | CJ39823 9/22/2021 MW-3 Ground Water | | CJ39824 9/22/2021 MW-4 Ground Water | | CJ39825 9/22/2021 MW-5 Ground Water | | CJ39826 9/22/2021 MW-6 Ground Water | | CJ39827 9/22/2021 MW-7 Ground Water | | CJ39828 9/22/2021 MW-8 Ground Water | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Result | RL | Result | RL | Result | RL | Result | RL | Result | RL | Result | RL | Result | RL | Result | RL |
| **Volatiles By SW8260C** | | | | | | | | | | | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | 630-20-6 | ug/L | 5 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 |
| 1,1,1-Trichloroethane | 71-55-6 | ug/L | 5 | 25 | 1.0 | 17 | 1.0 | 3.5 | 1.0 | 12 | 1.0 | 8.5 | 1.0 | 6.1 | 1.0 | 35 | 5.0 | 13 | 1.0 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | ug/L | 5 | < 0.50 | 0.50 | < 0.50 | 0.50 | < 0.50 | 0.50 | < 0.50 | 0.50 | < 0.50 | 0.50 | < 0.50 | 0.50 | < 0.50 | 0.50 | < 0.50 | 0.50 |
| 1,1,2-Trichloroethane | 79-00-5 | ug/L | 1 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 |
| 1,1-Dichloroethane | 75-34-3 | ug/L | 5 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 |
| 1,1-Dichloroethene | 75-35-4 | ug/L | 5 | 2.3 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | 1.1 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | 1.6 | 1.0 | < 1.0 | 1.0 |
| 1,1-Dichloropropene | 563-58-6 | ug/L | 5 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 |
| 1,2,3-Trichlorobenzene | 87-61-6 | ug/L | NS | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 |
| 1,2,3-Trichloropropane | 96-18-4 | ug/L | 0.04 | < 0.25 | 0.25 | < 0.25 | 0.25 | < 0.25 | 0.25 | < 0.25 | 0.25 | < 0.25 | 0.25 | < 0.25 | 0.25 | < 0.25 | 0.25 | < 0.25 | 0.25 |
| 1,2,4-Trichlorobenzene | 120-82-1 | ug/L | NS | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 |
| 1,2,4-Trimethylbenzene | 95-63-6 | ug/L | 5 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 |
| 1,2-Dibromo-3-chloropropane | 96-12-8 | ug/L | 0.04 | < 0.50 | 0.50 | < 0.50 | 0.50 | < 0.50 | 0.50 | < 0.50 | 0.50 | < 0.50 | 0.50 | < 0.50 | 0.50 | < 0.50 | 0.50 | < 0.50 | 0.50 |
| 1,2-Dibromoethane | 106-93-4 | ug/L | 0.0006 | < 0.25 | 0.25 | < 0.25 | 0.25 | < 0.25 | 0.25 | < 0.25 | 0.25 | < 0.25 | 0.25 | < 0.25 | 0.25 | < 0.25 | 0.25 | < 0.25 | 0.25 |
| 1,2-Dichlorobenzene | 95-50-1 | ug/L | NS | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 |
| 1,2-Dichloroethane | 107-06-2 | ug/L | 0.6 | < 0.60 | 0.60 | < 0.60 | 0.60 | < 0.60 | 0.60 | < 0.60 | 0.60 | < 0.60 | 0.60 | < 0.60 | 0.60 | < 0.60 | 0.60 | < 0.60 | 0.60 |
| 1,2-Dichloropropane | 78-87-5 | ug/L | 1 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 |
| 1,3,5-Trimethylbenzene | 108-67-8 | ug/L | 5 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 |
| 1,3-Dichlorobenzene | 541-73-1 | ug/L | 3 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 |
| 1,3-Dichloropropane | 142-28-9 | ug/L | 5 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 |
| 1,4-Dichlorobenzene | 106-46-7 | ug/L | NS | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 |
| 2,2-Dichloropropane | 594-20-7 | ug/L | 5 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 |
| 2-Chlorotoluene | 95-49-8 | ug/L | 5 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 |
| 2-Hexanone | 591-78-6 | ug/L | 50 | < 5.0 | 5.0 | < 5.0 | 5.0 | < 5.0 | 5.0 | < 5.0 | 5.0 | < 5.0 | 5.0 | < 5.0 | 5.0 | < 5.0 | 5.0 | < 5.0 | 5.0 |
| 2-Isopropyltoluene | 527-84-4 | ug/L | 5 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 |
| 4-Chlorotoluene | 106-43-4 | ug/L | 5 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 |
| 4-Methyl-2-pentanone | 108-10-1 | ug/L | NS | < 5.0 | 5.0 | < 5.0 | 5.0 | < 5.0 | 5.0 | < 5.0 | 5.0 | < 5.0 | 5.0 | < 5.0 | 5.0 | < 5.0 | 5.0 | < 5.0 | 5.0 |
| Acetone | 67-64-1 | ug/L | 50 | < 25 | 25 | < 25 | 25 | < 25 | 25 | < 25 | 25 | < 25 | 25 | < 25 | 25 | < 25 | 25 | < 25 | 25 |
| Acrylonitrile | 107-13-1 | ug/L | 5 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 |
| Benzene | 71-43-2 | ug/L | 1 | < 0.70 | 0.70 | < 0.70 | 0.70 | < 0.70 | 0.70 | < 0.70 | 0.70 | < 0.70 | 0.70 | < 0.70 | 0.70 | < 0.70 | 0.70 | < 0.70 | 0.70 |
| Bromobenzene | 108-86-1 | ug/L | 5 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 |
| Bromochloromethane | 74-97-5 | ug/L | 5 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 |
| Bromodichloromethane | 75-27-4 | ug/L | 50 | < 0.50 | 0.50 | < 0.50 | 0.50 | < 0.50 | 0.50 | < 0.50 | 0.50 | < 0.50 | 0.50 | < 0.50 | 0.50 | < 0.50 | 0.50 | < 0.50 | 0.50 |
| Bromoform | 75-25-2 | ug/L | 50 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 |
| Bromomethane | 74-83-9 | ug/L | 5 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 |
| Carbon Disulfide | 75-15-0 | ug/L | NS | < 5.0 | 5.0 | < 5.0 | 5.0 | < 5.0 | 5.0 | < 5.0 | 5.0 | < 5.0 | 5.0 | < 5.0 | 5.0 | < 5.0 | 5.0 | < 5.0 | 5.0 |
| Carbon tetrachloride | 56-23-5 | ug/L | 5 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 |
| Chlorobenzene | 108-90-7 | ug/L | 5 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 |
| Chloroethane | 75-00-3 | ug/L | 5 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 |
| Chloroform | 67-66-3 | ug/L | 7 | 2 | 1.0 | 1.3 | 1.0 | 1.2 | 1.0 | 1.4 | 1.0 | 1.6 | 1.0 | 1.3 | 1.0 | 1.8 | 1.0 | < 1.0 | 1.0 |
| Chloromethane | 74-87-3 | ug/L | 5 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 |
| cis-1,2-Dichloroethene | 156-59-2 | ug/L | 5 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 |
| cis-1,3-Dichloropropene | 10061-01-5 | ug/L | 0.4 | < 0.40 | 0.40 | < 0.40 | 0.40 | < 0.40 | 0.40 | < 0.40 | 0.40 | < 0.40 | 0.40 | < 0.40 | 0.40 | < 0.40 | 0.40 | < 0.40 | 0.40 |
| Dibromochloromethane | 124-48-1 | ug/L | 50 | < 0.50 | 0.50 | < 0.50 | 0.50 | < 0.50 | 0.50 | < 0.50 | 0.50 | < 0.50 | 0.50 | < 0.50 | 0.50 | < 0.50 | 0.50 | < 0.50 | 0.50 |
| Dibromomethane | 74-95-3 | ug/L | 5 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 |
| Dichlorodifluoromethane | 75-71-8 | ug/L | 5 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 |
| Ethylbenzene | 100-41-4 | ug/L | 5 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 |
| Hexachlorobutadiene | 87-68-3 | ug/L | 0.5 | < 0.40 | 0.40 | < 0.40 | 0.40 | < 0.40 | 0.40 | < 0.40 | 0.40 | < 0.40 | 0.40 | < 0.40 | 0.40 | < 0.40 | 0.40 | < 0.40 | 0.40 |
| Isopropylbenzene | 98-82-8 | ug/L | 5 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 |
| m&p-Xylene | 179601-23-1 | ug/L | NS | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 |
| Methyl ethyl ketone | 78-93-3 | ug/L | 50 | < 5.0 | 5.0 | < 5.0 | 5.0 | < 5.0 | 5.0 | < 5.0 | 5.0 | < 5.0 | 5.0 | < 5.0 | 5.0 | < 5.0 | 5.0 | < 5.0 | 5.0 |
| Methyl t-butyl ether (MTBE) | 1634-04-4 | ug/L | NS | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 |
| Methylene chloride | 75-09-2 | ug/L | 5 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 |
| Naphthalene | 91-20-3 | ug/L | 10 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 |
| n-Butylbenzene | 104-51-8 | ug/L | 5 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 |
| n-Propylbenzene | 103-65-1 | ug/L | 5 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 |
| o-Xylene | 95-47-6 | ug/L | 5 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 |
| p-Isopropyltoluene | 99-87-6 | ug/L | 5 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 |
| sec-Butylbenzene | 135-98-8 | ug/L | 5 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 |
| Styrene | 100-42-5 | ug/L | 5 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 |
| tert-Butylbenzene | 98-06-6 | ug/L | 5 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 |
| Tetrachloroethene | 127-18-4 | ug/L | 5 | 1.2 | 1.0 | 20 | 1.0 | 18 | 1.0 | 1.8 | 1.0 | 3 | 1.0 | 14 | 1.0 | 1 | 1.0 | < 1.0 | 1.0 |
| Tetrahydrofuran (THF) | 109-99-9 | ug/L | 50 | < 2.5 | 2.5 | < 2.5 | 2.5 | < 2.5 | 2.5 | < 2.5 | 2.5 | < 2.5 | 2.5 | < 2.5 | 2.5 | < 2.5 | 2.5 | < 2.5 | 2.5 |
| Toluene | 108-88-3 | ug/L | 5 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 |
| Total Xylenes | 1330-20-7 | ug/L | 5 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 |
| trans-1,2-Dichloroethene | 156-60-5 | ug/L | 5 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 |
| trans-1,3-Dichloropropene | 10061-02-6 | ug/L | 0.4 | < 0.40 | 0.40 | < 0.40 | 0.40 | < 0.40 | 0.40 | < 0.40 | 0.40 | < 0.40 | 0.40 | < 0.40 | 0.40 | < 0.40 | 0.40 | < 0.40 | 0.40 |
| trans-1,4-dichloro-2-butene | 110-57-6 | ug/L | 5 | < 5.0 | 5.0 | < 5.0 | 5.0 | < 5.0 | 5.0 | < 5.0 | 5.0 | < 5.0 | 5.0 | < 5.0 | 5.0 | < 5.0 | 5.0 | < 5.0 | 5.0 |
| Trichloroethene | 79-01-6 | ug/L | 5 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 |
| Trichlorofluoromethane | 75-69-4 | ug/L | 5 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 |
| Trichlorotrifluoroethane | 76-13-1 | ug/L | 5 | < 1.0 | 1.0 | 1.1 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 |
| Vinyl chloride | 75-01-4 | ug/L | 2 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 | < 1.0 | 1.0 |
| **Semivolatiles By SW8270D** | | | | | | | | | | | | | | | | | | | |
| 1,2,4,5-Tetrachlorobenzene | 95-94-3 | ug/L | NS | < 3.3 | 3.3 | < 3.3 | 3.3 | < 3.3 | 3.3 | < 3.3 | 3.3 | < 3.3 | 3.3 | < 3.3 | 3.3 | < 3.3 | 3.3 | < 3.3 | 3.3 |
| 1,2,4-Trichlorobenzene | 120-82-1 | ug/L | NS | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 |
| 1,2-Dichlorobenzene | 95-50-1 | ug/L | NS | < 2.4 | 2.4 | < 2.4 | 2.4 | < 2.4 | 2.4 | < 2.4 | 2.4 | < 2.4 | 2.4 | < 2.4 | 2.4 | < 2.4 | 2.4 | < 2.4 | 2.4 |
| 1,2-Diphenylhydrazine | 122-66-7 | ug/L | NS | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 |
| 1,3-Dichlorobenzene | 541-73-1 | ug/L | 3 | < 2.4 | 2.4 | < 2.4 | 2.4 | < 2.4 | 2.4 | < 2.4 | 2.4 | < 2.4 | 2.4 | < 2.4 | 2.4 | < 2.4 | 2.4 | < 2.4 | 2.4 |
| 1,4-Dichlorobenzene | 106-46-7 | ug/L | NS | < 2.4 | 2.4 | < 2.4 | 2.4 | < 2.4 | 2.4 | < 2.4 | 2.4 | < 2.4 | 2.4 | < 2.4 | 2.4 | < 2.4 | 2.4 | < 2.4 | 2.4 |
| 2,4,5-Trichlorophenol | 95-95-4 | ug/L | 1 | < 0.94 | 0.94 | < 0.94 | 0.94 | < 0.94 | 0.94 | < 0.94 | 0.94 | < 0.94 | 0.94 | < 0.94 | 0.94 | < 0.94 | 0.94 | < 0.94 | 0.94 |
| 2,4,6-Trichlorophenol | 88-06-2 | ug/L | 1 | < 0.94 | 0.94 | < 0.94 | 0.94 | < 0.94 | 0.94 | < 0.94 | 0.94 | < 0.94 | 0.94 | < 0.94 | 0.94 | < 0.94 | 0.94 | < 0.94 | 0.94 |
| 2,4-Dichlorophenol | 120-83-2 | ug/L | 1 | < 0.94 | 0.94 | < 0.94 | 0.94 | < 0.94 | 0.94 | < 0.94 | 0.94 | < 0.94 | 0.94 | < 0.94 | 0.94 | < 0.94 | 0.94 | < 0.94 | 0.94 |
| 2,4-Dimethylphenol | 105-67-9 | ug/L | 1 | < 0.94 | 0.94 | < 0.94 | 0.94 | < 0.94 | 0.94 | < 0.94 | 0.94 | < 0.94 | 0.94 | < 0.94 | 0.94 | < 0.94 | 0.94 | < 0.94 | 0.94 |
| 2,4-Dinitrophenol | 51-28-5 | ug/L | 1 | < 0.94 | 0.94 | < 0.94 | 0.94 | < 0.94 | 0.94 | < 0.94 | 0.94 | < 0.94 | 0.94 | < 0.94 | 0.94 | < 0.94 | 0.94 | < 0.94 | 0.94 |
| 2,4-Dinitrotoluene | 121-14-2 | ug/L | 5 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 |
| 2,6-Dinitrotoluene | 606-20-2 | ug/L | 5 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 |
| 2-Chloronaphthalene | 91-58-7 | ug/L | 10 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 |
| 2-Chlorophenol | 95-57-8 | ug/L | 1 | < 0.94 | 0.94 | < 0.94 | 0.94 | < 0.94 | 0.94 | < 0.94 | 0.94 | < 0.94 | 0.94 | < 0.94 | 0.94 | < 0.94 | 0.94 | < 0.94 | 0.94 |
| 2-Methylphenol (o-cresol) | 95-48-7 | ug/L | 1 | < 0.94 | 0.94 | < 0.94 | 0.94 | < 0.94 | 0.94 | < 0.94 | 0.94 | < 0.94 | 0.94 | < 0.94 | 0.94 | < 0.94 | 0.94 | < 0.94 | 0.94 |
| 2-Nitroaniline | 88-74-4 | ug/L | 5 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 |
| 2-Nitrophenol | 88-75-5 | ug/L | 1 | < 0.94 | 0.94 | < 0.94 | 0.94 | < 0.94 | 0.94 | < 0.94 | 0.94 | < 0.94 | 0.94 | < 0.94 | 0.94 | < 0.94 | 0.94 | < 0.94 | 0.94 |
| 3&4-Methylphenol (m&p-cresol) | NX - M&P CRES | ug/L | NS | < 9.4 | 9.4 | < 9.4 | 9.4 | < 9.4 | 9.4 | < 9.4 | 9.4 | < 9.4 | 9.4 | < 9.4 | 9.4 | < 9.4 | 9.4 | < 9.4 | 9.4 |
| 3,3'-Dichlorobenzidine | 91-94-1 | ug/L | 5 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 |
| 3-Nitroaniline | 99-09-2 | ug/L | 5 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4,6-Dinitro-2-methylphenol | 534-52-1 | ug/L | 1 | < 0.94 | 0.94 | < 0.94 | 0.94 | < 0.94 | 0.94 | < 0.94 | 0.94 | < 0.94 | 0.94 | < 0.94 | 0.94 | < 0.94 | 0.94 | < 0.94 | 0.94 |
| 4-Bromophenyl phenyl ether | 101-55-3 | ug/L | NS | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 |
| 4-Chloro-3-methylphenol | 59-50-7 | ug/L | 1 | < 0.94 | 0.94 | < 0.94 | 0.94 | < 0.94 | 0.94 | < 0.94 | 0.94 | < 0.94 | 0.94 | < 0.94 | 0.94 | < 0.94 | 0.94 | < 0.94 | 0.94 |
| 4-Chloroaniline | 106-47-8 | ug/L | 5 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 |
| 4-Chlorophenyl phenyl ether | 7005-72-3 | ug/L | NS | < 0.94 | 0.94 | < 0.94 | 0.94 | < 0.94 | 0.94 | < 0.94 | 0.94 | < 0.94 | 0.94 | < 0.94 | 0.94 | < 0.94 | 0.94 | < 0.94 | 0.94 |
| 4-Nitroaniline | 100-01-6 | ug/L | 5 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 |
| 4-Nitrophenol | 100-02-7 | ug/L | 1 | < 0.94 | 0.94 | < 0.94 | 0.94 | < 0.94 | 0.94 | < 0.94 | 0.94 | < 0.94 | 0.94 | < 0.94 | 0.94 | < 0.94 | 0.94 | < 0.94 | 0.94 |
| Acetophenone | 98-86-2 | ug/L | NS | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 |
| Aniline | 62-53-3 | ug/L | 5 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 |
| Benzidine | 92-87-5 | ug/L | 5 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 |
| Benzoic acid | 65-85-0 | ug/L | NS | < 47 | 47 | < 47 | 47 | < 47 | 47 | < 47 | 47 | < 47 | 47 | < 47 | 47 | < 47 | 47 | < 47 | 47 |
| Benzyl butyl phthalate | 85-68-7 | ug/L | 50 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 |
| Bis(2-chloroethoxy)methane | 111-91-1 | ug/L | 5 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 |
| Bis(2-chloroethyl)ether | 111-44-4 | ug/L | 1 | < 0.94 | 0.94 | < 0.94 | 0.94 | < 0.94 | 0.94 | < 0.94 | 0.94 | < 0.94 | 0.94 | < 0.94 | 0.94 | < 0.94 | 0.94 | < 0.94 | 0.94 |
| Bis(2-chloroisopropyl)ether | 108-60-1 | ug/L | 5 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 |
| Bis(2-ethylhexyl)phthalate | 117-81-7 | ug/L | 5 | 1.1 | 0.94 | < 0.94 | 0.94 | < 0.94 | 0.94 | < 0.94 | 0.94 | < 0.94 | 0.94 | < 0.94 | 0.94 | < 0.94 | 0.94 | < 0.94 | 0.94 |
| Carbazole | 86-74-8 | ug/L | NS | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 |
| Dibenzofuran | 132-64-9 | ug/L | NS | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 |
| Diethyl phthalate | 84-66-2 | ug/L | 50 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 |
| Dimethylphthalate | 131-11-3 | ug/L | 50 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 |
| Di-n-butylphthalate | 84-74-2 | ug/L | 50 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 |
| Di-n-octylphthalate | 117-84-0 | ug/L | 50 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 |
| Hexachloroethane | 67-72-1 | ug/L | 5 | < 0.94 | 0.94 | < 0.94 | 0.94 | < 0.94 | 0.94 | < 0.94 | 0.94 | < 0.94 | 0.94 | < 0.94 | 0.94 | < 0.94 | 0.94 | < 0.94 | 0.94 |
| Isophorone | 78-59-1 | ug/L | 50 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 |
| N-Nitrosodi-n-propylamine | 621-64-7 | ug/L | NS | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 |
| N-Nitrosodiphenylamine | 86-30-6 | ug/L | 50 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 | < 4.7 | 4.7 |
| Pentachloronitrobenzene | 82-68-8 | ug/L | NS | < 2.4 | 2.4 | < 2.4 | 2.4 | < 2.4 | 2.4 | < 2.4 | 2.4 | < 2.4 | 2.4 | < 2.4 | 2.4 | < 2.4 | 2.4 | < 2.4 | 2.4 |
| Phenol | 108-95-2 | ug/L | 1 | < 0.94 | 0.94 | < 0.94 | 0.94 | < 0.94 | 0.94 | < 0.94 | 0.94 | < 0.94 | 0.94 | < 0.94 | 0.94 | < 0.94 | 0.94 | < 0.94 | 0.94 |
| **Semivolatiles (SIM) By SW8270D (SIM)** | | | | | | | | | | | | | | | | | | | |
| 2-Methylnaphthalene | 91-57-6 | ug/L | NS | < 0.47 | 0.47 | < 0.47 | 0.47 | < 0.47 | 0.47 | < 0.47 | 0.47 | < 0.47 | 0.47 | < 0.47 | 0.47 | < 0.47 | 0.47 | < 0.47 | 0.47 |
| Acenaphthene | 83-32-9 | ug/L | 20 | < 0.47 | 0.47 | < 0.47 | 0.47 | < 0.47 | 0.47 | < 0.47 | 0.47 | < 0.47 | 0.47 | < 0.47 | 0.47 | < 0.47 | 0.47 | < 0.47 | 0.47 |
| Acenaphthylene | 208-96-8 | ug/L | NS | < 0.47 | 0.47 | < 0.47 | 0.47 | < 0.47 | 0.47 | < 0.47 | 0.47 | < 0.47 | 0.47 | < 0.47 | 0.47 | < 0.47 | 0.47 | < 0.47 | 0.47 |
| Anthracene | 120-12-7 | ug/L | 50 | < 0.47 | 0.47 | < 0.47 | 0.47 | < 0.47 | 0.47 | < 0.47 | 0.47 | < 0.47 | 0.47 | < 0.47 | 0.47 | < 0.47 | 0.47 | < 0.47 | 0.47 |
| Benz(a)anthracene | 56-55-3 | ug/L | 0.002 | 0.16 | 0.02 | < 0.02 | 0.02 | < 0.02 | 0.02 | 0.03 | 0.02 | < 0.02 | 0.02 | < 0.02 | 0.02 | < 0.02 | 0.02 | < 0.02 | 0.02 |
| Benzo(a)pyrene | 50-32-8 | ug/L | NS | 0.16 | 0.02 | < 0.02 | 0.02 | < 0.02 | 0.02 | 0.02 | 0.02 | < 0.02 | 0.02 | < 0.02 | 0.02 | < 0.02 | 0.02 | < 0.02 | 0.02 |
| Benzo(b)fluoranthene | 205-99-2 | ug/L | 0.002 | 0.17 | 0.02 | < 0.02 | 0.02 | < 0.02 | 0.02 | 0.02 | 0.02 | < 0.02 | 0.02 | < 0.02 | 0.02 | < 0.02 | 0.02 | < 0.02 | 0.02 |
| Benzo(ghi)perylene | 191-24-2 | ug/L | NS | < 0.47 | 0.47 | < 0.47 | 0.47 | < 0.47 | 0.47 | < 0.47 | 0.47 | < 0.47 | 0.47 | < 0.47 | 0.47 | < 0.47 | 0.47 | < 0.47 | 0.47 |
| Benzo(k)fluoranthene | 207-08-9 | ug/L | 0.002 | 0.14 | 0.02 | < 0.02 | 0.02 | < 0.02 | 0.02 | 0.02 | 0.02 | < 0.02 | 0.02 | < 0.02 | 0.02 | < 0.02 | 0.02 | < 0.02 | 0.02 |
| Chrysene | 218-01-9 | ug/L | 0.002 | 0.15 | 0.02 | < 0.02 | 0.02 | < 0.02 | 0.02 | 0.02 | 0.02 | < 0.02 | 0.02 | < 0.02 | 0.02 | < 0.02 | 0.02 | < 0.02 | 0.02 |
| Dibenz(a,h)anthracene | 53-70-3 | ug/L | NS | < 0.47 | 0.47 | < 0.47 | 0.47 | < 0.47 | 0.47 | < 0.47 | 0.47 | < 0.47 | 0.47 | < 0.47 | 0.47 | < 0.47 | 0.47 | < 0.47 | 0.47 |
| Fluoranthene | 206-44-0 | ug/L | 50 | < 0.47 | 0.47 | < 0.47 | 0.47 | < 0.47 | 0.47 | < 0.47 | 0.47 | < 0.47 | 0.47 | < 0.47 | 0.47 | < 0.47 | 0.47 | < 0.47 | 0.47 |
| Fluorene | 86-73-7 | ug/L | 50 | < 0.47 | 0.47 | < 0.47 | 0.47 | < 0.47 | 0.47 | < 0.47 | 0.47 | < 0.47 | 0.47 | < 0.47 | 0.47 | < 0.47 | 0.47 | < 0.47 | 0.47 |
| Hexachlorobenzene | 118-74-1 | ug/L | 0.04 | < 0.04 | 0.04 | < 0.04 | 0.04 | < 0.04 | 0.04 | < 0.04 | 0.04 | < 0.04 | 0.04 | < 0.04 | 0.04 | < 0.04 | 0.04 | < 0.04 | 0.04 |
| Hexachlorobutadiene | 87-68-3 | ug/L | 0.5 | < 0.47 | 0.47 | < 0.47 | 0.47 | < 0.47 | 0.47 | < 0.47 | 0.47 | < 0.47 | 0.47 | < 0.47 | 0.47 | < 0.47 | 0.47 | < 0.47 | 0.47 |
| Hexachlorocyclopentadiene | 77-47-4 | ug/L | 5 | < 0.47 | 0.47 | < 0.47 | 0.47 | < 0.47 | 0.47 | < 0.47 | 0.47 | < 0.47 | 0.47 | < 0.47 | 0.47 | < 0.47 | 0.47 | < 0.47 | 0.47 |
| Indeno(1,2,3-cd)pyrene | 193-39-5 | ug/L | 0.002 | 0.15 | 0.02 | < 0.02 | 0.02 | < 0.02 | 0.02 | 0.02 | 0.02 | < 0.02 | 0.02 | < 0.02 | 0.02 | < 0.02 | 0.02 | < 0.02 | 0.02 |
| Naphthalene | 91-20-3 | ug/L | 10 | < 0.47 | 0.47 | < 0.47 | 0.47 | < 0.47 | 0.47 | < 0.47 | 0.47 | < 0.47 | 0.47 | < 0.47 | 0.47 | < 0.47 | 0.47 | < 0.47 | 0.47 |
| Nitrobenzene | 98-95-3 | ug/L | 0.4 | < 0.38 | 0.38 | < 0.38 | 0.38 | < 0.38 | 0.38 | < 0.38 | 0.38 | < 0.38 | 0.38 | < 0.38 | 0.38 | < 0.38 | 0.38 | < 0.38 | 0.38 |
| N-Nitrosodimethylamine | 62-75-9 | ug/L | NS | < 0.47 | 0.47 | < 0.47 | 0.47 | < 0.47 | 0.47 | < 0.47 | 0.47 | < 0.47 | 0.47 | < 0.47 | 0.47 | < 0.47 | 0.47 | < 0.47 | 0.47 |
| Pentachlorophenol | 87-86-5 | ug/L | 1 | < 0.47 | 0.47 | < 0.47 | 0.47 | < 0.47 | 0.47 | < 0.47 | 0.47 | < 0.47 | 0.47 | < 0.47 | 0.47 | < 0.47 | 0.47 | < 0.47 | 0.47 |
| Phenanthrene | 85-01-8 | ug/L | 50 | < 0.47 | 0.47 | < 0.47 | 0.47 | < 0.47 | 0.47 | < 0.47 | 0.47 | < 0.47 | 0.47 | < 0.47 | 0.47 | < 0.47 | 0.47 | < 0.47 | 0.47 |
| Pyrene | 129-00-0 | ug/L | 50 | < 0.47 | 0.47 | < 0.47 | 0.47 | < 0.47 | 0.47 | < 0.47 | 0.47 | < 0.47 | 0.47 | < 0.47 | 0.47 | < 0.47 | 0.47 | < 0.47 | 0.47 |
| Pyridine | 110-86-1 | ug/L | 50 | < 0.47 | 0.47 | < 0.47 | 0.47 | < 0.47 | 0.47 | < 0.47 | 0.47 | < 0.47 | 0.47 | < 0.47 | 0.47 | < 0.47 | 0.47 | < 0.47 | 0.47 |

Result Detected

RL Exceeds Criteria

Result Exceeds Criteria

**G. C. Environmental, Inc.**
**101 Westmoreland Avenue,White Plains, New York**
**Table 2-3-Summary of Groundwater Results from 2018 to 2021**
**for Compounds of Contaminated Concern**

| | Unit | 2018 | 2019 | 2020 | 2021 |
|---|---|---|---|---|---|
| **MW-1** | | | | | |
| 1,1,1-Trichloroethane | ug/L | 36 | NA | NA | 25 |
| Tetrachloroethene | ug/L | 1.4 | NA | NA | 1.2 |
| **MW-2** | | | | | |
| 1,1,1-Trichloroethane | ug/L | 8.6 | 4.5 | 21 | 17 |
| Tetrachloroethene | ug/L | 16 | 23 | 19 | 20 |
| **MW-3** | | | | | |
| 1,1,1-Trichloroethane | ug/L | 6.7 | 3.8 | 5.9 | 3.5 |
| Tetrachloroethene | ug/L | 6.2 | 11 | 15 | 18 |
| **MW-4** | | | | | |
| 1,1,1-Trichloroethane | ug/L | 10 | 6.4 | 8.9 | 12 |
| Tetrachloroethene | ug/L | 1.8 | 2 | 1.8 | 1.8 |
| **MW-5** | | | | | |
| 1,1,1-Trichloroethane | ug/L | 6.9 | 5.1 | 8.6 | 8.5 |
| Tetrachloroethene | ug/L | 2.7 | 2.6 | 2.3 | 3 |
| **MW-6** | | | | | |
| 1,1,1-Trichloroethane | ug/L | 6.1 | 3.3 | 6.1 | 6.1 |
| Tetrachloroethene | ug/L | 9.6 | 8.3 | 9 | 14 |
| **MW-7** | | | | | |
| 1,1,1-Trichloroethane | ug/L | 32 | 32 | 27 | 35 |
| Tetrachloroethene | ug/L | 1 | <1.0 | <1.0 | 1 |
| **MW-8** | | | | | |
| 1,1,1-Trichloroethane | ug/L | 20 | 9.9 | 16 | 13 |
| Tetrachloroethene | ug/L | 1.4 | 1.1 | <1.0 | <1.0 |

**G. C. Environmental, Inc.**
**101 Westmoreland Avenue,White Plains, New York**
**Table 3-PID Readings, October 2020 thru October 2021**

| Monitoring Points Onsite | Unit | PID Level Measurement January 2021 | PID Level Measurement June 2021 | PID Level Measurement September 2021 |
|---|---|---|---|---|
| | | | | |
| SP-1 (Blower Discharge) | ppm | 0.00 | 0.00 | 0.00 |
| SP-2 (Discharge of the Carbon Vessel) | ppm | 0.00 | 0.00 | 0.00 |
| SV-1 (SVE -1) | ppm | 0.00 | 0.00 | 0.00 |
| SV-2 (SVE -2) | ppm | 0.00 | 0.00 | 0.00 |

Note:
ppm: part per million

**G. C. Environmental, Inc.**
**101 Westmoreland Avenue,White Plains, New York**
**Table 4-Depth of GW, October 2020 thru October 2021**

| Monitoring Wells Onsite | Unit | GW Level Measurement January 2021 | GW Level Measurement June 2021 | GW Level Measurement September 2021 |
|---|---|---|---|---|
| | | | | |
| MW-1 | ft | 28.1 | 27.7 | 27.61 |
| MW-2 | ft | 26.8 | 26.4 | 26.4 |
| MW-3 | ft | 26.6 | 26.2 | 23.62 |
| MW-4 | ft | 28.32 | 27.3 | 26.68 |
| MW-5 | ft | 28.1 | 28 | 26.75 |
| MW-6 | ft | 27.9 | 27.9 | 27.2 |
| MW-7 | ft | 27.2 | 27.1 | 26.8 |
| MW-8 | ft | 27.9 | 27.8 | 27.7 |
| MW-9 | ft | N/A | N/A | N/A |

Note: MW-9 is not accesible.

**G. C. Environmental, Inc.**
**101 Westmoreland Avenue,White Plains, New York**
**Table 5-Mass Removal Table, October 2020 thru October 2021**
**Target Compounds**

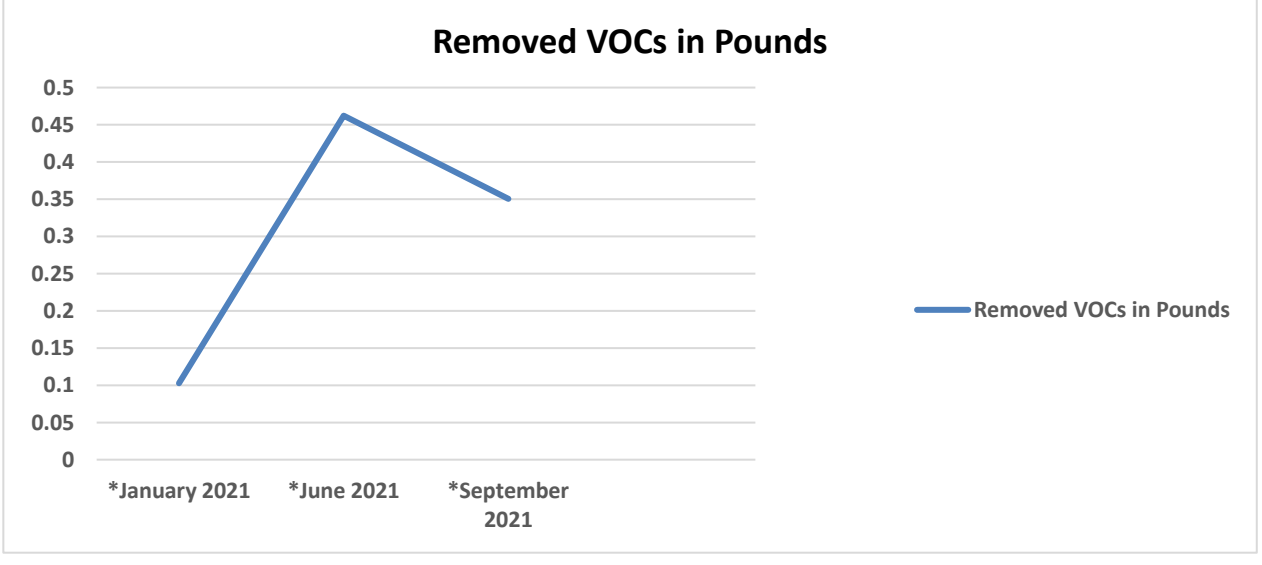
| Monitoring Wells Onsite | Mass Emission Rate of Contaminant Lbs/day -Influent SP1 | Mass Emission Rate of Contaminant Lbs/day- Effluent SP2 | Days in Period | Pounds VOCs Removed During Period |
|---|---|---|---|---|
| September 2020 - January 2021 | 0.001048037 | 4.11841E-05 | 102 | 0.102698993 |
| February 2021 - June 2021 | 0.003829764 | 1.61E-04 | 126 | 0.462218305 |
| June 2021 - September 2021 | 0.000145213 | 1.45E-04 | 84 | 0.350697727 |

# LIST OF GRAPHICS

## Graphic 1 - AAA - Removed VOCs in Pounds

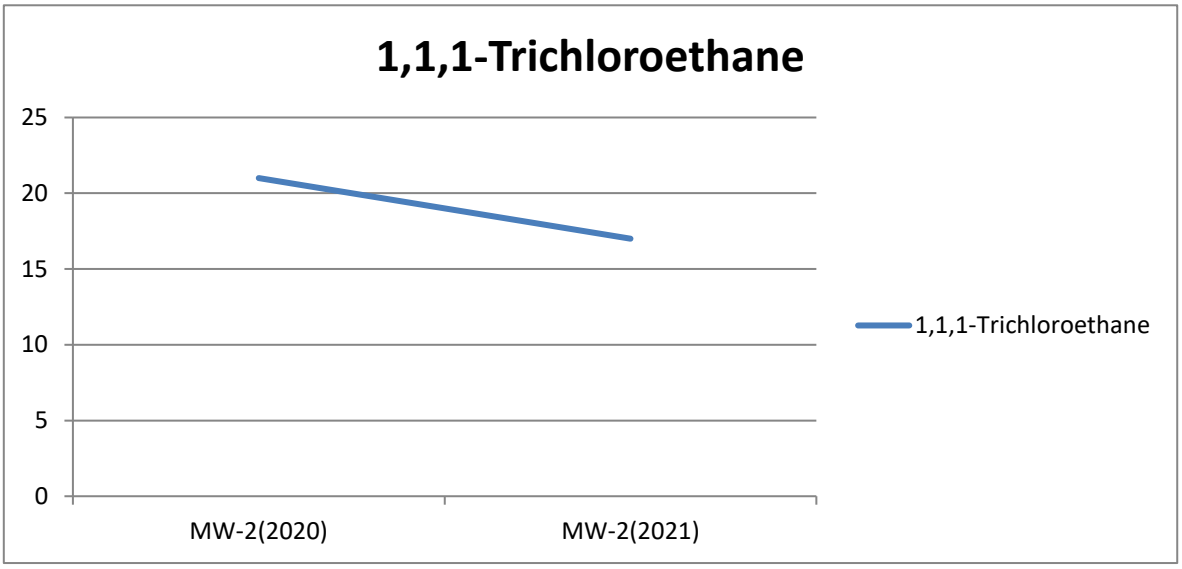
| **Target Compounds** | **Break Down Compounds** |
|---|---|
| 1,1,1-Trichloroethane | 1,1-Dichloroethane |
| Tetrachloroethene | 1,1-Dichloroethene |
| Trichloroethene | Cis-1,2-Dichloroethene |
| | Trans-1,2-Dichloroethene |
| | Vinyl Chloride |

| **Sampling Month** | **Removed VOCs in Pounds** |
|---|---|
| *January 2021 | 0.102698993 |
| *June 2021 | 0.462218305 |
| *September 2021 | 0.350697727 |

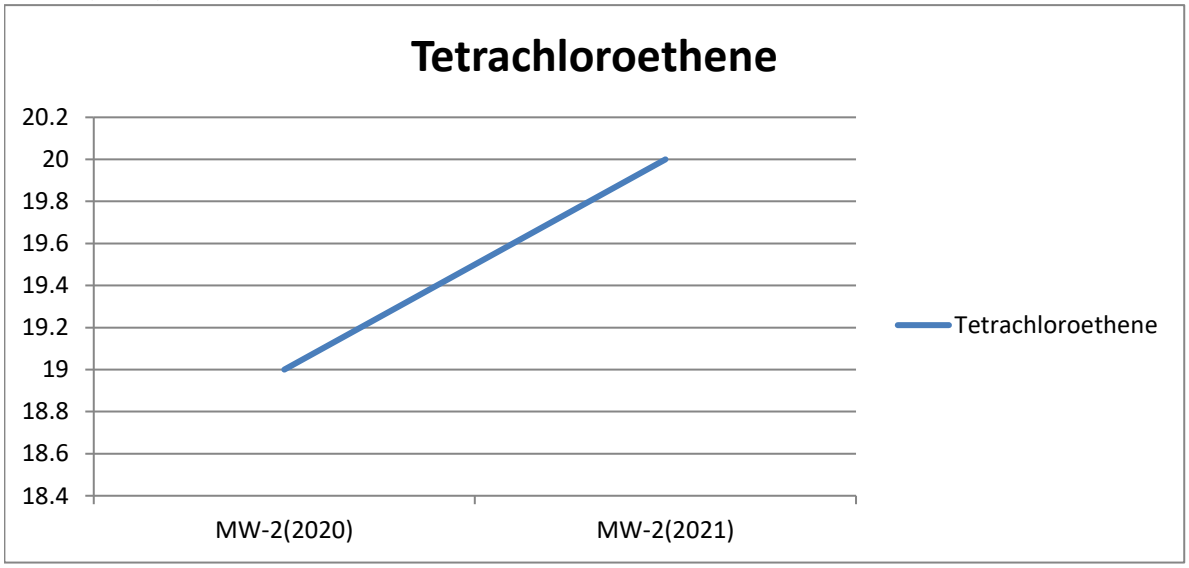


**Graphic 2-1 - AAA**
**1,1,1-Trichloroethane /Tetrachloroethene (ug/l) in Groundwater (MW-2)**

| | **1,1,1-Trichloroethane** |
|---|---|
| MW-1(2020) | NA |
| MW-1(2021) | 21 |

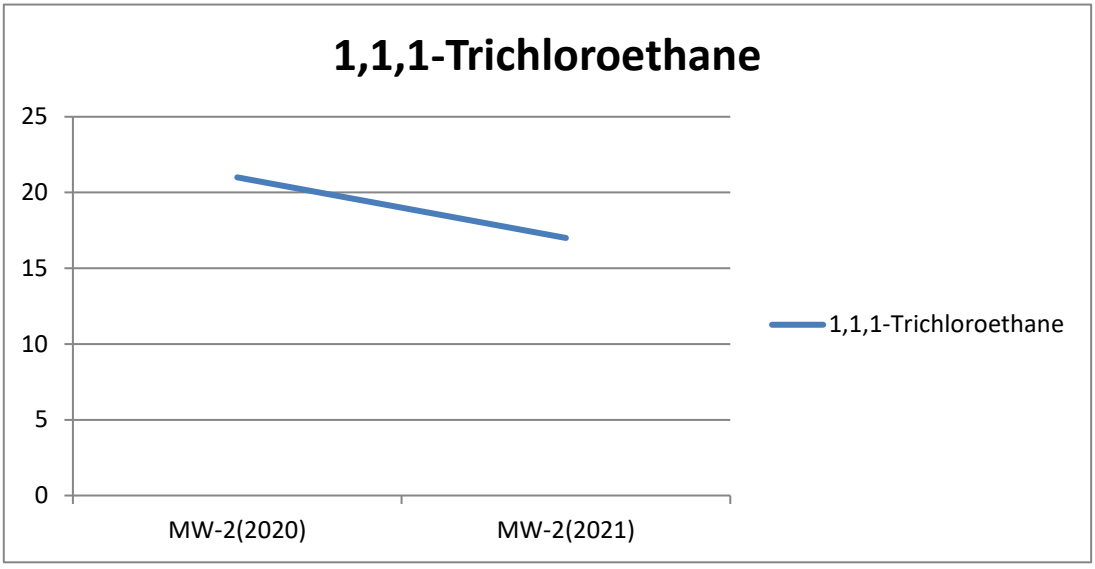



| | **Tetrachloroethene** |
|---|---|
| MW-1(2020) | NA |
| MW-1(2021) | 19 |

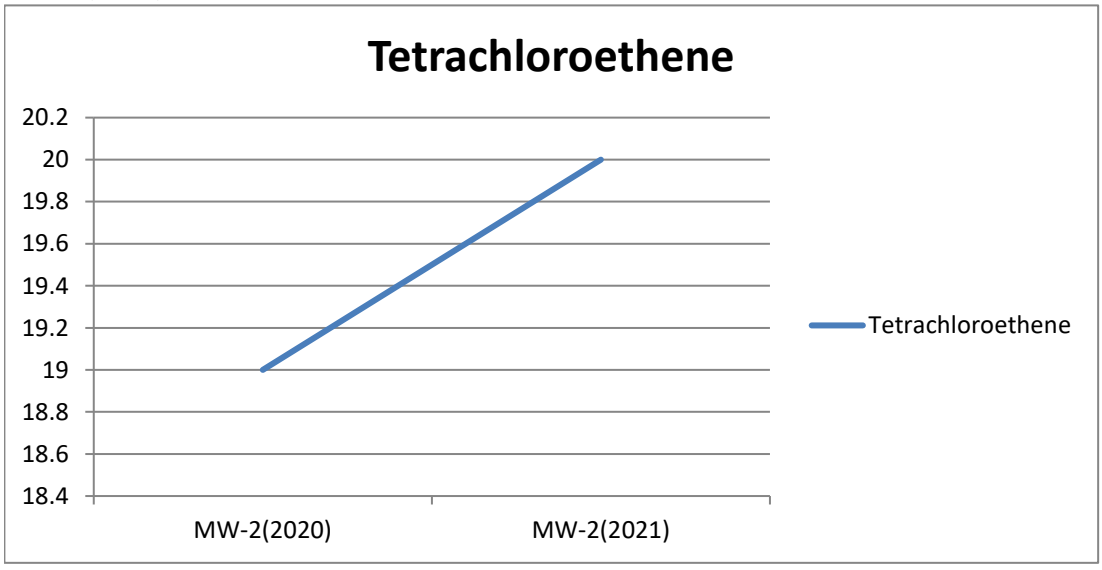


**Graphic 2-2 - AAA**
**1,1,1-Trichloroethane /Tetrachloroethene (ug/l) in Groundwater (MW-2)**

| | **1,1,1-Trichloroethane** |
|---|---|
| MW-2(2020) | 21 |
| MW-2(2021) | 17 |

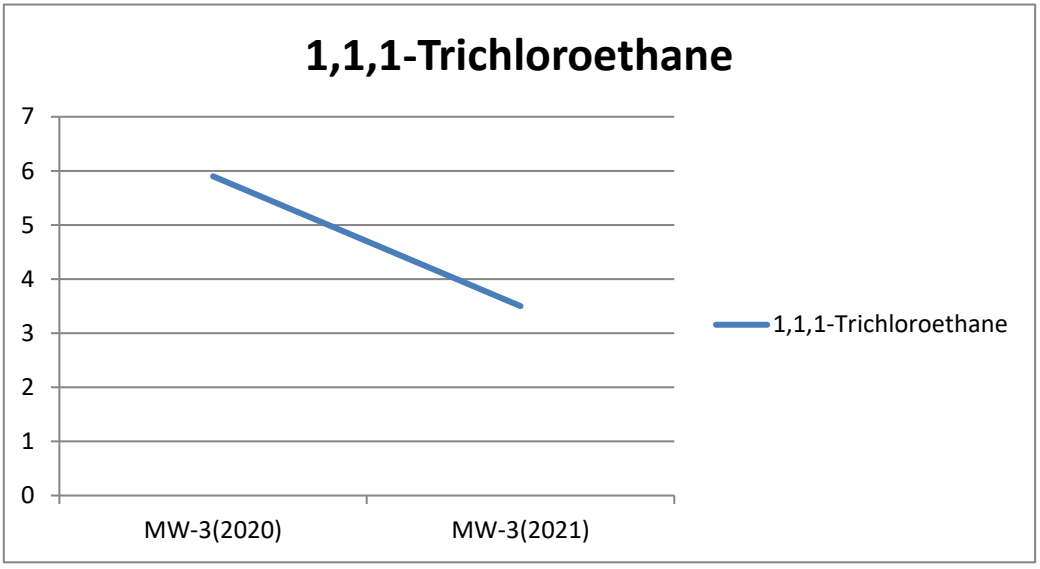



| | **Tetrachloroethene** |
|---|---|
| MW-2(2020) | 19 |
| MW-2(2021) | 20 |

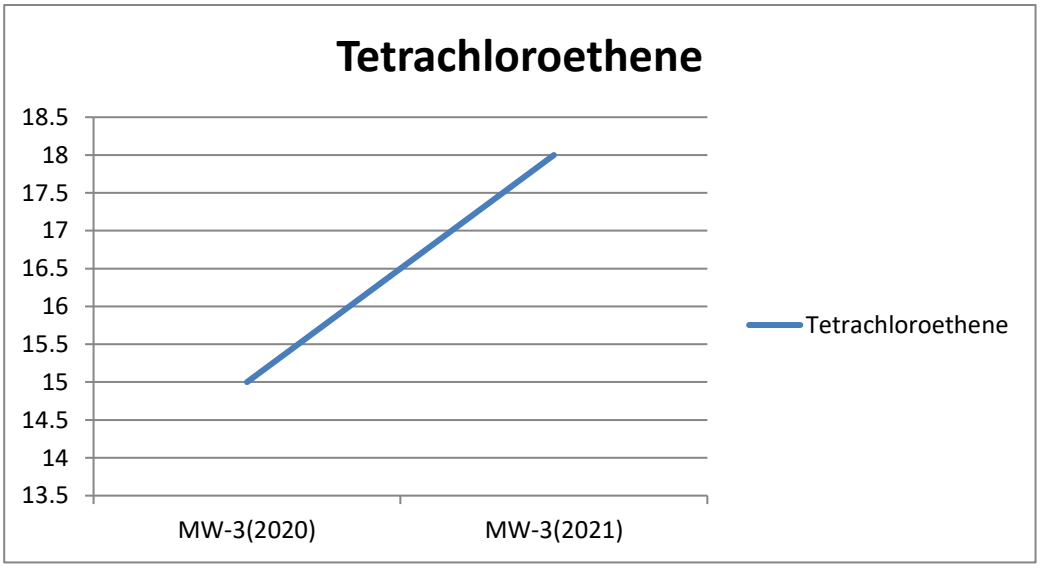


**Graphic 2-3 - AAA**
**1,1,1-Trichloroethane /Tetrachloroethene (ug/l) in Groundwater (MW-3)**

| | **1,1,1-Trichloroethane** |
|---|---|
| MW-3(2020) | 5.9 |
| MW-3(2021) | 3.5 |



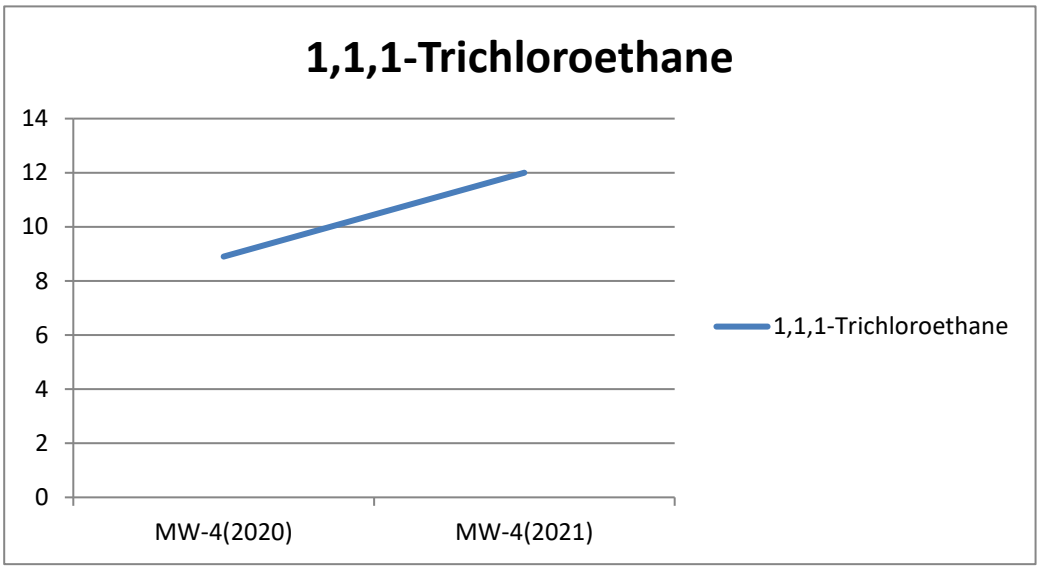

| | **Tetrachloroethene** |
|---|---|
| MW-3(2020) | 15 |
| MW-3(2021) | 18 |



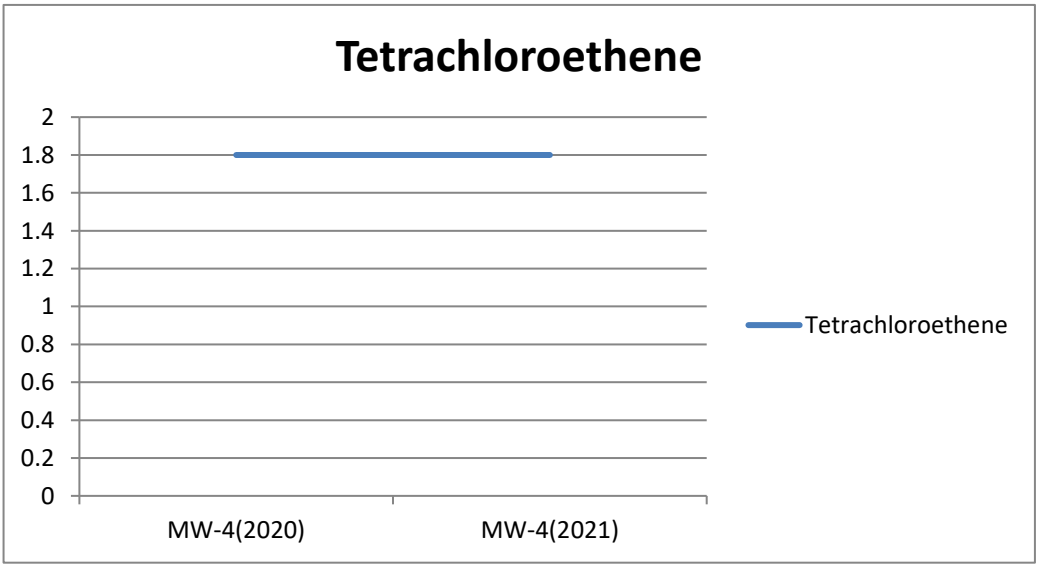
**Graphic 2-4 - AAA**

**1,1,1-Trichloroethane /Tetrachloroethene (ug/l) in Groundwater (MW-4)**

| | **1,1,1-Trichloroethane** |
|---|---|
| MW-4(2020) | 8.9 |
| MW-4(2021) | 12 |



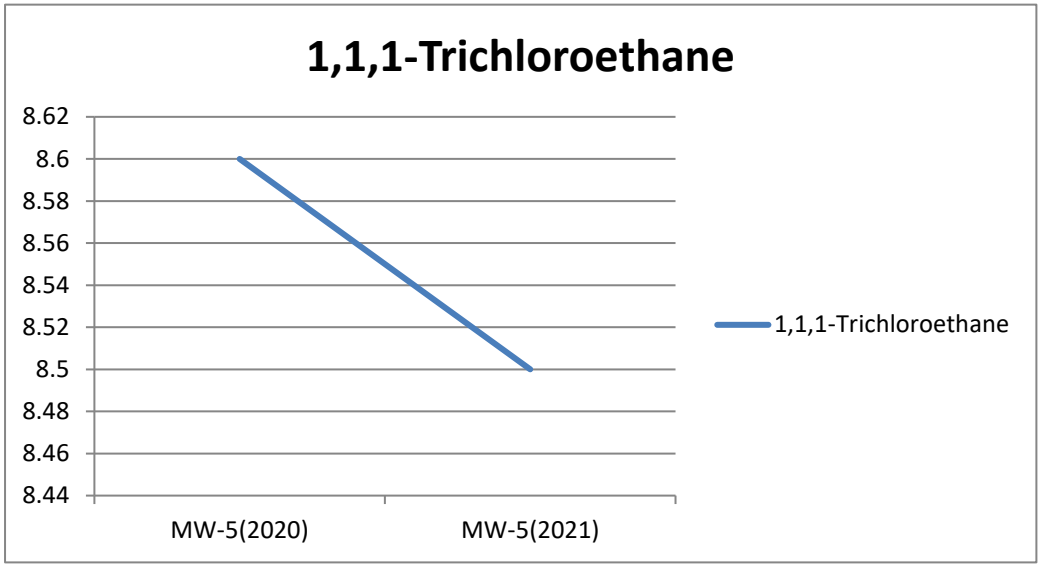

| | **Tetrachloroethene** |
|---|---|
| MW-4(2020) | 1.8 |
| MW-4(2021) | 1.8 |



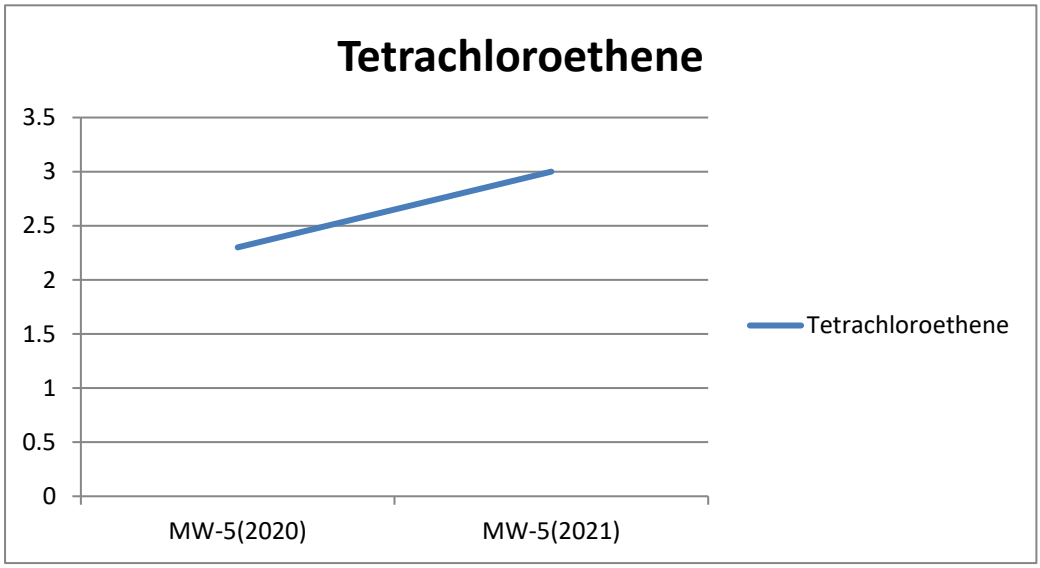
**Graphic 2-5- AAA**

**1,1,1-Trichloroethane /Tetrachloroethene (ug/l) in Groundwater (MW-5)**

| | **1,1,1-Trichloroethane** |
|---|---|
| MW-5(2020) | 8.6 |
| MW-5(2021) | 8.5 |



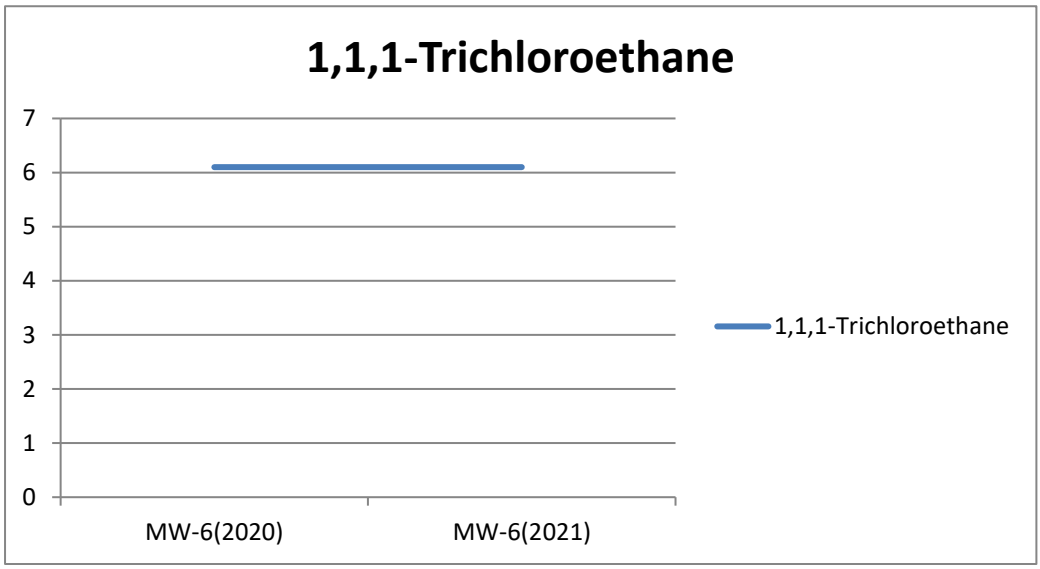

| | **Tetrachloroethene** |
|---|---|
| MW-5(2020) | 2.3 |
| MW-5(2021) | 3 |



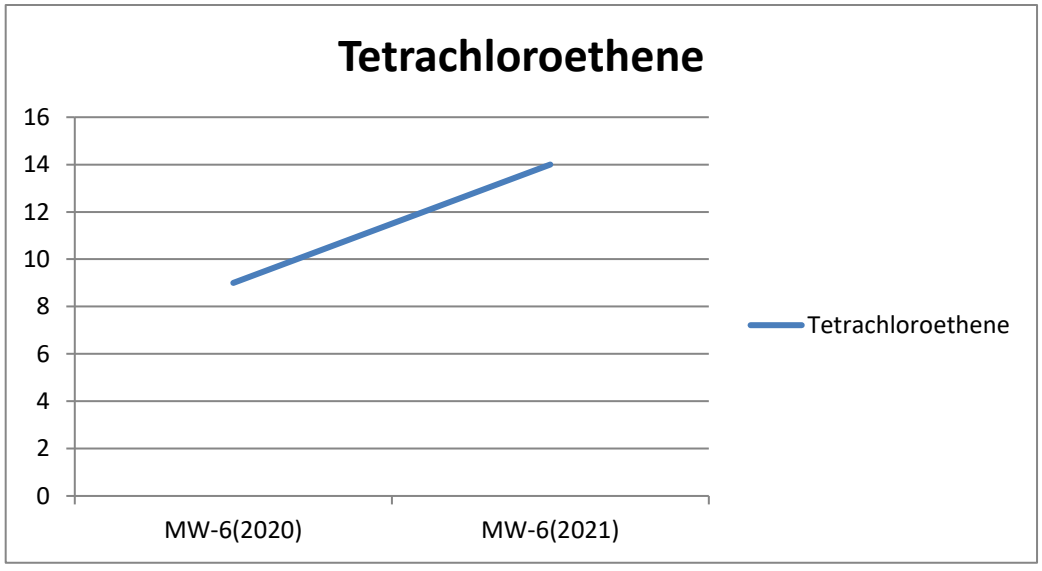
**Graphic 2-6 - AAA**

**1,1,1-Trichloroethane /Tetrachloroethene (ug/l) in Groundwater (MW-6)**

| | **1,1,1-Trichloroethane** |
|---|---|
| MW-6(2020) | 6.1 |
| MW-6(2021) | 6.1 |



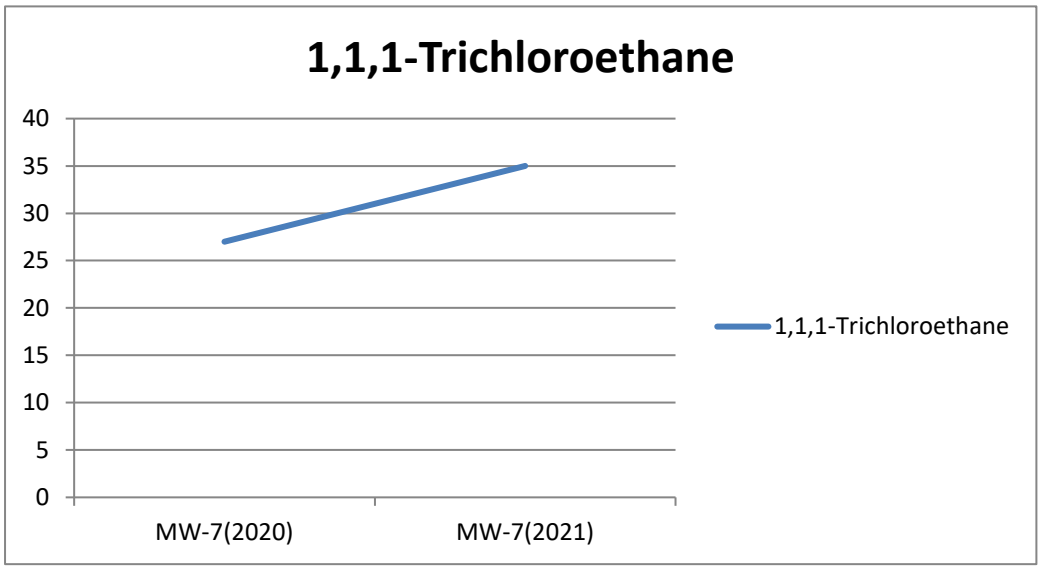

| | **Tetrachloroethene** |
|---|---|
| MW-6(2020) | 9 |
| MW-6(2021) | 14 |



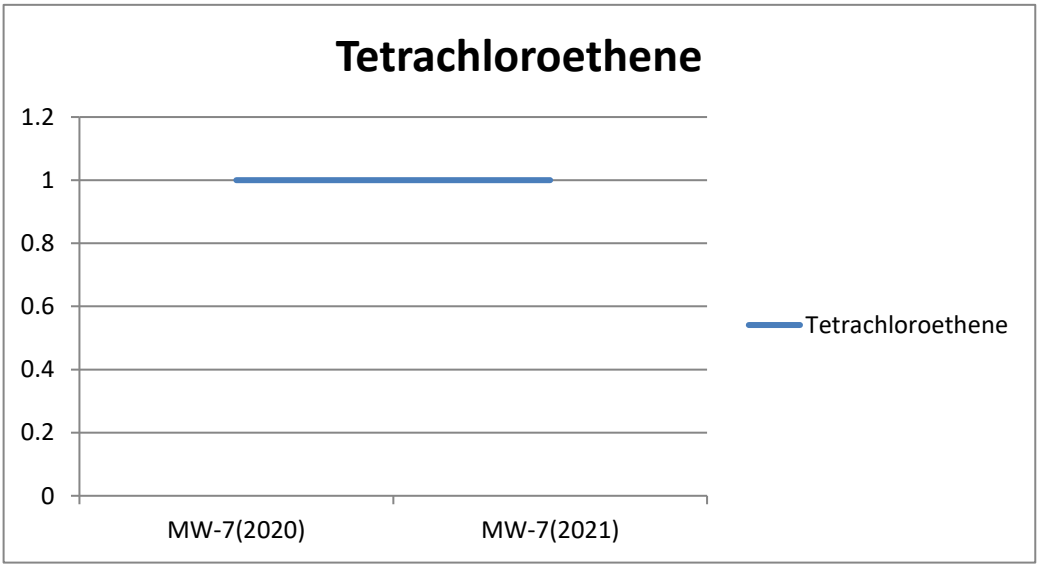
**Graphic 2-7 - AAA**

**1,1,1-Trichloroethane /Tetrachloroethene (ug/l) in Groundwater (MW-7)**

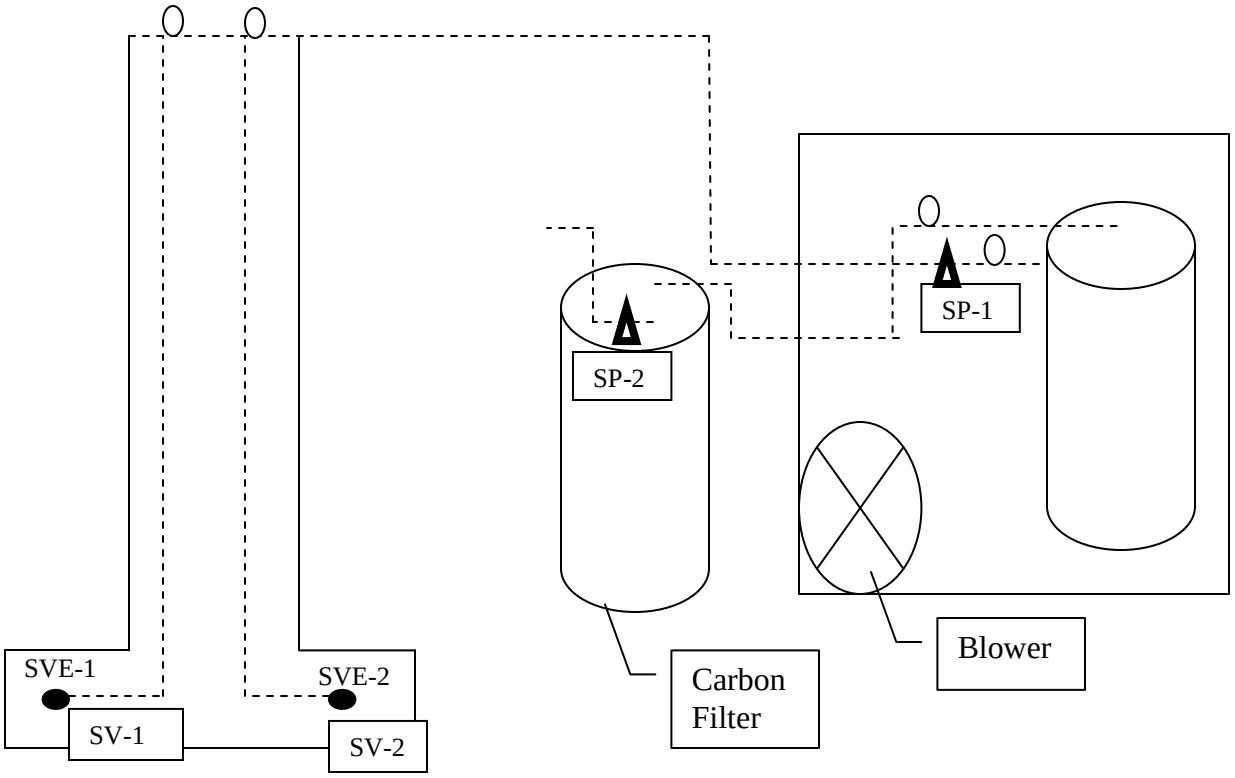
| | **1,1,1-Trichloroethane** |
|---|---|
| MW-7(2020) | 27 |
| MW-7(2021) | 35 |




| | **Tetrachloroethene** |
|---|---|
| MW-7(2020) | 1 |
| MW-7(2021) | 1 |



# LIST OF FIGURES




**LEGEND:**

- Soil Vapor Extraction Wells
- Manifold Vacuum Gauges
- System Piping
- Air Sampling Locations

Note: Drawings is not scaled. All locations are approximate.

G. C. Environmental, Inc.
CONSULTANTS CONTRACTORS

22 OAK STREET
BAY SHORE, NEW YORK 11706

TEL: (631) 206-3700
FAX: (631) 206-3729

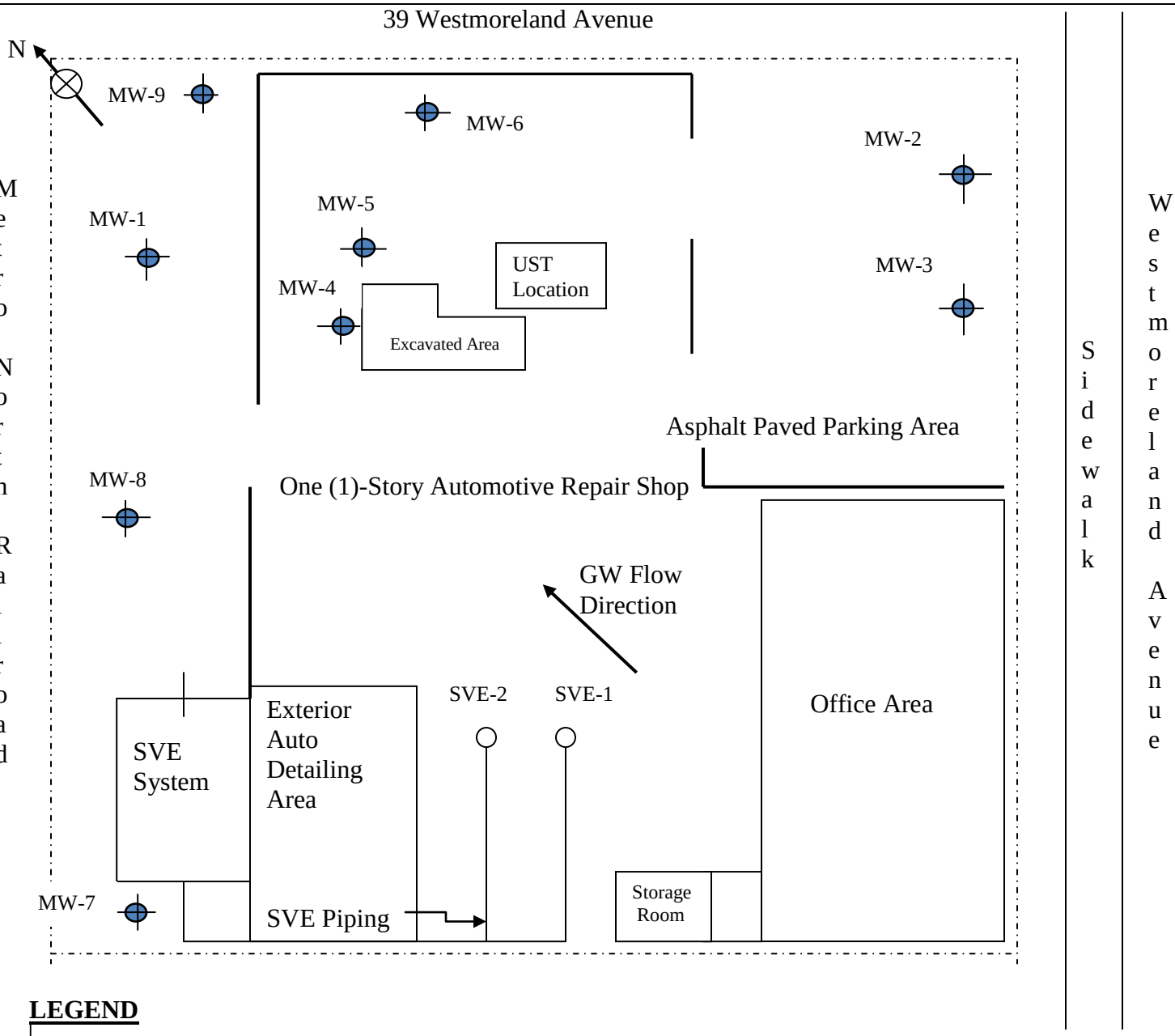
BASIC SVE SYSTEM/AIR SAMPLING DIAGRAM

101 WESTMORELAND AVENUE
WHITE PLAINS, NY 10606

GCE PROJECT NO.: 05-003-00

FIGURE 1

SVE SYTEM/
AIR SAMPLING
DIAGRAM




**LEGEND**

- Monitoring Well Location
- Soil Vapor Extraction Point
- Property Line

Note: Drawings is not scaled. All locations are approximate.

G. C. ENVIRONMENTAL, INC
CONSULTANTS CONTRACTORS

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BAY SHORE, NEW YORK 11706

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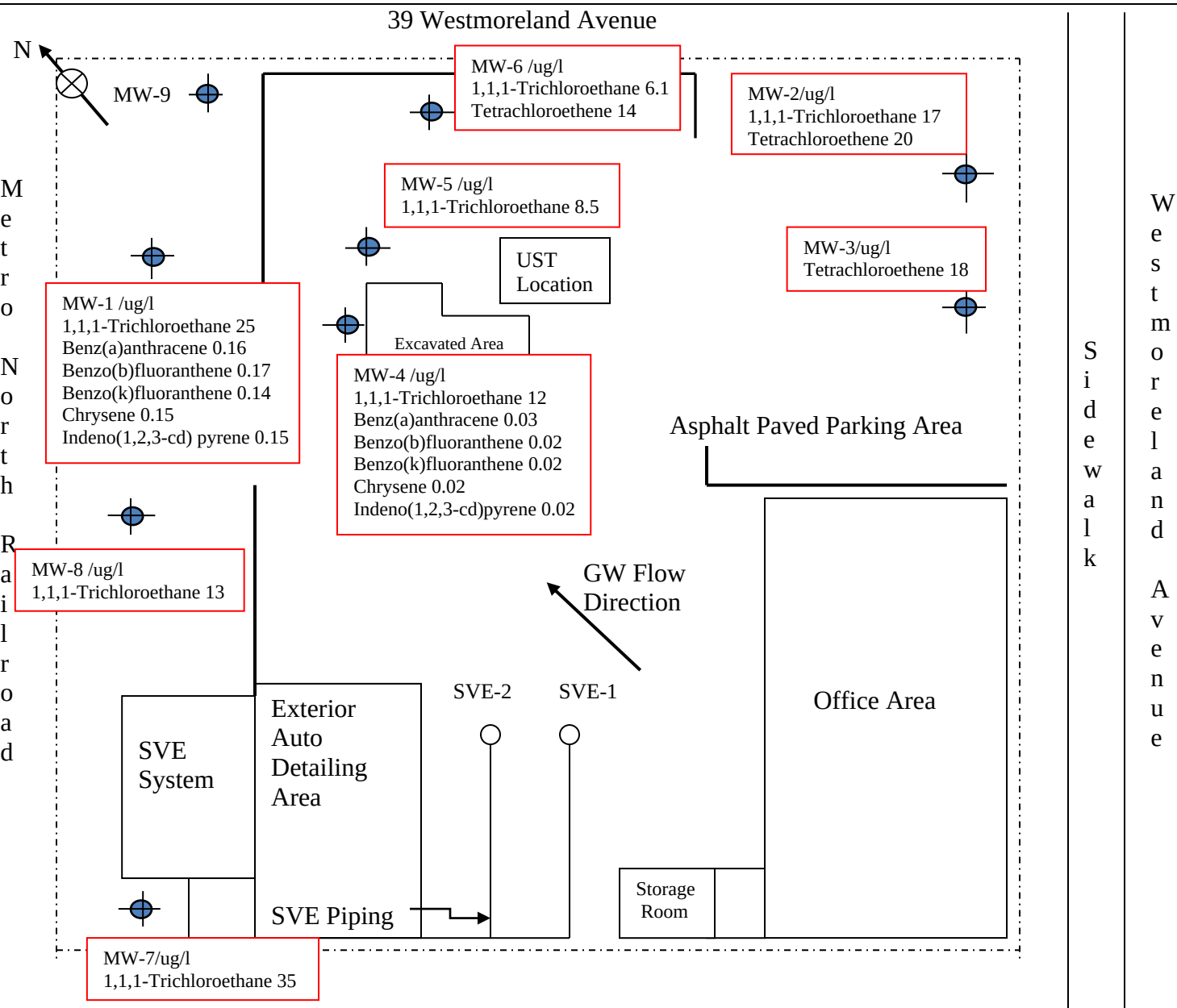
SITE MAP

101 WESTMORELAND AVENUE
WHITE PLAINS, NY 10606

GCE PROJECT NO.: 05-003-00

FIGURE 2

SITE MAP




**LEGEND**

- Monitoring Well Location
- Soil Vapor Extraction Point
- Property Line

Note: Drawings is not scaled. All locations are approximate.

G. C. ENVIRONMENTAL, INC
CONSULTANTS CONTRACTORS

22 OAK STREET
BAY SHORE, NEW YORK 11706

TEL: (631) 206-3700
FAX: (631) 206-3729

EXCEEDANCES
GW RESULTS

101 WESTMORELAND AVENUE
WHITE PLAINS, NY 10606

GCE PROJECT NO.: 05-003-00

FIGURE 3

EXCEEDANCES
GW RESULTS

# APPENDIX A

## *NYSDEC Institutional and Engineering Controls Certification Form*

Enclosure 2

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Site Management Periodic Review Report Notice
Institutional and Engineering Controls Certification Form

**Site Details** **Box 1**

**Site No.** **360095**

**Site Name Automobile Club of New York**

Site Address: 101 Westmoreland Avenue Zip Code: 10606
City/Town: White Plains
County: Westchester
Site Acreage: 0.200

Reporting Period: October 14, 2020 to October 14, 2021

| | YES | NO |
|---|---|---|
| 1. Is the information above correct? | ☒ | ☐ |
| If NO, include handwritten above or on a separate sheet. | | |
| 2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period? | ☐ | ☒ |
| 3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))? | ☐ | ☒ |
| 4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period? | ☐ | ☒ |
| **If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.** | | |
| 5. Is the site currently undergoing development? | ☐ | ☒ |

**Box 2**

| | YES | NO |
|---|---|---|
| 6. Is the current site use consistent with the use(s) listed below? Commercial and Industrial | ☒ | ☐ |
| 7. Are all ICs in place and functioning as designed? | ☒ | ☐ |

**IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.**

**A Corrective Measures Work Plan must be submitted along with this form to address these issues.**

_____ _____

Signature of Owner, Remedial Party or Designated Representative Date

SITE NO. 360095 Box 3

**Description of Institutional Controls**

| Parcel | Owner | Institutional Control |
|---|---|---|
| **125.82-1-1** | Automobile Club of New York, Inc. | Ground Water Use Restriction<br>Soil Management Plan<br>Landuse Restriction<br>Monitoring Plan<br>Site Management Plan<br>O&M Plan<br>IC/EC Plan |

The property may be used for commercial as described in 6 NYCRR Part 375-1.8(g)(2)(iii) and Industrial as described in 6 NYCRR Part 375-1.8(g)(2)(iv);

The use of groundwater underlying the property is prohibited without necessary water quality treatment as determined by the NYSDOH or the Westchester County Department of Health to render it safe for use as drinking water or for industrial purposes, and the user must first notify and obtain written approval to do so from the Department;

Monitoring must be performed as defined in the SMP;

All future activities on the property that will disturb remaining contaminated material must be conducted in accordance with the SMP;

**Box 4**

**Description of Engineering Controls**

| Parcel | Engineering Control |
|---|---|
| **125.82-1-1** | Cover System<br>Air Sparging/Soil Vapor Extraction |

Site Cover

Soil Vapor Extraction System

Box 5

## Periodic Review Report (PRR) Certification Statements

1. I certify by checking "YES" below that:

   a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the Engineering Control certification;

   b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and compete.

| YES | NO |
|---|---|
| ☒ | ☐ |

2. For each Engineering control listed in Box 4, I certify by checking "YES" below that all of the following statements are true:

   (a) The Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;

   (b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;

   (c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;

   (d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and

   (e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

| YES | NO |
|---|---|
| ☒ | ☐ |

**IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.**

**A Corrective Measures Work Plan must be submitted along with this form to address these issues.**

Signature of Owner, Remedial Party or Designated Representative

Date

**IC CERTIFICATIONS**
**SITE NO. 360095**

**Box 6**

**SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE**

I certify that all information and statements in Boxes 1,2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I James Clifford at 14 Kellum Place, Garden City, NY 11530,
print name print business address

am certifying as Remedial Party/Owner (Owner or Remedial Party)

for the Site named in the Site Details Section of this form.

by: [signature] 9/30/2021
Signature of Owner, Remedial Party, or Designated Representative Rendering Certification — Date

## EC CERTIFICATIONS

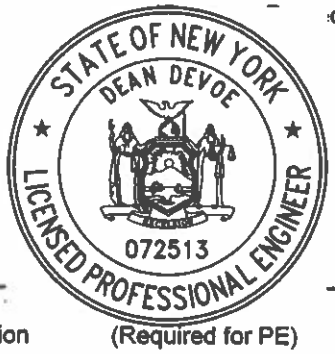
Box 7

### Qualified Environmental Professional Signature

I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Dean Devoe (print name) at 22 Oak Street Bayshore NY (print business address)

am certifying as a Qualified Environmental Professional for the Automobile Club of New York (dial Party)




Dean Devoe

Signature of Qualified Environmental Professional, the Owner or Remedial Party, Rendering Certification (Required for PE)

10-4-21

Date

# APPENDIX B

## *SVE Inspection System/Cover System Monitoring Forms*

**G. C. Environmental, Inc.**
**101 Westmoreland Ave., White Plains, New York (AAA)**
**Soil Vapor Extraction System**
**Soil Vapor Operation Log**

| Field Tecnician | Inspection Date | Vacuum Pressure Readings (Inches of water) | | | | Flow Rate Reading (cfm) | Temperat. reading | PID readings (ppm) | | | | Operator | Water level within moisture seperator drum |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Blower | Exhaust | SVE-1 | SVE-2 | | | Blower Exhaust | GAC Exhaust | SVE-1 | SVE-2 | | |
| | | | | | | | | | | | | | |
| Scott Mahoney | 10.23.20 | -49 | -50 | -50 | -50 | 5 | — | 0 | 0 | 0 | 0 | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | |

**G. C. Environmental, Inc.**
**101 Westmoreland Ave., White Plains, New York (AAA)**
**Soil Vapor Extraction System**
**SVE System & Cover System Monitoring Checklist**

| | |
|---|---|
| **Inspection Date:** | 10/29/2020 |
| **Field Technician Name:** | Scott Mlodynia |

**SVE System & Cover System Monitoring Checklist**

| | Yes | No | N/A | Notes |
|---|---|---|---|---|
| Check vacuum gauges to ensure that max. vacuum is not exceeded. | ✓ | | | |
| Inspect air filter on optional CFM gauge for moisture. Drain high vacuum switch. | ✓ | | | |
| Check all switches for proper operation. Check all wiring for loose connections. | ✓ | | | |
| Check water level within the moisture separator drum. Check operation of optional transfer pump. | ✓ | | | |
| Check for loose fittings and bolts. | ✓ | | | |
| Check moisture separator for pressure drop across filter/moisture demister. | ✓ | | | |
| Take picture of all vacuum gauges. | ✓ | | | |
| Take picture of the CFM gauge. | ✓ | | | |
| Take picture of the PID Readings at all points. | ✓ | | | |
| Take picture of the cover system (concrete and asphalt sub-slab) at all areas within and outside the building footprint. | ✓ | | | |

**G. C. Environmental, Inc.**
**101 Westmoreland Ave., White Plains, New York (AAA)**
**Soil Vapor Extraction System**
**Soil Vapor Operation Log**

| Field Tecnician | Inspection Date | Vacuum Pressure Readings (Inches of water) | | | | Flow Rate Reading (cfm) | Temperat. reading | PID readings (ppm) | | | | Operator | Water level within moisture seperator drum |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Blower | Exhaust | SVE-1 | SVE-2 | | | Blower Exhaust | GAC Exhaust | SVE-1 | SVE-2 | | |
| | | | | | | | | | | | | | |
| Scott | 11.25.20 | -42 | -42 | -50 | -30 | 5 | - | 0 | 0 | 0 | 0 | | 1/3 tank |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | |

**G. C. Environmental, Inc.**
**101 Westmoreland Ave., White Plains, New York (AAA)**
**Soil Vapor Extraction System**
**SVE System & Cover System Monitoring Checklist**

| | |
|---|---|
| **Inspection Date:** | 11/25/2020 |
| **Field Technician Name:** | Scott |

**SVE System & Cover System Monitoring Checklist**

| | Yes | No | N/A | Notes |
|---|---|---|---|---|
| Check vacuum gauges to ensure that max. vacuum is not exceeded. | ✓ | | | |
| Inspect air filter on optional CFM gauge for moisture. Drain high vacuum switch. | ✓ | | | |
| Check all switches for proper operation. Check all wiring for loose connections. | ✓ | | | |
| Check water level within the moisture separator drum. Check operation of optional transfer pump. | ✓ | | | |
| Check for loose fittings and bolts. | ✓ | | | |
| Check moisture separator for pressure drop across filter/moisture demister. | ✓ | | | |
| Take picture of all vacuum gauges. | ✓ | | | Taken |
| Take picture of the CFM gauge. | ✓ | | | 5 |
| Take picture of the PID Readings at all points. | ✓ | | | 0.00 |
| Take picture of the cover system (concrete and asphalt sub-slab) at all areas within and outside the building footprint. | ✓ | | | |

**G. C. Environmental, Inc.**
**101 Westmoreland Ave., White Plains, New York (AAA)**
**Soil Vapor Extraction System**
**Soil Vapor Operation Log**

| Field Tecnician | Inspection Date | Vacuum Pressure Readings (Inches of water) | | | | Flow Rate Reading (cfm) | Temperat. reading | PID readings (ppm) | | | | Operator | Water level within moisture seperator drum |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Blower | Exhaust | SVE-1 | SVE-2 | | | Blower Exhaust | GAC Exhaust | SVE-1 | SVE-2 | | |
| Scott Wright | 1/12/21 | -11 | -52 | -52 | -52 | 50 | — | 0 | 0 | 0 | 0 | —— | Water & Foam |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | |

**G. C. Environmental, Inc.**
**101 Westmoreland Ave., White Plains, New York (AAA)**
**Soil Vapor Extraction System**
**SVE System & Cover System Monitoring Checklist**

| | |
|---|---|
| **Inspection Date:** | January 12, 2021 |
| **Field Technician Name:** | Scott |

**SVE System & Cover System Monitoring Checklist**

| | Yes | No | N/A | Notes |
|---|---|---|---|---|
| Check vacuum gauges to ensure that max. vacuum is not exceeded. | ✓ | | | All checked |
| Inspect air filter on optional CFM gauge for moisture. Drain high vacuum switch. | ✓ | | | |
| Check all switches for proper operation. Check all wiring for loose connections. | ✓ | | | |
| Check water level within the moisture separator drum. Check operation of optional transfer pump. | | | | Looks the drum was frozen. |
| Check for loose fittings and bolts. | ✓ | | | |
| Check moisture separator for pressure drop across filter/moisture demister. | | | | |
| Take picture of all vacuum gauges. | ✓ | | | Vaccum on the blower was not working. |
| Take picture of the CFM gauge. | ✓ | | | |
| Take picture of the PID Readings at all points. | ✓ | | | |
| Take picture of the cover system (concrete and asphalt sub-slab) at all areas within and outside the building footprint. | ✓ | | | Nothing than usual |

**G. C. Environmental, Inc.**
**101 Westmoreland Ave., White Plains, New York (AAA)**
**Soil Vapor Extraction System**
**Soil Vapor Operation Log**

| Field Tecnician | Inspection Date | Vacuum Pressure Readings (Inches of water) | | | | Flow Rate Reading (cfm) | Temperat. reading | PID readings (ppm) | | | | Operator | Water level within moisture seperator drum |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Blower | Exhaust | SVE-1 | SVE-2 | | | Blower Exhaust | GAC Exhaust | SVE-1 | SVE-2 | | |
| Scott Mly. | 1.28.21 | 0 | 0 | 0 | 0 | — | — | 0 | 0 | 0 | 0 | | trace water |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | |

**G. C. Environmental, Inc.**
**101 Westmoreland Ave., White Plains, New York (AAA)**
**Soil Vapor Extraction System**
**SVE System & Cover System Monitoring Checklist**

| | |
|---|---|
| **Inspection Date:** | 11/28/2021 |
| **Field Technician Name:** | Scott Mly. |

**SVE System & Cover System Monitoring Checklist**

| | Yes | No | N/A | Notes |
|---|---|---|---|---|
| Check vacuum gauges to ensure that max. vacuum is not exceeded. | ✓ | | | Vacuum gauges do not work. |
| Inspect air filter on optional CFM gauge for moisture. Drain high vacuum switch. | ✓ | | | |
| Check all switches for proper operation. Check all wiring for loose connections. | ✓ | | | |
| Check water level within the moisture separator drum. Check operation of optional transfer pump. | | | | Half full brown water |
| Check for loose fittings and bolts. | ✓ | | | |
| Check moisture separator for pressure drop across filter/moisture demister. | ✓ | | | |
| Take picture of all vacuum gauges. | ✓ | | | In the server. |
| Take picture of the CFM gauge. | ✓ | | | |
| Take picture of the PID Readings at all points. | ✓ | | | 0.0 |
| Take picture of the cover system (concrete and asphalt sub-slab) at all areas within and outside the building footprint. | ✓ | | | In the server. |

**G. C. Environmental, Inc.**
**101 Westmoreland Ave., White Plains, New York (AAA)**
**Soil Vapor Extraction System**
**Soil Vapor Operation Log**

| Field Tecnician | Inspection Date | Vacuum Pressure Readings (Inches of water) | | | | Flow Rate Reading (cfm) | Temperat. reading | PID readings (ppm) | | | | Operator | Water level within moisture seperator drum |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Blower | Exhaust | SVE-1 | SVE-2 | | | Blower Exhaust | GAC Exhaust | SVE-1 | SVE-2 | | |
| | | | | | | | | | | | | | |
| Scott | 2.23.21 | — | — | — | — | | — | | | | | | — |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | |

**G. C. Environmental, Inc.**
**101 Westmoreland Ave., White Plains, New York (AAA)**
**Soil Vapor Extraction System**
**SVE System & Cover System Monitoring Checklist**

| | |
|---|---|
| **Inspection Date:** | 2/23/21 |
| **Field Technician Name:** | Scott |

**SVE System & Cover System Monitoring Checklist**

| | Yes | No | N/A | Notes |
|---|---|---|---|---|
| Check vacuum gauges to ensure that max. vacuum is not exceeded. | ✓ | | | fixed on that day |
| Inspect air filter on optional CFM gauge for moisture. Drain high vacuum switch. | ✓ | | | 11 |
| Check all switches for proper operation. Check all wiring for loose connections. | ✓ | | | |
| Check water level within the moisture separator drum. Check operation of optional transfer pump. | ✓ | | | Water was removed |
| Check for loose fittings and bolts. | ✓ | | | |
| Check moisture separator for pressure drop across filter/moisture demister. | ✓ | | | |
| Take picture of all vacuum gauges. | ✓ | | | Gage was replaced |
| Take picture of the CFM gauge. | ✓ | | | |
| Take picture of the PID Readings at all points. | ✓ | | | |
| Take picture of the cover system (concrete and asphalt sub-slab) at all areas within and outside the building footprint. | ✓ | | | |

**G. C. Environmental, Inc.**
**101 Westmoreland Ave., White Plains, New York (AAA)**
**Soil Vapor Extraction System**
**Soil Vapor Operation Log**

| Field Tecnician | Inspection Date | Vacuum Pressure Readings (Inches of water) | | | | Flow Rate Reading (cfm) | Temperat. reading | PID readings (ppm) | | | | Operator | Water level within moisture seperator drum |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Blower | Exhaust | SVE-1 | SVE-2 | | | Blower Exhaust | GAC Exhaust | SVE-1 | SVE-2 | | |
| Tom Baker | 6.2.21 | -52 | -52 | -52 | -52 | 5 | - | 0 | 0 | 0 | 0 | | None. |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | |

**G. C. Environmental, Inc.**
**101 Westmoreland Ave., White Plains, New York (AAA)**
**Soil Vapor Extraction System**
**SVE System & Cover System Monitoring Checklist**

| | |
|---|---|
| **Inspection Date:** | 4.2.21 |
| **Field Technician Name:** | Tom Becker |

**SVE System & Cover System Monitoring Checklist**

| | Yes | No | N/A | Notes |
|---|---|---|---|---|
| Check vacuum gauges to ensure that max. vacuum is not exceeded. | ✓ | | | After sampling the system was turned on. |
| Inspect air filter on optional CFM gauge for moisture. Drain high vacuum switch. | ✓ | | | |
| Check all switches for proper operation. Check all wiring for loose connections. | ✓ | | | |
| Check water level within the moisture separator drum. Check operation of optional transfer pump. | ✓ | | | Water was detected. |
| Check for loose fittings and bolts. | ✓ | | | |
| Check moisture separator for pressure drop across filter/moisture demister. | ✓ | | | |
| Take picture of all vacuum gauges. | ✓ | | | Taken pictures |
| Take picture of the CFM gauge. | ✓ | | | |
| Take picture of the PID Readings at all points. | ✓ | | | Taken pictures |
| Take picture of the cover system (concrete and asphalt sub-slab) at all areas within and outside the building footprint. | ✓ | | | Taken pictures |

**G. C. Environmental, Inc.**
**101 Westmoreland Ave., White Plains, New York (AAA)**
**Soil Vapor Extraction System**
**Soil Vapor Operation Log**

| Field Tecnician | Inspection Date | Vacuum Pressure Readings (Inches of water) | | | | Flow Rate Reading (cfm) | Temperat. reading | PID readings (ppm) | | | | Operator | Water level within moisture seperator drum |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Blower | Exhaust | SVE-1 | SVE-2 | | | Blower Exhaust | GAC Exhaust | SVE-1 | SVE-2 | | |
| | | | | | | | | | | | | | |
| Scott | 4/29/21 | -52 | 52 | 50 | 50 | 5 | — | 0 | 0 | 0 | 0 | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | |

**G. C. Environmental, Inc.**
**101 Westmoreland Ave., White Plains, New York (AAA)**
**Soil Vapor Extraction System**
**SVE System & Cover System Monitoring Checklist**

| | |
|---|---|
| **Inspection Date:** | 4/29/21 |
| **Field Technician Name:** | Scott |

**SVE System & Cover System Monitoring Checklist**

| | Yes | No | N/A | Notes |
|---|---|---|---|---|
| Check vacuum gauges to ensure that max. vacuum is not exceeded. | ✓ | | | |
| Inspect air filter on optional CFM gauge for moisture. Drain high vacuum switch. | ✓ | | | |
| Check all switches for proper operation. Check all wiring for loose connections. | ✓ | | | |
| Check water level within the moisture separator drum. Check operation of optional transfer pump. | ✓ | | | |
| Check for loose fittings and bolts. | ✓ | | | |
| Check moisture separator for pressure drop across filter/moisture demister. | ✓ | | | |
| Take picture of all vacuum gauges. | ✓ | | | |
| Take picture of the CFM gauge. | ✓ | | | |
| Take picture of the PID Readings at all points. | ✓ | | | |
| Take picture of the cover system (concrete and asphalt sub-slab) at all areas within and outside the building footprint. | ✓ | | | |

**G. C. Environmental, Inc.**
**101 Westmoreland Ave., White Plains, New York (AAA)**
**Soil Vapor Extraction System**
**Soil Vapor Operation Log**

| Field Tecnician | Inspection Date | Vacuum Pressure Readings (Inches of water) | | | | Flow Rate Reading (cfm) | Temperat. reading | PID readings (ppm) | | | | Operator | Water level within moisture seperator drum |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Blower | Exhaust | SVE-1 | SVE-2 | | | Blower Exhaust | GAC Exhaust | SVE-1 | SVE-2 | | |
| | | | | | | | | | | | | | 1 |
| Scott | 5.28.24 | 50 | 50 | 52 | 52 | 5 | — | 0 | 0 | 0 | 0 | | 1/4 drm |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
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**G. C. Environmental, Inc.**
**101 Westmoreland Ave., White Plains, New York (AAA)**
**Soil Vapor Extraction System**
**SVE System & Cover System Monitoring Checklist**

| | |
|---|---|
| **Inspection Date:** | 5/28/21 |
| **Field Technician Name:** | Scott |

**SVE System & Cover System Monitoring Checklist**

| | Yes | No | N/A | Notes |
|---|---|---|---|---|
| Check vacuum gauges to ensure that max. vacuum is not exceeded. | ✓ | | | |
| Inspect air filter on optional CFM gauge for moisture. Drain high vacuum switch. | ✓ | | | |
| Check all switches for proper operation. Check all wiring for loose connections. | ✓ | | | |
| Check water level within the moisture separator drum. Check operation of optional transfer pump. | ✓ | | | |
| Check for loose fittings and bolts. | ✓ | | | |
| Check moisture separator for pressure drop across filter/moisture demister. | ✓ | | | |
| Take picture of all vacuum gauges. | ✓ | | | Taken |
| Take picture of the CFM gauge. | ✓ | | | Taken - 5 |
| Take picture of the PID Readings at all points. | ✓ | | | 0.00 |
| Take picture of the cover system (concrete and asphalt sub-slab) at all areas within and outside the building footprint. | ✓ | | | |

**G. C. Environmental, Inc.**
**101 Westmoreland Ave., White Plains, New York (AAA)**
**Soil Vapor Extraction System**
**Soil Vapor Operation Log**

| Field Tecnician | Inspection Date | Vacuum Pressure Readings (Inches of water) | | | | Flow Rate Reading (cfm) | Temperat. reading | PID readings (ppm) | | | | Operator | Water level within moisture seperator drum |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Blower | Exhaust | SVE-1 | SVE-2 | | | Blower Exhaust | GAC Exhaust | SVE-1 | SVE-2 | | |
| | | | | | | | | | | | | | |
| Scott | 6.29.21 | 48 | 48 | 50 | 50 | 5 | — | 0 | 0 | 0 | 0 | | No water |
| | | | | | | | | | | | | | |
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| | | | | | | | | | | | | |

**G. C. Environmental, Inc.**
**101 Westmoreland Ave., White Plains, New York (AAA)**
**Soil Vapor Extraction System**
**SVE System & Cover System Monitoring Checklist**

| | |
|---|---|
| **Inspection Date:** | 6/28/21 |
| **Field Technician Name:** | Scott |

## SVE System & Cover System Monitoring Checklist

| | Yes | No | N/A | Notes |
|---|---|---|---|---|
| Check vacuum gauges to ensure that max. vacuum is not exceeded. | ✓ | | | |
| Inspect air filter on optional CFM gauge for moisture. Drain high vacuum switch. | ✓ | | | |
| Check all switches for proper operation. Check all wiring for loose connections. | ✓ | | | |
| Check water level within the moisture separator drum. Check operation of optional transfer pump. | ✓ | | | |
| Check for loose fittings and bolts. | ✓ | | | |
| Check moisture separator for pressure drop across filter/moisture demister. | ✓ | | | |
| Take picture of all vacuum gauges. | ✓ | | | |
| Take picture of the CFM gauge. | ✓ | | | |
| Take picture of the PID Readings at all points. | ✓ | | | |
| Take picture of the cover system (concrete and asphalt sub-slab) at all areas within and outside the building footprint. | ✓ | | | |

**G. C. Environmental, Inc.**
**101 Westmoreland Ave., White Plains, New York (AAA)**
**Soil Vapor Extraction System**
**Soil Vapor Operation Log**

| Field Tecnician | Inspection Date | Vacuum Pressure Readings (Inches of water) | | | | Flow Rate Reading (cfm) | Temperat. reading | PID readings (ppm) | | | | Operator | Water level within moisture seperator drum |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Blower | Exhaust | SVE-1 | SVE-2 | | | Blower Exhaust | GAC Exhaust | SVE-1 | SVE-2 | | |
| Scott Mylander | 7/28/21 | -64 | -47 | -48 | -68 | 50 | — | 0 | 0 | 0 | 0 | | |
| | | | | | | | | | | | | | |
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**G. C. Environmental, Inc.**
**101 Westmoreland Ave., White Plains, New York (AAA)**
**Soil Vapor Extraction System**
**SVE System & Cover System Monitoring Checklist**

| | |
|---|---|
| **Inspection Date:** | 7/28/21 |
| **Field Technician Name:** | Scott Mlodynia |

**SVE System & Cover System Monitoring Checklist**

| | Yes | No | N/A | Notes |
|---|---|---|---|---|
| Check vacuum gauges to ensure that max. vacuum is not exceeded. | ✓ | | | |
| Inspect air filter on optional CFM gauge for moisture. Drain high vacuum switch. | ✓ | | | |
| Check all switches for proper operation. Check all wiring for loose connections. | ✓ | | | |
| Check water level within the moisture separator drum. Check operation of optional transfer pump. | ✓ | | | |
| Check for loose fittings and bolts. | ✓ | | | |
| Check moisture separator for pressure drop across filter/moisture demister. | ✓ | | | |
| Take picture of all vacuum gauges. | ✓ | | | In the service fusion |
| Take picture of the CFM gauge. | ✓ | | | In the service fusion |
| Take picture of the PID Readings at all points. | ✓ | | | |
| Take picture of the cover system (concrete and asphalt sub-slab) at all areas within and outside the building footprint. | ✓ | | | |

**G. C. Environmental, Inc.**
**101 Westmoreland Ave., White Plains, New York (AAA)**
**Soil Vapor Extraction System**
**Soil Vapor Operation Log**

| Field Tecnician | Inspection Date | Vacuum Pressure Readings (Inches of water) | | | | Flow Rate Reading (cfm) | Temperat. reading | PID readings (ppm) | | | | Operator | Water level within moisture seperator drum |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Blower | Exhaust | SVE-1 | SVE-2 | | | Blower Exhaust | GAC Exhaust | SVE-1 | SVE-2 | | |
| | | | | | | | | | | | | | |
| Scott | 8.20.21 | 49 | 49 | 50 | 50 | 5 | | 0 | 0 | 0 | 0 | | no water |
| | | | | | | | | | | | | | |
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**G. C. Environmental, Inc.**
**101 Westmoreland Ave., White Plains, New York (AAA)**
**Soil Vapor Extraction System**
**SVE System & Cover System Monitoring Checklist**

| | |
|---|---|
| **Inspection Date:** | 8/30/21 |
| **Field Technician Name:** | Scott |

**SVE System & Cover System Monitoring Checklist**

| | Yes | No | N/A | Notes |
|---|---|---|---|---|
| Check vacuum gauges to ensure that max. vacuum is not exceeded. | ✓ | | | |
| Inspect air filter on optional CFM gauge for moisture. Drain high vacuum switch. | ✓ | | | |
| Check all switches for proper operation. Check all wiring for loose connections. | ✓ | | | |
| Check water level within the moisture separator drum. Check operation of optional transfer pump. | ✓ | | | |
| Check for loose fittings and bolts. | ✓ | | | |
| Check moisture separator for pressure drop across filter/moisture demister. | ✓ | | | |
| Take picture of all vacuum gauges. | ✓ | | | |
| Take picture of the CFM gauge. | ✓ | | | |
| Take picture of the PID Readings at all points. | ✓ | | | |
| Take picture of the cover system (concrete and asphalt sub-slab) at all areas within and outside the building footprint. | ✓ | | | |

**G. C. Environmental, Inc.**
**101 Westmoreland Ave., White Plains, New York (AAA)**
**Soil Vapor Extraction System**
**Soil Vapor Operation Log**

| Field Tecnician | Inspection Date | Vacuum Pressure Readings (Inches of water) | | | | Flow Rate Reading (cfm) | Temperat. reading | PID readings (ppm) | | | | Operator | Water level within moisture seperator drum |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Blower | Exhaust | SVE-1 | SVE-2 | | | Blower Exhaust | GAC Exhaust | SVE-1 | SVE-2 | | |
| Scott | 9.22.21 | – | -49 | -49 | -49 | 5 | – | 0 | 0 | 0 | 0 | | none |
| | | | | | | | | | | | | | |
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**G. C. Environmental, Inc.**
**101 Westmoreland Ave., White Plains, New York (AAA)**
**Soil Vapor Extraction System**
**SVE System & Cover System Monitoring Checklist**

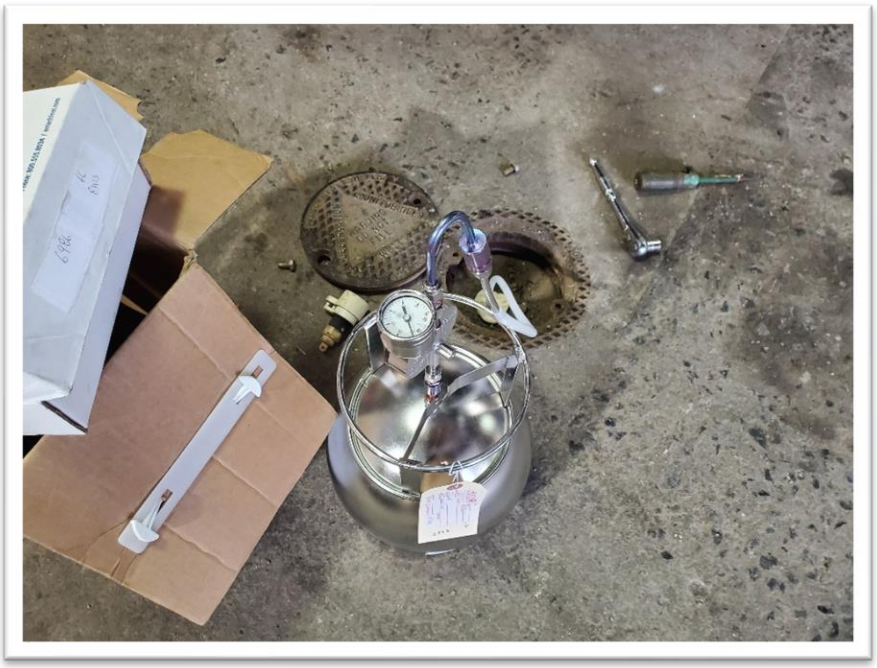
| | |
|---|---|
| **Inspection Date:** | 9/22/21 |
| **Field Technician Name:** | Scott |

**SVE System & Cover System Monitoring Checklist**

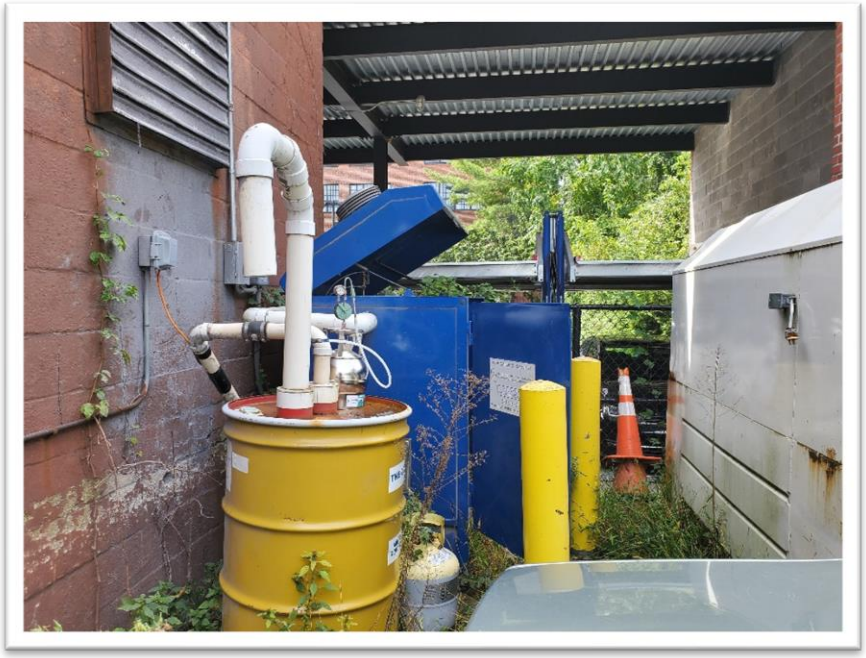
| | Yes | No | N/A | Notes |
|---|---|---|---|---|
| Check vacuum gauges to ensure that max. vacuum is not exceeded. | ✓ | | | |
| Inspect air filter on optional CFM gauge for moisture. Drain high vacuum switch. | ✓ | | | |
| Check all switches for proper operation. Check all wiring for loose connections. | ✓ | | | |
| Check water level within the moisture separator drum. Check operation of optional transfer pump. | ✓ | | | None |
| Check for loose fittings and bolts. | ✓ | | | |
| Check moisture separator for pressure drop across filter/moisture demister. | ✓ | | | |
| Take picture of all vacuum gauges. | ✓ | | | One gauge is not working |
| Take picture of the CFM gauge. | ✓ | | | 5 |
| Take picture of the PID Readings at all points. | ✓ | | | |
| Take picture of the cover system (concrete and asphalt sub-slab) at all areas within and outside the building footprint. | ✓ | | | |

# APPENDIX C
## *Photolog*

# SVE System Design Work- Photolog



**1. Air sampling at the SVE point by using suma-canister**

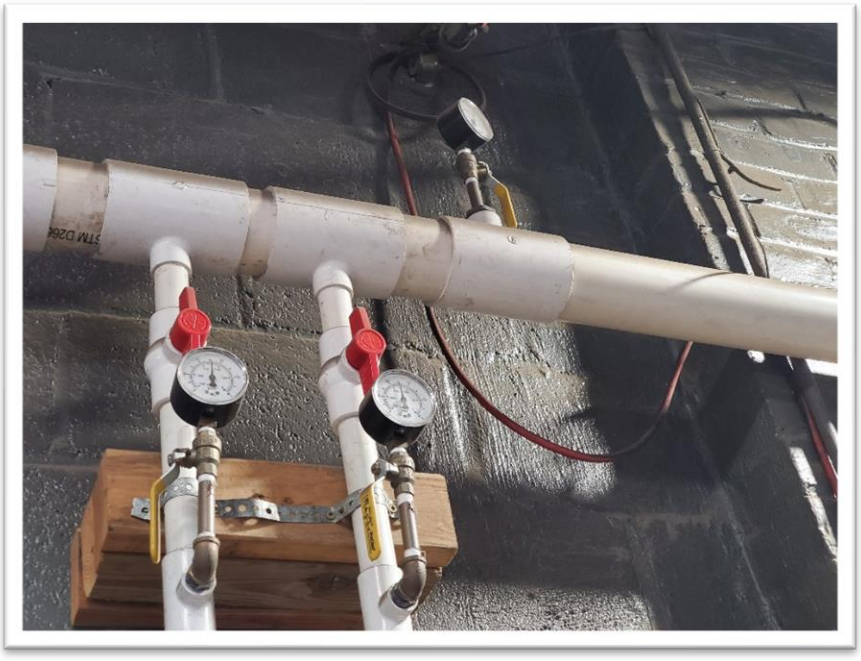


**2. Air sampling at the discharge of the carbon vessel**

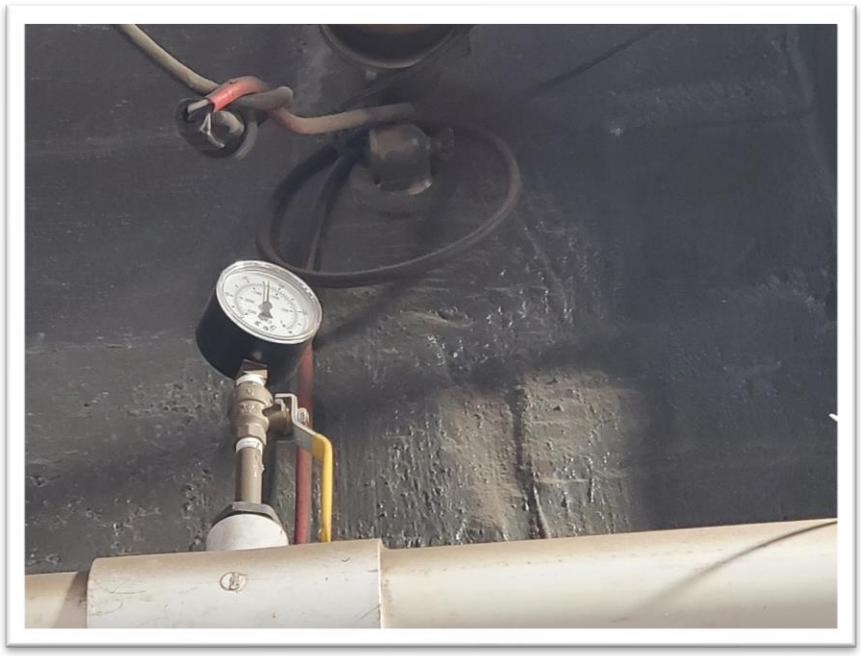
**by using suma-canister**




**5. CFM reading at the SVE system unit**



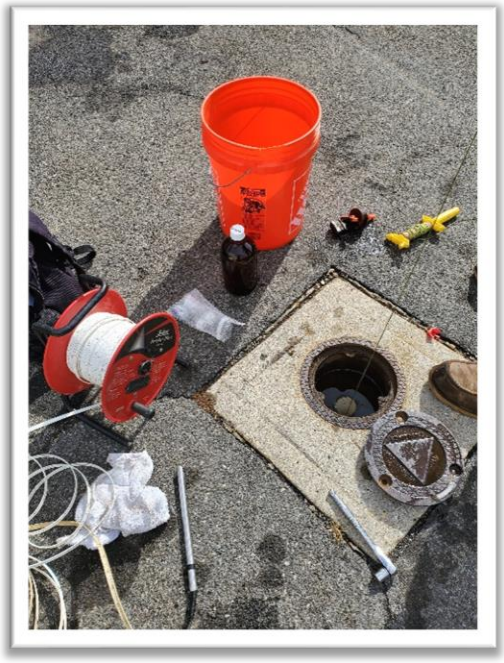
**6. Vacuum gauges of the SVE system in the repair shop area**



**7. Vacuum gauge of the SVE system in the repair shop area**



**8. Vacuum gauges of the SVE system unit**

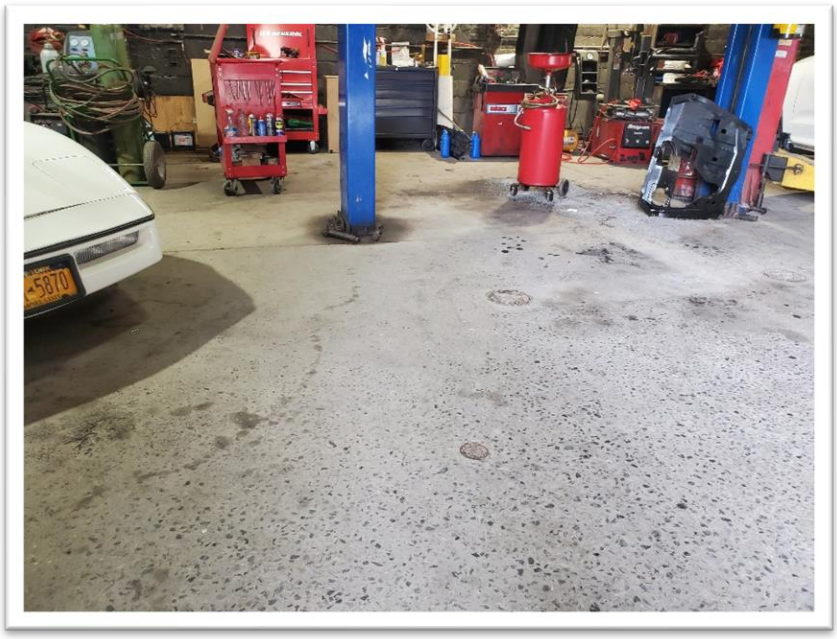


**9. Groundwater sampling**



**10. A View from the exterior portion of the site**

**(sub-slab area)**



**11. A View from the interior portion of the site**

**(SVE wells location - sub-slab)**



**12. A View from the interior portion of the site**

**(garage area -sub-slab)**

# APPENDIX D
## *SVE System Evaluation Work Plan*

G. C. Environmental, Inc.
CONSULTANTS CONTRACTORS

September 29, 2021

Mr. Justin Starr, P. G.
Engineering Geologist 1, Remedial Bureau C,
New York State Department of Environmental Conservation
Division of Environmental Remediation
625 Broadway
Albany, NY 12233-7014

Subject: SVE System Evaluation Work Report – 1st Amended
101 Westmoreland Avenue
White Plains, New York 10606
Automobile Club of New York (Now Known as AAA Northeast)
GCE Project No. 05-003-00

Dear Mr. Starr:

Enclosed please find the amended of July 2021 SVE System Evaluation Work Report. The amended sections are remained italic.

If you have any questions concerning this project, please feel free to call me at (631) 206-3700.

Very truly yours,

Fulya Toylular,
Project Manager

G. C. Environmental, Inc.
CONSULTANTS CONTRACTORS

# SVE SYSTEM EVALUATION WORK REPORT

**1st Amended July 2021 Report**

**OF**

**101 WESTMORELAND AVENUE**
**WHITE PLAINS, NEW YORK 10606**
**ORDER ON CONSENT NO. D3-0504-06-09**
**SITE CODE NO. 360095**

PREPARED FOR:
**NEW YORK STATE**
**DEPARTMENT OF ENVIRONMENTAL CONSERVATION**
**DIVISION OF ENVIRONMENTAL REMEDIATION, REGION 3**
**21 SOUTH PUTT CORNERS ROAD**
**NEW PALTZ, NEW YORK 12561**

ON BEHALF OF:
**AUTOMOBILE CLUB OF NEW YORK, INC.**
**1415 KELLUM PLACE**
**GARDEN CITY, NY 11530**

**DATE ISSUED: SEPTEMBER 29, 2021**

**GCE PROJECT NUMBER: 05-003-00**

22 Oak Street • Bay Shore, NY 11706 • TEL: (31) 206-3700 • FAX: (631) 206-3729
www.gcenvironmental.com

Purpose

G. C. Environmental, Inc. (GCE) prepared this Soil Vapor Extraction (SVE) System Evaluation Work Report to optimize or evaluate alternatives to the current remedial system at 101 Westmoreland Avenue, White Plains, New York (the Site) in accordance with NYSDEC's DER-10 3.6 Technical Guidance for Site Investigation and Remediation dated May 2010 (DER-10) and NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York.

Soil Vapor Extraction (SVE) System Description

The SVE system was installed in 2016 and has been operating continuously since 2016. Following the system installation, air sampling was performed on a quarterly basis. Air samples were collected from the SVE system at: the discharge of carbon vessel, between carbon vessel and blower motor, and from each SVE well (SVE-1 & SVE-2) to assess vapor phase hydrocarbon, tetrachloroethene and its degradation by-products removal rates. The air samples were collected using summa canisters at an elapsed time of 1 hour.

To assist to determine the current site condition and move forward with a new strategy, a new work plan was prepared and submitted to the NYSDEC. The approval work plan is as follows:

1. Mobilize to site with necessary manpower and equipment.
2. Five (5) sub-slab monitoring points will be installed to measure negative pressure differential between atmosphere and sub-slab to delineate the radius of influence of the existing vapor extraction points during system operations. The sub-slab monitoring points will consist of vapor pins. Two (2) additional interior sub-slab monitoring and sampling points will be installed. One point will be in the northern section of the building, north of the former excavation area, and the other point will be set within the on-site office. One (1) additional exterior soil gas sampling point will be installed in the eastern portion of the site, away from the building.
3. Collect two (2) QA/QC samples; one an as outdoor air sample and as a sub-slab duplicate samples.
4. Collect in total fourteen (14) air samples; thirteen (13) sub-slab and one (1) indoor air after system shut down for a period of two weeks and prior heating season ends.
5. Review datas, undergo validation to confirm data usability and make recommendations.
6. Engineer review of alternate remedial/mitigation/termination strategies in concurrence with NYSDEC and section 4.5 of the NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York October 2006.

Public Utility Mark-out

Prior to commencement of the work, GCE arranged for a public underground utilities mark-out to be performed at the Site.

Soil Vapor Intrusion Investigation

On March 30$^{th}$ and April 2$^{nd}$, 2021, field investigation was performed as follows:

In total fourteen (14) air samples were collected after SVE is off-line for a period of two weeks prior to sampling to ensure the subsurface has returned to equilibrium. The objective of these sampling points was to ensure full coverage across the entirety of the building slab and to provide a definitive background vapor concentration level unaffected by the on-site building or on-site sources, respectively.

Vapor Monitoring Points

Five (5) interior sub-slab monitoring points were installed nearby the SVE wells and two (2) additional interior sub-slab monitoring points were installed in the northern section of the building, north of the former excavation area, and within the on-site office to measure negative pressure differential between atmosphere and sub-slab to delineate the radius of influence of the existing vapor extraction points. The sub-slab monitoring points consisted of vapor pins and were used to monitor sub-slab differential pressure. The vapor pins were installed using a 5/8-inch diameter HiltiTM hammer drill bit to approximately 1 inch below the base of the concrete slab. A 1 ½-inch diameter HiltiTM hammer drill bit was then be used to set a flush mount cover in the concrete slab. A vapor pin was inserted into each hole and completed with a flush mount surface protector to secure the pin in the concrete. Installed vapor pin cuts sheets are provided in Appendix F. All the sub-slab and soil vapor probes were installed as permanent.

*Negative pressure differential pressure between sub-slab and indoor air was measured with a hand-held manometer throughout the Site. The hand-held manometer was connected to permanent sub -slab monitoring points - vapor pins to collect and transmit differential pressure readings at preset intervals. The differential readings were listed below. Based on these readings the system is working.*

| ***Monitoring Point Location*** | ***Negative pressure differential (in. H2O) When system is off*** | ***Negative pressure differential (in. H2O When system is on*** |
|---|---|---|
| *SS-1* | *-0.13* | *0.04* |
| *SS-2* | *-0.00* | *0.11* |
| *SS-3* | *-0.01* | *0.03* |
| *SS-4/SS-7* | *-0.01* | *0.11* |
| *SS-5* | *-0.00* | *0.12* |
| *SS-6* | *-0.13* | *0.17* |
| *SS-8* | *-0.01* | *0.05* |

Soil Vapor Probe Installation

An implant at SS-9 thru SS-12 were installed at a depth of approximately five (5) feet below grade using the Geoprobe drilling system. The implants, consisting of 1-foot-long stainless-steel screens, were fitted with laboratory quality inert polyethylene tubing (¼ inch diameter) to the surface and were plugged. A mixture of bentonite was placed from the top of the bentonite seal to approximately one (1) foot below ground surface. All soil vapor probes were installed as temporary probes. The locations of the soil vapor probes are presented in Figure 2 - Site Sampling Map.

The following is a written delineation of the locations in which the air samplings were performed:

Seven (7) sub-slab samples (SS-1 thru SS-8) were collected at the monitoring pin locations inside the garage area and office area. During the site investigation, it was identified one formerly installed vapor pin in the office area. SS-1 thru SS-7 were installed within the vapor pins and SS-8 within the office area was installed to a depth of four (4) ft bgs. The SS-7 was collected at the SS-4 location as a duplicate sample.

Four (4) sub-slab air samples (SS-9 thru SS-12) were collected at the exterior portion of the on-site building; SS-12 in the southwestern portion of the site, SS-10 in the eastern portion of the site, near the building, SS-9 in the eastern portion of the site, away from the building, and SS-11 on the southerly sidewalk.

It should be noted that during the installation of the sub-slab vapor probes in the office area, GCE revealed that the office area has no concrete floor slab, but an approximately 1-foot-thick floor made of wood, below which is an approximately 1-foot free space. It is possible that the sub-slab vapor probe in the office area was installed within floor beams. However, the makeup of the floor is unknown.

Soil Vapor Sampling

In total fourteen (14) air samples were collected after SVE is off-line for a period of two weeks prior to sampling to ensure the subsurface has returned to equilibrium. The objective of these sampling points was to ensure full coverage across the entirety of the building slab and to provide a definitive background vapor concentration level unaffected by the on-site building or on-site sources, respectively. As a part of soil vapor investigation, a building questionnaire was conducted prior to sampling, which included a product inventory to determine whether there were products in the sampling area that contained VOCs. Please refer to Appendix E for NYS DOH Indoor Air Quality Questionnaire.

On March 30$^{th}$ and April 2$^{nd}$, 2021, GCE collected soil vapor samples from all eight (8) sub-slab and four (4) soil vapor probes. The soil vapor samples were collected in the same manner at all locations to minimize possible discrepancies. To ensure stagnant or ambient air was removed from the sampling system and to assure that the samples collected were representative of subsurface conditions, one (1) to three (3) implant volumes (the volume of the soil vapor probe and tube) were purged prior to collecting the samples. Flow rates for both purging and collecting did not exceed 0.2 liters per minute to minimize outdoor air infiltration during sampling.

A real time tracer gas (helium) was used prior to collecting soil vapor samples to verify that an adequate seal had been created around the soil vapor probes. No leaks (>10%) were detected prior to soil vapor sampling.

One (1) soil vapor sample was collected from each newly installed soil vapor probe. In addition, one (1) duplicate, one (1) indoor and one (1) outdoor air samples were collected. The one (1) indoor air sample (IA-1) was collected in the office area. The outdoor air sample (OA-1) was

collected at the exterior portion of the on-site building. Laboratory obtained samplers were used for the soil vapor, indoor and outdoor air samples and consisted of the following:

- Volatile Organic Compounds (VOCs) – one (1) 6-liter SUMMA canister with settable flow controller.

All soil vapor samples were logged and transferred under a chain-of-custody protocol to Phoenex for analysis of VOCs using EPA Method TO-15. The soil vapor samples were collected with Summa canisters with present 2-hour collection periods with flow rates of approximately 0.04 liters per minute. The indoor and outdoor air samples were collected with Summa canisters with present 2-hour collection periods with flow rates of approximately 0.04 liters per minute.

All samples were collected in Summa canisters, certified clean (batch certification) by the laboratory. Flow rate of both purging and sampling did not exceed 0.2 liters per minute (L/min). Sampling duration was for two (2) hours. A sample log sheet was maintained summarizing sample identification, date and time of sample collection, sampling depth, identity of samplers, sampling methods and devices, approximate soil vapor purge volumes, approximate volume of the soil vapor extracted, vacuum of canisters before and after the samples were collected, apparent moisture content of the sampling zone, and chain of custody protocols. Following of sample collection, the in-hole sampling materials were removed. The core hole was restored to original grade with surface material compatible with the existing surface. The following table shows the soil vapor samples submitted for lab analysis, sample IDs, sample collected depth and visual/olfactory contamination.

Location Code: GC-ENV SDG I.D.: GCH92051

Project ID: 05-003-00 (101 WESTMORELAND AVE)

| | | | | | | Laboratory | | | | | Field | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Canister | | Reg. | Chk Out | Out | In | Out | In | Flow | Start | End | Sampling | Sampling |
| Client Id | Lab Id | Id | Type | Id | Date | Hg | Hg | Flow | Flow | RPD | Hg | Hg | Start Date | End Date |
| SS-7 | CH92052 | 28567 | 6.0L | 4481 | 03/29/21 | -30 | -3 | 43 | 43 | 0.0 | -30 | -5 | 03/30/21 13:20 | 03/30/21 15:20 |
| SS-5 | CH92053 | 13651 | 6.0L | 4980 | 03/29/21 | -30 | -1 | 43 | 44 | 2.3 | -29 | -4 | 03/30/21 11:36 | 03/30/21 13:36 |
| SS-10 (5') | CH92054 | 12864 | 6.0L | 6988 | 03/29/21 | -30 | -8 | 43 | 51 | 17.0 | -29 | | 04/02/21 10:45 | 04/02/21 12:45 |
| OA-1 | CH92055 | 28603 | 6.0L | 3248 | 03/29/21 | -30 | 0 | 43 | 48 | 11.0 | -29 | -4 | 04/02/21 11:06 | 04/02/21 13:06 |
| SS-6 | CH92056 | 28582 | 6.0L | 7034 | 03/29/21 | -30 | -1 | 43 | 44 | 2.3 | -29 | -5 | 03/30/21 11:42 | 03/30/21 13:42 |
| SS-4 | CH92057 | 479 | 6.0L | 5619 | 03/29/21 | -30 | 0 | 43 | 43 | 0.0 | -28 | -4 | 03/30/21 11:15 | 03/30/21 13:15 |
| SS-11 (5') | CH92058 | 484 | 6.0L | 5596 | 03/29/21 | -30 | -1 | 43 | 43 | 0.0 | -29 | | 04/02/21 11:40 | 04/02/21 13:40 |
| SS-9 (5') | CH92059 | 470 | 6.0L | 2887 | 03/29/21 | -30 | -2 | 43 | 43 | 0.0 | -29 | -8 | 04/02/21 10:15 | 04/02/21 12:15 |
| SS-1 | CH92060 | 18111 | 6.0L | 3500 | 03/29/21 | -30 | -2 | 43 | 44 | 2.3 | -29 | -4 | 03/30/21 10:36 | 03/30/21 12:35 |
| SS-8 (4') | CH92061 | 19732 | 6.0L | 7025 | 03/29/21 | -30 | -3 | 43 | 45 | 4.5 | -30 | -4 | 03/30/21 13:50 | 03/30/21 15:50 |
| IA-1 | CH92062 | 23345 | 6.0L | 7036 | 03/29/21 | -30 | -4 | 43 | 44 | 2.3 | -29 | -5 | 03/30/21 13:50 | 03/30/21 15:50 |
| SS-2 | CH92063 | 13633 | 6.0L | 5000 | 03/29/21 | -30 | -2 | 43 | 46 | 6.7 | -29 | -5 | 03/30/21 10:45 | 03/30/21 12:45 |
| SS-3 | CH92064 | 367 | 6.0L | 3250 | 03/29/21 | -30 | -1 | 43 | 42 | 2.4 | -28 | -4 | 03/30/21 11:00 | 03/30/21 13:00 |

Field QA/QC Samples

Field QA/QC samples were collected, stored, transported and analyzed in a manner consistent with the Site samples. The following QC sample was collected to support the sampling activity:

Duplicate Sample

A duplicate sample was collected in a separate sample container, concurrently with a soil vapor sample using Summa canister. A duplicate sample was analyzed for VOCs using EPA Method TO-15, the same analysis that was performed on the original sample.

Background Air Samples

Background air samples were collected to characterize site-specific background outdoor and indoor air conditions. These samples were collected concurrently with and in the same manner as sub-slab and soil vapor samples. They were used in the evaluation of soil vapor results (i.e., to identify potential outdoor and indoor air interferences associated with the infiltration of outdoor and indoor air into the sampling apparatus while the soil vapor sample was collected). One (1) outdoor and one (1) indoor air samples were collected from representative locations at the Site. The outdoor and indoor air samples were analyzed for VOCs using EPA Method TO-15.

Sample Handling and Documentation

The samples were transferred into sample containers which were packed and shipped back to the laboratory in a laboratory-supplied cooler with sufficient ice packs to maintain the sample temperature at 4°C at all times during shipping to the laboratory. Chain-of-custody protocols were maintained from sample collection to delivery to the laboratory. Field information was recorded in field report and sampling log sheets. Full documentation was made as to the location and depth of all samples collected. Each sample was labeled with GCE's project number, the sample location and depth interval, the date and time, the initials of the sampler and the requested analysis. Samples were delivered to the analytical laboratory as soon as possible after collection.

Data Validator Qualifications

In accordance with the DEC-approved SVE System Evaluation Work Plan Work dated March 19th, 2021, GCE proposed to utilize the services of Ms. Nancy C. Rothman of New Environmental Horizons, Inc., Skillman NJ, as a third-party data validation expert.

Dr. Rothman is CEO and a Principal Scientist of NEH (New Environmental Horizons, Inc.) and a recognized expert in organic environmental chemistry. Dr. Rothman has over 25 years of experience in the development of methods, analysis, and data evaluation for semivolatile organic compounds (SVOC), including dioxins/furans and polychlorinated biphenyls (PCBs), and volatile organic compounds (VOC). Please refer to Appendix D for Ms. Rothman Statement of Qualification and Resume.

NYSDOH Standards/Guidance

Sub-slab and indoor analytical results for applicable chlorinated VOCs were compared to monitoring and mitigation ranges established by NYSDOH Final Guidance on Soil Vapor Intrusion (May 2017) Matrices A, B and C, which are established for Trichloroethene (TCE), Cis-1,2-Dichloroethene ( c12-DCE), 1,1-Dichloroethene (11-DCE), and Carbon Tetrachloride (TCE)(Matrix-A), tetrachloroethene (PCE), 1,1,1-trichloroethane (1,1,1-TCA), and Methylene Chloride (Matrix-B) and Vinyl Chloride (Matrix-C) only.

Matrices A, B, and C of the NYSDOH guidance are used to evaluate vapor mitigation options and to make decisions on appropriate actions to address exposures. The matrix evaluation requires sub-slab and indoor air data. The matrices provide a sub-slab vapor and an indoor air above which monitoring and/or mitigation is required.

Laboratory Analytical Results

The Sub-Slab Soil Vapor/Air results were compared to *New York State Department of Health (NYSDOH) Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York,* October 2006 (NYSDOH Guidance) as applicable.

Air samples collected during this investigation identified chlorinated and petroleum-related VOCs at generally low-to-moderate concentrations. Petroleum-related VOCs in all samples were detected at generally low concentrations and included benzene (ranging between <1.00 to 5.36 $\mu g/m^3$), toluene (ranging between 5.05 to 42.2 $\mu g/m^3$), ethylbenzene (ranging between <1.00 to 8.9 $\mu g/m^3$), and xylenes (ranging between <1.00 to 10.7 $\mu g/m^3$). The State of New York does not have any standards, criteria or guidance values for concentrations of chlorinated and petroleum-related VOCs except as listed in the described below summary of the eight volatile chemicals referenced in Table 3.3 of the Volatile chemicals and their decision matrices in NYSDOH Final Guidance on Soil Vapor Intrusion (October 2006) Guideline.

Target Volatile Chemicals and Their Decision Matrices

Based on a conservative comparison of the indoor air (as representative) and sub-slab vapor sample results, as outlined in NYSDOH Decision Matrix A for 1,1-Dichloroethene (11-DCE) (ranging between <0.20 to 1.79 $\mu g/m^3$), Carbon Tetrachloride (TCE) (ranging between <0.20 to 0.59 $\mu g/m^3$), Cis-1,2-Dichloroethene(c12-DCE) (ranging between <0.20 to 0.22 $\mu g/m^3$), and Trichloroethene (TCE) (ranging between <0.20 to 0.97 $\mu g/m^3$); Matrix B for 1,1,1-trichloroethane (1,1,1-TCA) (ranging between <1.00 to 605 $\mu g/m^3$), Methylene Chloride (<3.00 $\mu g/m^3$), Tetrachloroethene (PCE) (ranging between <0.25 to 415 $\mu g/m^3$); Matrix C for Vinyl Chloride (<0.20 $\mu g/m^3$), no further action, or monitoring or mitigation is recommended to minimize current or potential exposures associated with soil vapor intrusions in accordance with the NYSDOH Guidance.

The target compounds – besides listed above - of 1,1,1-Trichloroethane (ranging between <1.00 to 605 $\mu g/m^3$) was detected in all samples, Trans-1,2-Dichloroethene (<1.00 $\mu g/m^3$) was not detected in any samples.

(Please refer to Table 1 for Summary of Detected Compounds–Air Samples, Table 2 for Summary of Detected Compounds–Air Samples/Target Compounds, Table 3 for Table 3.1 Air guideline values derived by the NYSDOH, Table 4 for Table 3.3 Volatile chemicals and Appendix B for Laboratory Analytical Report).

Summary of Findings and Recommendations

*Summary of Findings*:

Low BTEX concentrations were detected in all the soil vapor samples and in the indoor and outdoor ambient air samples

Based on a conservative comparison of the indoor air and sub-slab vapor sample results, as outlined in NYSDOH Decision Matrix A for 1,1-Dichloroethene (11-DCE), Carbon Tetrachloride (TCE), Cis-1,2-Dichloroethene(c12-DCE), and Trichloroethene (TCE); Matrix B for 1,1,1-trichloroethane (1,1,1-TCA), Methylene Chloride, Tetrachloroethene (PCE); Matrix C for Vinyl Chloride no further action, or monitoring or mitigation is recommended to minimize current or potential exposures associated with soil vapor intrusions in accordance with the NYSDOH Guidance.

*Recommendations**:***

*Based on the findings and the single air sampling results provides limited understanding of potential exposure, GCE will perform additional air sampling events – indoor air (IA) and sub-slab vapor (SS) to determine potential changes of seasonal and/or potential site usage variations at the site at defined intervals over the course of one year. The proposed work will be performed in conjunction NYSDEC comments/recommendations listed in September 2021 letter as follows;*

- *During the beginning of the 2021-2022 heating season, the SVE system will be off-line for a period of two weeks and subsequent IA and SS samples will be collected. One IA sample and one SS sample will be collected in the office area – previous IA-1/SS-8 locations, one SS sample will be collected at the previous SS-4/SS-7 location. If the indoor air sample results remain non-detected (ND) for contaminants of concern (COC), then the system will be shut off for a period of 3 months. All samples will be collected by using suma canisters at an elapsed time of 2 hour and send to the lab for analyzing TO-15.*

- *After 3-months, another IA and SS samples will be collected at the same locations. If the IA remains ND for contaminants of concern, the system will be continued to remain off-line for another 3 months.*

- *After 6-months, another IA and SS samples will be collected at the same locations. If the IA remains ND for contaminants of concern, the system will be continued to remain off-line for another 6 months.*

- *After 1-year, another IA and SS samples will be collected at the same locations.*

*After the 1-year evaluation period is completed:*

- *The IA and SS samples will be compared to monitoring and mitigation ranges established by NYSDOH Final Guidance on Soil Vapor Intrusion (May 2017) Matrices A, B, and C. Based on comparison, either it will be requested "no further action" for the Site and the SVE system will be shut off permanently and decommissioned or if it is recommended "monitoring" or "mitigation" a new work plan will be prepared and summited to the NYSDEC for review and approval prior to start of any construction activities. Based on results and air pressure readings` results, GCE will have three options for the proposed new work plan:*
  *Option 1: Monitoring Plan.*
  *Option 2: Upgrade the existing SVE system.*
  *Option 3: Install a sub-slab depressurization system (SSDS) at the contaminants of concern.*

*At any point during above listed process in 1 year:*

- *If contaminants are observed in the indoor air that suggest vapor intrusion (VI) is occurring or if sub-slab concentrations increase significantly, the SVE system will be re-activated for 3-months, and IA/SS samples will be collected monthly basis. If no changes will appear, a new work plan will be prepared and summited to the NYSDEC for review and approval prior to start of any construction activities. Based on results, and air pressure readings` results, GCE will have two options for the proposed new work plan:*
  *Option 1: Upgrade the existing SVE system.*
  *Option 2: Install a sub-slab depressurization system (SSDS) at the contaminants of concern.*

Please review this amended report and provide GCE with DEC's comments and/or acceptance.

Enclosures:

**LIST OF FIGURES**
Figure 1: SVE System Diagram
Figure 2: Site Map
Figure 3: Sampling Map

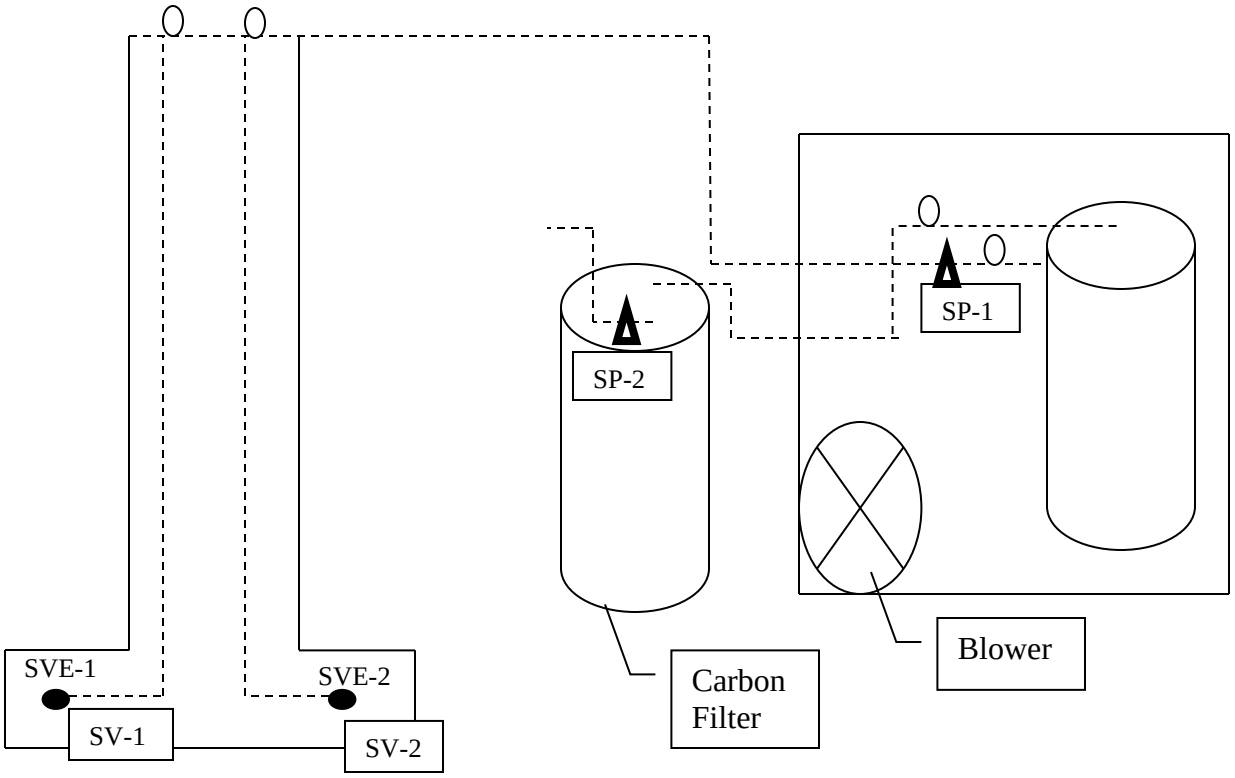
**LIST OF TABLES**
Table 1: Summary of Detected Compounds / Air Samples
Table 2: Summary of Detected Compounds / Air Samples / Target Compounds
Table 3: Air Guideline Values
Table 4: Volatile Chemicals and Their Decision Matrices

**APPENDIXES:**
Appendix A: Photolog
Appendix B: Laboratory Analytical Results
Appendix C: NY Analytical Services Protocol Data Package

Appendix D: Data Usability Summary Report / Resume
Appendix E: NYSDOH IAQ Questionnaire
Appendix F: Vapor Pin Cut Sheets & Geoprobe Probe

cc: Stephen Lawrence, NYSDOH

# LIST OF FIGURES




**LEGEND:**

- Soil Vapor Extraction Wells
- Manifold Vacuum Gauges
- System Piping
- Air Sampling Locations

Note: Drawings is not scaled. All locations are approximate.

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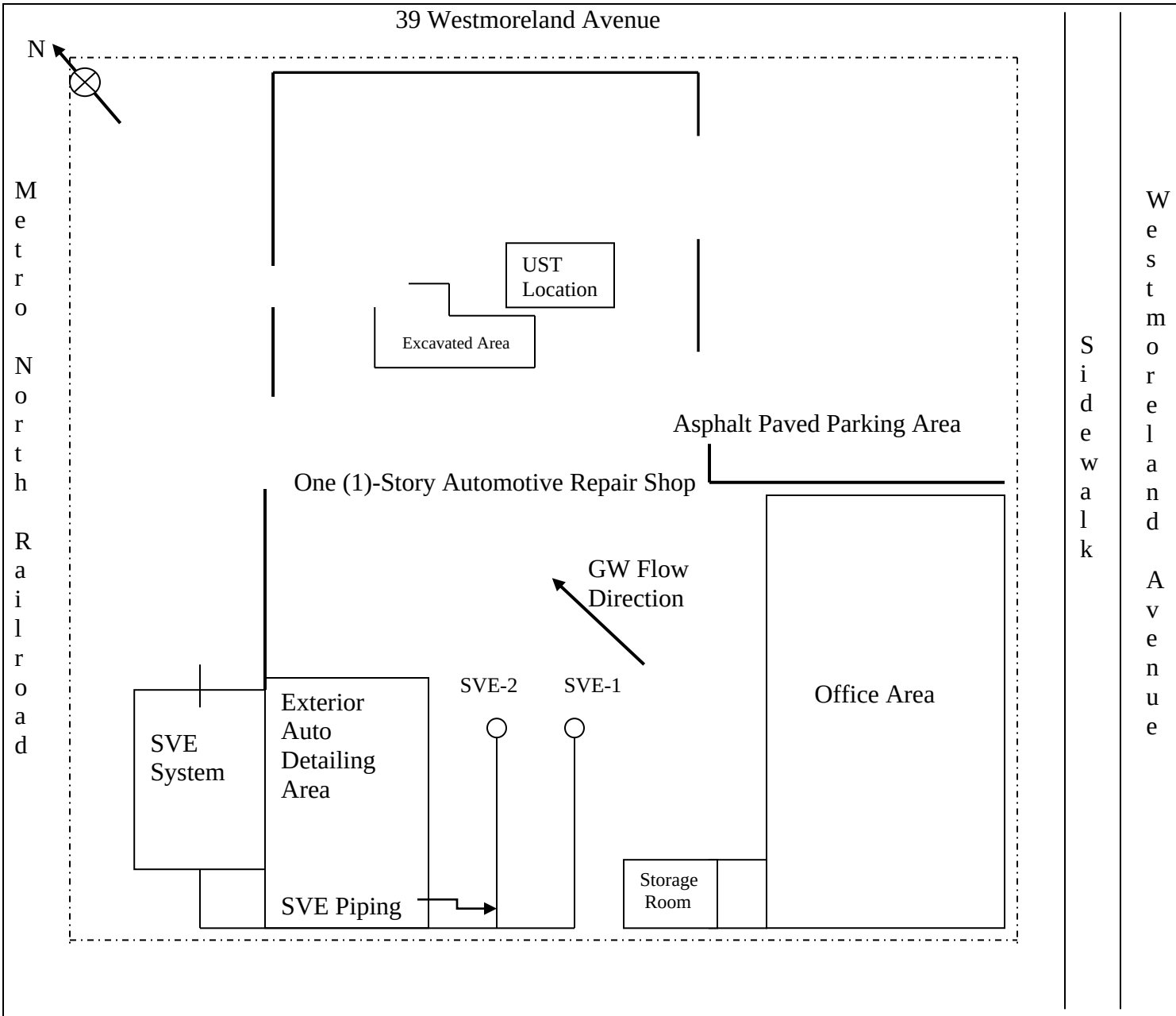
SVE SYSTEM DIAGRAM

101 WESTMORELAND AVENUE
WHITE PLAINS, NY 10606

GCE PROJECT NO.: 05-003-00

FIGURE 1

SVE SYSTEM DIAGRAM




**LEGEND**

_____ Property Line

Note: Drawings is not scaled. All locations are approximate.

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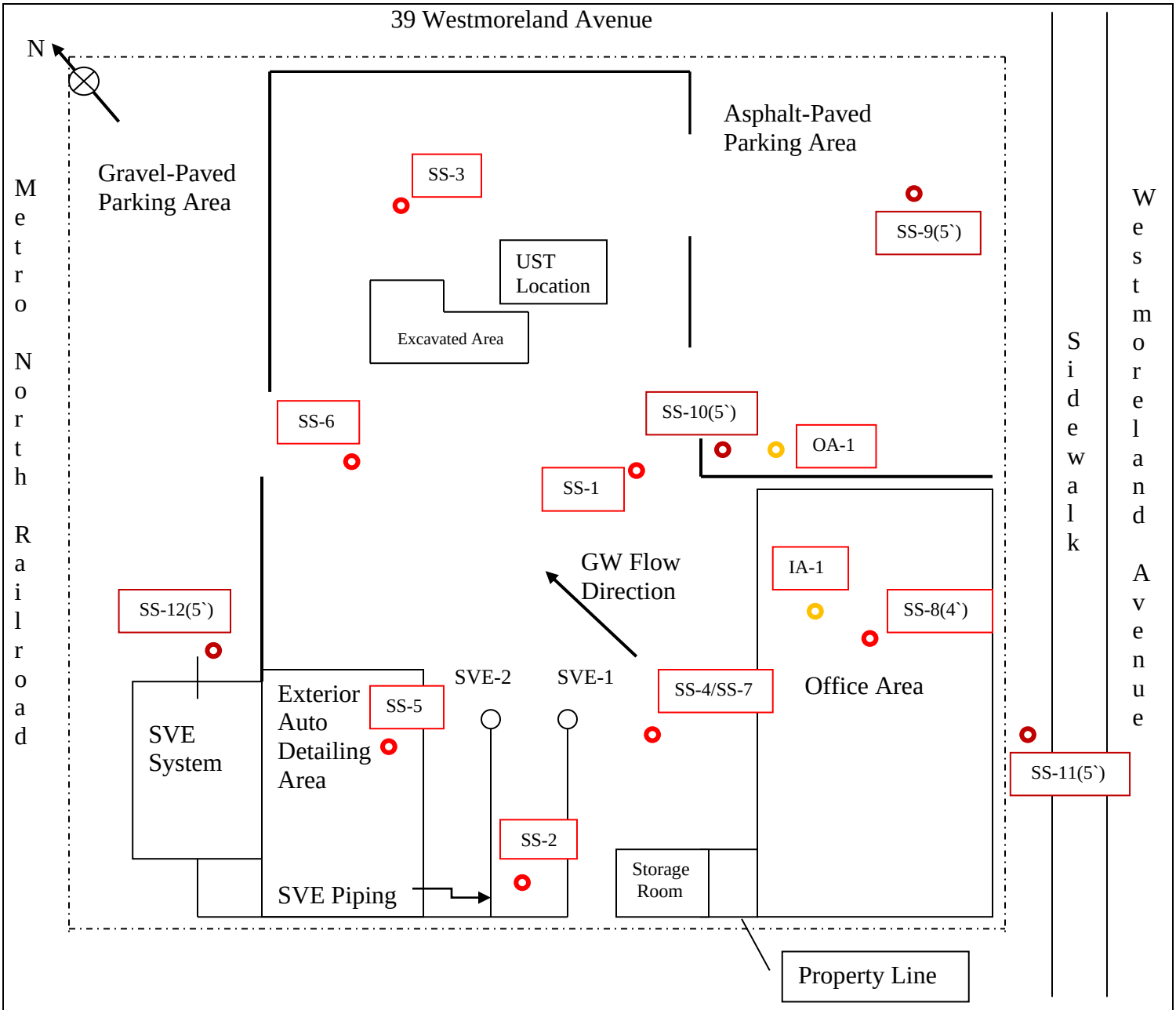
SITE MAP

101 WESTMORELAND AVENUE
WHITE PLAINS, NY 10606

GCE PROJECT NO.: 05-003-00

FIGURE 2

SITE MAP




**LEGEND**

- Vapor Pin & TO-15 – Sub-slab Air Sample /Shallow with exception SS-8
- TO-15 – Sub-slab Air Sample /Deep
- TO-15 – Indoor/Outdoor Air Sample

SS: Sub-slab – IA: Indoor Air OA – Outdoor Air

Note: Drawings is not scaled. All locations are approximate.

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SAMPLING MAP

101 WESTMORELAND AVENUE
WHITE PLAINS, NY 10606

GCE PROJECT NO.: 05-003-00

FIGURE 3

SAMPLING MAP

# LIST OF TABLES

**G. C. Environmental, Inc.**
**Job Adress:**
**101 Westmoreland Avenue**
**White Plains, NY 10606**

**GCE Project No:05-003-00**

Table 1: Summary of Detected Compounds / Air Samples

| | Lab Sample Id | | NYSDOH | NYSDOH | NYSDOH | NYSDOH | CH92051 | | | | CH92052 | | | | CH92053 | | | | CH92054 | | | | CH92055 | | | | CH92056 | | | | CH92057 | | | | CH92058 | | | | CH92059 | | | | CH92060 | | | | CH92061 | | | | CH92062 | | | | CH92063 | | | | CH92064 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Collection Date | | | | | | 4/1/2021 | | | | 3/30/2021 | | | | 3/30/2021 | | | | 4/2/2021 | | | | 3/30/2021 | | | | 3/30/2021 | | | | 3/30/2021 | | | | 4/2/2021 | | | | 4/2/2021 | | | | 3/30/2021 | | | | 3/30/2021 | | | | 3/30/2021 | | | | 3/30/2021 | | | | 3/30/2021 | | | |
| | Client Id | | AGV | Matrix A | Matrix B | Matrix C | SS-12 (5') | | | | SS-7 | | | | SS-5 | | | | SS-10 (5') | | | | OA-1 | | | | SS-6 | | | | SS-4 | | | | SS-11 (5') | | | | SS-9 (5') | | | | SS-1 | | | | SS-8 (4') | | | | IA-1 | | | | SS-2 | | | | SS-3 | | | |
| | Matrix | | | | | | Air | | | | Air | | | | Air | | | | Air | | | | Air | | | | Air | | | | Air | | | | Air | | | | Air | | | | Air | | | | Air | | | | Air | | | | Air | | | | Air | | | |
| | CAS | Units | | | | | Result | RL | Qual | MDL | Result | RL | Qual | MDL | Result | RL | Qual | MDL | Result | RL | Qual | MDL | Result | RL | Qual | MDL | Result | RL | Qual | MDL | Result | RL | Qual | MDL | Result | RL | Qual | MDL | Result | RL | Qual | MDL | Result | RL | Qual | MDL | Result | RL | Qual | MDL | Result | RL | Qual | MDL | Result | RL | Qual | MDL | Result | RL | Qual | MDL |
| **Volatiles (TO15) By TO15** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | 630-20-6 | ug/m3 | NS | NS | NS | NS | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 |
| 1,1,1-Trichloroethane | 71-55-6 | ug/m3 | NS | NS | 100 | NS | < 1.00 | 1.00 | U | 1.00 | 137 | 1.00 | | 1.00 | 76.9 | 1.00 | | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | 59.4 | 1.00 | | 1.00 | < 1.00 | 1.00 | U | 1.00 | 145 | 1.00 | | 1.00 | 161 | 1.00 | | 1.00 | < 1.00 | 1.00 | U | 1.00 | 17.2 | 1.00 | | 1.00 | 54.5 | 1.00 | | 1.00 | 605 | 5.00 | | 5.00 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | ug/m3 | NS | NS | NS | NS | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 |
| 1,1,2-Trichloroethane | 79-00-5 | ug/m3 | NS | NS | NS | NS | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 |
| 1,1-Dichloroethane | 75-34-3 | ug/m3 | NS | NS | NS | NS | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 |
| 1,1-Dichloroethene | 75-35-4 | ug/m3 | NS | 6 | NS | NS | < 0.20 | 0.20 | U | 0.20 | < 0.20 | 0.20 | U | 0.20 | < 0.20 | 0.20 | U | 0.20 | < 0.20 | 0.20 | U | 0.20 | < 0.20 | 0.20 | U | 0.20 | < 0.20 | 0.20 | U | 0.20 | < 0.20 | 0.20 | U | 0.20 | < 0.20 | 0.20 | U | 0.20 | 1.79 | 0.20 | | 0.20 | < 0.20 | 0.20 | U | 0.20 | < 0.20 | 0.20 | U | 0.20 | < 0.20 | 0.20 | U | 0.20 | < 0.20 | 0.20 | U | 0.20 | < 0.20 | 0.20 | U | 0.20 |
| 1,2,4-Trichlorobenzene | 120-82-1 | ug/m3 | NS | NS | NS | NS | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 |
| 1,2,4-Trimethylbenzene | 95-63-6 | ug/m3 | NS | NS | NS | NS | < 1.00 | 1.00 | U | 1.00 | 1.11 | 1.00 | | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | 1.13 | 1.00 | | 1.00 | 1.14 | 1.00 | | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | 3.76 | 1.00 | | 1.00 | 5.94 | 1.00 | | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 |
| 1,2-Dibromoethane(EDB) | 106-93-4 | ug/m3 | NS | NS | NS | NS | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 |
| 1,2-Dichlorobenzene | 95-50-1 | ug/m3 | NS | NS | NS | NS | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 |
| 1,2-Dichloroethane | 107-06-2 | ug/m3 | NS | NS | NS | NS | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | 2.01 | 1.00 | | 1.00 | < 1.00 | 1.00 | U | 1.00 |
| 1,2-dichloropropane | 78-87-5 | ug/m3 | NS | NS | NS | NS | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 |
| 1,2-Dichlorotetrafluoroethane | 76-14-2 | ug/m3 | NS | NS | NS | NS | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 |
| 1,3,5-Trimethylbenzene | 108-67-8 | ug/m3 | NS | NS | NS | NS | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | 1.32 | 1.00 | | 1.00 | 1.65 | 1.00 | | 1.00 | < 1.00 | 1.00 | U | 1.00 |
| 1,3-Butadiene | 106-99-0 | ug/m3 | NS | NS | NS | NS | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | 10.2 | 1.00 | | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 |
| 1,3-Dichlorobenzene | 541-73-1 | ug/m3 | NS | NS | NS | NS | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 |
| 1,4-Dichlorobenzene | 106-46-7 | ug/m3 | NS | NS | NS | NS | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 |
| 1,4-Dioxane | 123-91-1 | ug/m3 | NS | NS | NS | NS | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | 22.5 | 1.00 | | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | 5.26 | 1.00 | | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | 5.4 | 1.00 | | 1.00 | 7.28 | 1.00 | | 1.00 |
| 2-Hexanone(MBK) | 591-78-6 | ug/m3 | NS | NS | NS | NS | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 |
| 4-Ethyltoluene | 622-96-8 | ug/m3 | NS | NS | NS | NS | < 1.00 | 1.00 | U | 1.00 | 1.33 | 1.00 | | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | 1.03 | 1.00 | | 1.00 | < 1.00 | 1.00 | U | 1.00 | 1.3 | 1.00 | | 1.00 | 1.04 | 1.00 | | 1.00 | < 1.00 | 1.00 | U | 1.00 | 4.36 | 1.00 | | 1.00 | 4.8 | 1.00 | | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 |
| 4-Isopropyltoluene | 99-87-6 | ug/m3 | NS | NS | NS | NS | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 |
| 4-Methyl-2-pentanone(MIBK) | 108-10-1 | ug/m3 | NS | NS | NS | NS | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 |
| Acetone | 67-64-1 | ug/m3 | NS | NS | NS | NS | 79.8 | 1.00 | | 1.00 | 51.8 | 1.00 | | 1.00 | 46.1 | 1.00 | | 1.00 | 42 | 1.00 | | 1.00 | 13.1 | 1.00 | | 1.00 | 226 | 5.01 | | 5.01 | 71.9 | 1.00 | | 1.00 | 70 | 1.00 | | 1.00 | 34.4 | 1.00 | | 1.00 | 12.1 | 1.00 | | 1.00 | 39.4 | 1.00 | | 1.00 | 70.3 | 5.01 | | 5.01 | 149 | 5.01 | | 5.01 | 155 | 5.01 | | 5.01 |
| Acrylonitrile | 107-13-1 | ug/m3 | NS | NS | NS | NS | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 |
| Benzene | 71-43-2 | ug/m3 | NS | NS | NS | NS | 1.87 | 1.00 | | 1.00 | 2.02 | 1.00 | | 1.00 | < 1.00 | 1.00 | U | 1.00 | 1.47 | 1.00 | | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | 1.3 | 1.00 | | 1.00 | 4.66 | 1.00 | | 1.00 | 1.07 | 1.00 | | 1.00 | 1.7 | 1.00 | | 1.00 | 5.36 | 1.00 | | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 |
| Benzyl chloride | 100-44-7 | ug/m3 | NS | NS | NS | NS | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 |
| Bromodichloromethane | 75-27-4 | ug/m3 | NS | NS | NS | NS | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 |
| Bromoform | 75-25-2 | ug/m3 | NS | NS | NS | NS | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 |
| Bromomethane | 74-83-9 | ug/m3 | NS | NS | NS | NS | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 |
| Carbon Disulfide | 75-15-0 | ug/m3 | NS | NS | NS | NS | < 1.00 | 1.00 | U | 1.00 | 17.6 | 1.00 | | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | 2.22 | 1.00 | | 1.00 | < 1.00 | 1.00 | U | 1.00 | 11.1 | 1.00 | | 1.00 | < 1.00 | 1.00 | U | 1.00 | 5.69 | 1.00 | | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | 4.7 | 1.00 | | 1.00 |
| Carbon Tetrachloride | 56-23-5 | ug/m3 | NS | NS | 6 | NS | 0.47 | 0.20 | | 0.20 | 0.39 | 0.20 | | 0.20 | 0.41 | 0.20 | | 0.20 | 0.31 | 0.20 | | 0.20 | 0.52 | 0.20 | | 0.20 | 0.5 | 0.20 | | 0.20 | 0.38 | 0.20 | | 0.20 | 0.43 | 0.20 | | 0.20 | 0.27 | 0.20 | | 0.20 | 0.59 | 0.20 | | 0.20 | 0.8 | 0.20 | | 0.20 | 0.35 | 0.20 | | 0.20 | < 0.20 | 0.20 | U | 0.20 |
| Chlorobenzene | 108-90-7 | ug/m3 | NS | NS | NS | NS | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 |
| Chloroethane | 75-00-3 | ug/m3 | NS | NS | NS | NS | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 |
| Chloroform | 67-66-3 | ug/m3 | NS | NS | NS | NS | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | 4.98 | 1.00 | | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 |
| Chloromethane | 74-87-3 | ug/m3 | NS | NS | NS | NS | 2.17 | 1.00 | | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | 1.28 | 1.00 | | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | 1.11 | 1.00 | | 1.00 | < 1.00 | 1.00 | U | 1.00 | 1.52 | 1.00 | | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 |
| Cis-1,2-Dichloroethene | 156-59-2 | ug/m3 | NS | 6 | NS | NS | < 0.20 | 0.20 | U | 0.20 | < 0.20 | 0.20 | U | 0.20 | < 0.20 | 0.20 | U | 0.20 | < 0.20 | 0.20 | U | 0.20 | < 0.20 | 0.20 | U | 0.20 | < 0.20 | 0.20 | U | 0.20 | < 0.20 | 0.20 | U | 0.20 | < 0.20 | 0.20 | U | 0.20 | < 0.20 | 0.20 | U | 0.20 | < 0.20 | 0.20 | U | 0.20 | 0.22 | 0.20 | | 0.20 | < 0.20 | 0.20 | U | 0.20 | < 0.20 | 0.20 | U | 0.20 | < 0.20 | 0.20 | U | 0.20 |
| cis-1,3-Dichloropropene | 10061-01-5 | ug/m3 | NS | NS | NS | NS | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 |
| Cyclohexane | 110-82-7 | ug/m3 | NS | NS | NS | NS | < 1.00 | 1.00 | U | 1.00 | 5.99 | 1.00 | | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | 1.54 | 1.00 | | 1.00 | 11.4 | 1.00 | | 1.00 | 2.92 | 1.00 | | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | 2.98 | 1.00 | | 1.00 | 8.5 | 1.00 | | 1.00 | < 1.00 | 1.00 | U | 1.00 | 8.74 | 1.00 | | 1.00 |
| Dibromochloromethane | 124-48-1 | ug/m3 | NS | NS | NS | NS | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 |
| Dichlorodifluoromethane | 75-71-8 | ug/m3 | NS | NS | NS | NS | 1.47 | 1.00 | | 1.00 | 2.08 | 1.00 | | 1.00 | 2.22 | 1.00 | | 1.00 | < 1.00 | 1.00 | U | 1.00 | 2.25 | 1.00 | | 1.00 | 1.96 | 1.00 | | 1.00 | 2.19 | 1.00 | | 1.00 | 1.88 | 1.00 | | 1.00 | 1.35 | 1.00 | | 1.00 | < 1.00 | 1.00 | U | 1.00 | 1.57 | 1.00 | | 1.00 | 2.01 | 1.00 | | 1.00 | 1.82 | 1.00 | | 1.00 | 2.62 | 1.00 | | 1.00 |
| Ethanol | 64-17-5 | ug/m3 | NS | NS | NS | NS | 32.8 | 1.00 | | 1.00 | 250 | 5.01 | | 5.01 | 851 | 5.01 | E | 5.01 | 19.4 | 1.00 | | 1.00 | 13 | 1.00 | | 1.00 | 740 | 5.01 | E | 5.01 | 331 | 5.01 | | 5.01 | 11 | 1.00 | | 1.00 | 18.3 | 1.00 | | 1.00 | 10.1 | 1.00 | | 1.00 | 17.1 | 1.00 | | 1.00 | 348 | 5.01 | | 5.01 | 183 | 5.01 | | 5.01 | 1,020 | 5.01 | E | 5.01 |
| Ethyl acetate | 141-78-6 | ug/m3 | NS | NS | NS | NS | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 |
| Ethylbenzene | 100-41-4 | ug/m3 | NS | NS | NS | NS | 3.15 | 1.00 | | 1.00 | 2.96 | 1.00 | | 1.00 | 1.98 | 1.00 | | 1.00 | 2.64 | 1.00 | | 1.00 | < 1.00 | 1.00 | U | 1.00 | 2.46 | 1.00 | | 1.00 | 2.25 | 1.00 | | 1.00 | 2.74 | 1.00 | | 1.00 | 3.45 | 1.00 | | 1.00 | 2.74 | 1.00 | | 1.00 | 8.9 | 1.00 | | 1.00 | 5.16 | 1.00 | | 1.00 | 1.35 | 1.00 | | 1.00 | 1.07 | 1.00 | | 1.00 |
| Heptane | 142-82-5 | ug/m3 | NS | NS | NS | NS | 1.45 | 1.00 | | 1.00 | 10.4 | 1.00 | | 1.00 | < 1.00 | 1.00 | U | 1.00 | 1.67 | 1.00 | | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | 1.63 | 1.00 | | 1.00 | 25.7 | 1.00 | | 1.00 | 5.32 | 1.00 | | 1.00 | 1.38 | 1.00 | | 1.00 | < 1.00 | 1.00 | U | 1.00 | 3.71 | 1.00 | | 1.00 | 15.4 | 1.00 | | 1.00 | 1.24 | 1.00 | | 1.00 | 1.92 | 1.00 | | 1.00 |
| Hexachlorobutadiene | 87-68-3 | ug/m3 | NS | NS | NS | NS | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 |
| Hexane | 110-54-3 | ug/m3 | NS |

Table 2: Summary of Detected Compounds / Air Samples / Target Compounds

| G. C. Environmental, Inc.<br>101 Westmoreland Avenue<br>White Plains, NY 10606<br><br>GCE Project No:05-003-00 | Lab Sample Id<br>Collection Date<br>Client Id<br>Matrix | | CH92051<br>4/1/2021<br>SS-12 (5')<br>Air | | | | CH92052<br>3/30/2021<br>SS-7<br>Air | | | | CH92053<br>3/30/2021<br>SS-5<br>Air | | | | CH92054<br>4/2/2021<br>SS-10 (5')<br>Air | | | | CH92055<br>3/30/2021<br>OA-1<br>Air | | | | CH92056<br>3/30/2021<br>SS-6<br>Air | | | | CH92057<br>3/30/2021<br>SS-4<br>Air | | | | CH92058<br>4/2/2021<br>SS-11 (5')<br>Air | | | | CH92059<br>4/2/2021<br>SS-9 (5')<br>Air | | | | CH92060<br>3/30/2021<br>SS-1<br>Air | | | | CH92061<br>3/30/2021<br>SS-8 (4')<br>Air | | | | CH92062<br>3/30/2021<br>IA-1<br>Air | | | | CH92063<br>3/30/2021<br>SS-2<br>Air | | | | CH92064<br>3/30/2021<br>SS-3<br>Air | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CAS | Units | Result | RL | Qual | MDL | Result | RL | Qual | MDL | Result | RL | Qual | MDL | Result | RL | Qual | MDL | Result | RL | Qual | MDL | Result | RL | Qual | MDL | Result | RL | Qual | MDL | Result | RL | Qual | MDL | Result | RL | Qual | MDL | Result | RL | Qual | MDL | Result | RL | Qual | MDL | Result | RL | Qual | MDL | Result | RL | Qual | MDL | Result | RL | Qual | MDL |
| **Volatiles (TO15) By TO15** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1,1,1-Trichloroethane | 71-55-6 | ug/m3 | < 1.00 | 1.00 | U | 1.00 | 137 | 1.00 | | 1.00 | 76.9 | 1.00 | | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | 59.4 | 1.00 | | 1.00 | 145 | 1.00 | | 1.00 | 161 | 1.00 | | 1.00 | < 1.00 | 1.00 | U | 1.00 | 17.2 | 1.00 | | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | 54.5 | 1.00 | | 1.00 | 605 | 5.00 | | 5.00 |
| 1,1-Dichloroethane | 75-34-3 | ug/m3 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 |
| 1,1-Dichloroethene | 75-35-4 | ug/m3 | < 0.20 | 0.20 | U | 0.20 | < 0.20 | 0.20 | U | 0.20 | < 0.20 | 0.20 | U | 0.20 | < 0.20 | 0.20 | U | 0.20 | < 0.20 | 0.20 | U | 0.20 | < 0.20 | 0.20 | U | 0.20 | < 0.20 | 0.20 | U | 0.20 | 1.79 | 0.20 | | 0.20 | < 0.20 | 0.20 | U | 0.20 | < 0.20 | 0.20 | U | 0.20 | < 0.20 | 0.20 | U | 0.20 | < 0.20 | 0.20 | U | 0.20 | < 0.20 | 0.20 | U | 0.20 | < 0.20 | 0.20 | U | 0.20 |
| Cis-1,2-Dichloroethene | 156-59-2 | ug/m3 | < 0.20 | 0.20 | U | 0.20 | < 0.20 | 0.20 | U | 0.20 | < 0.20 | 0.20 | U | 0.20 | < 0.20 | 0.20 | U | 0.20 | < 0.20 | 0.20 | U | 0.20 | < 0.20 | 0.20 | U | 0.20 | < 0.20 | 0.20 | U | 0.20 | < 0.20 | 0.20 | U | 0.20 | < 0.20 | 0.20 | U | 0.20 | 0.22 | 0.20 | | 0.20 | < 0.20 | 0.20 | U | 0.20 | < 0.20 | 0.20 | U | 0.20 | < 0.20 | 0.20 | U | 0.20 | < 0.20 | 0.20 | U | 0.20 |
| Tetrachloroethene | 127-18-4 | ug/m3 | 0.33 | 0.25 | | 0.25 | 415 | 1.25 | | 1.25 | 15.9 | 0.25 | | 0.25 | 0.56 | 0.25 | | 0.25 | < 0.25 | 0.25 | U | 0.25 | 110 | 0.25 | | 0.25 | 368 | 1.25 | | 1.25 | 51.5 | 0.25 | | 0.25 | 3.22 | 0.25 | | 0.25 | 32 | 0.25 | | 0.25 | 0.72 | 0.25 | | 0.25 | < 0.25 | 0.25 | U | 0.25 | 53.1 | 0.25 | | 0.25 | 65.3 | 0.25 | | 0.25 |
| Trans-1,2-Dichloroethene | 156-60-5 | ug/m3 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 | < 1.00 | 1.00 | U | 1.00 |
| Trichloroethene | 79-01-6 | ug/m3 | < 0.20 | 0.20 | U | 0.20 | 0.84 | 0.20 | | 0.20 | < 0.20 | 0.20 | U | 0.20 | < 0.20 | 0.20 | U | 0.20 | < 0.20 | 0.20 | U | 0.20 | < 0.20 | 0.20 | U | 0.20 | 0.7 | 0.20 | | 0.20 | 0.54 | 0.20 | | 0.20 | < 0.20 | 0.20 | U | 0.20 | 0.36 | 0.20 | | 0.20 | < 0.20 | 0.20 | U | 0.20 | < 0.20 | 0.20 | U | 0.20 | < 0.20 | 0.20 | U | 0.20 | 0.97 | 0.20 | | 0.20 |
| Vinyl Chloride | 75-01-4 | ug/m3 | < 0.20 | 0.20 | U | 0.20 | < 0.20 | 0.20 | U | 0.20 | < 0.20 | 0.20 | U | 0.20 | < 0.20 | 0.20 | U | 0.20 | < 0.20 | 0.20 | U | 0.20 | < 0.20 | 0.20 | U | 0.20 | < 0.20 | 0.20 | U | 0.20 | < 0.20 | 0.20 | U | 0.20 | < 0.20 | 0.20 | U | 0.20 | < 0.20 | 0.20 | U | 0.20 | < 0.20 | 0.20 | U | 0.20 | < 0.20 | 0.20 | U | 0.20 | < 0.20 | 0.20 | U | 0.20 | < 0.20 | 0.20 | U | 0.20 |

Qualifiers

U — The compound was anlayzed 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.

Result Detected

**Table 3**
**Table 3.1 Air guideline values derived by the NYSDOH**

| Chemical | | Air Guideline Value (mcg/m3) | Reference |
|---|---|---|---|
| Methylene chloride (also referred to as dichloromethane | MeCI | 60 | 1 |
| Polychlorinated biphenyls | PCBs | 1* | 2,3 |
| Tetrachlorodibenzo-*p*-dioxin | TCDD | 0.00001* | 3,4 |
| Tetrachloroethene | PCE | 100 | 5 |
| Trichloroethene | TCE | 5 | 6,7 |

*The guideline is specific to indoor air.

## Table 4:Volatile Chemicals and Their Decision Matrixes

Matrix A:

**Analytes Assigned:**
Trichloroethene (TCE), *cis*-1,2-Dichloroethene (*c*12-DCE), 1,1-Dichloroethene (11-DCE), Carbon Tetrachloride

| | **INDOOR AIR CONCENTRATION of COMPOUND (mcg/m³)** | | |
|---|---|---|---|
| **SUB-SLAB VAPOR CONCENTRATION of COMPOUND (mcg/m³)** | < 0.2 | 0.2 to < 1 | 1 and above |
| < 6 | 1. No further action | 2. No Further Action | 3. IDENTIFY SOURCE(S) and RESAMPLE or MITIGATE |
| 6 to < 60 | 4. No further action | 5. MONITOR | 6. MITIGATE |
| 60 and above | 7. MITIGATE | 8. MITIGATE | 9. MITIGATE |

Matrix B:

**Analytes Assigned:**
Tetrachloroethene (PCE), 1,1,1-Trichloroethane (111-TCA), Methylene Chloride

| | **INDOOR AIR CONCENTRATION of COMPOUND (mcg/m³)** | | |
|---|---|---|---|
| **SUB-SLAB VAPOR CONCENTRATION of COMPOUND (mcg/m³)** | < 3 | 3 to < 10 | 10 and above |
| < 100 | 1. No further action | 2. No Further Action | 3. IDENTIFY SOURCE(S) and RESAMPLE or MITIGATE |
| 100 to < 1,000 | 4. No further action | 5. MONITOR | 6. MITIGATE |
| 1,000 and above | 7. MITIGATE | 8. MITIGATE | 9. MITIGATE |

Matrix C:

**Analytes Assigned:**
Vinyl Chloride

| | **INDOOR AIR CONCENTRATION of COMPOUND (mcg/m³)** | |
|---|---|---|
| **SUB-SLAB VAPOR CONCENTRATION of COMPOUND (mcg/m³)** | < 0.2 | 0.2 and above |
| < 6 | 1. No further action | 2. IDENTIFY SOURCE(S) and RESAMPLE or MITIGATE |
| 6 to < 60 | 3. MONITOR | 4. MITIGATE |
| 60 and above | 5. MITIGATE | 6. MITIGATE |

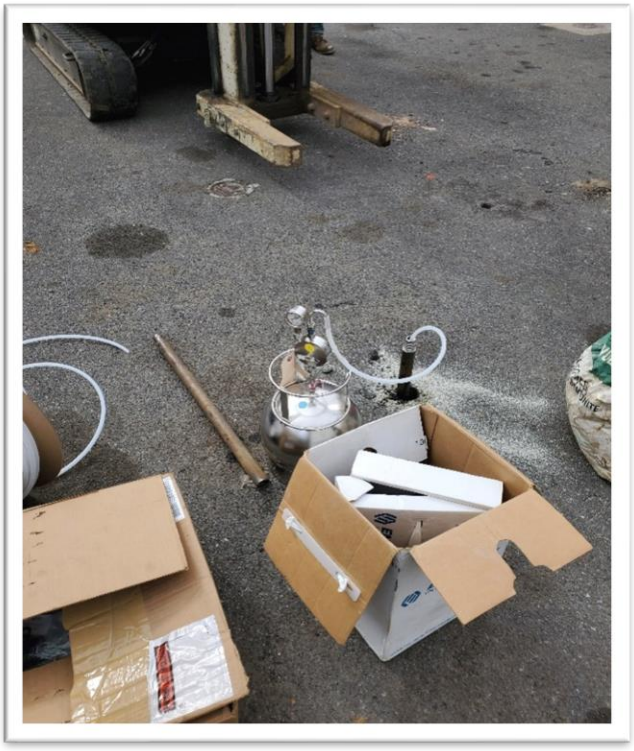
# APPENDIX A

# SVE System Evaluation Work- Pholog

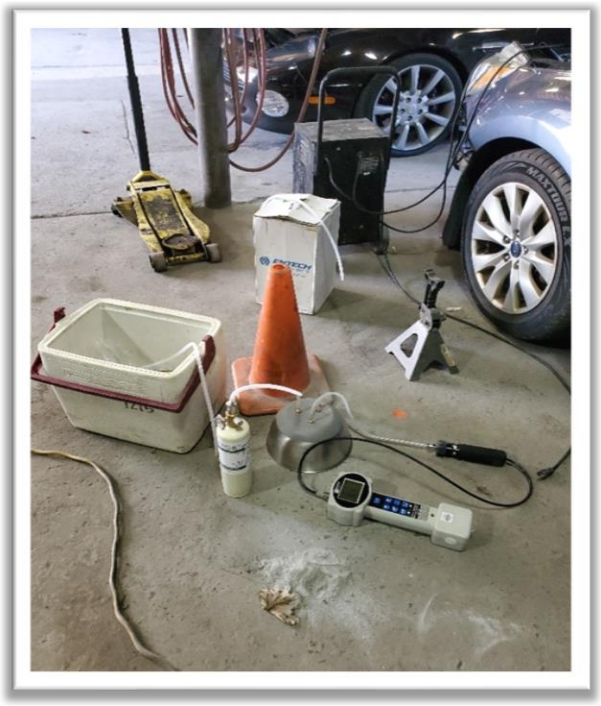


**1. Installing vapor probes by utilizing a geoprobe**

**in the exterior portion of the site**



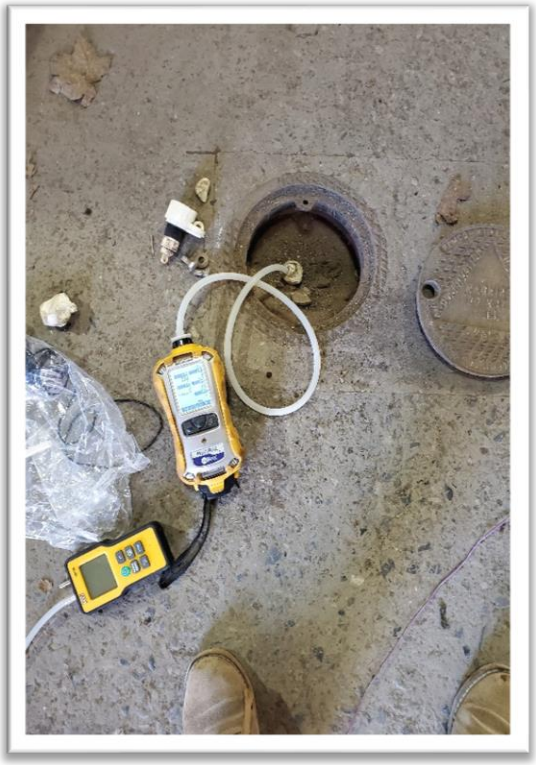
**2. Soil vapor sampling by utilizing a suma canister**



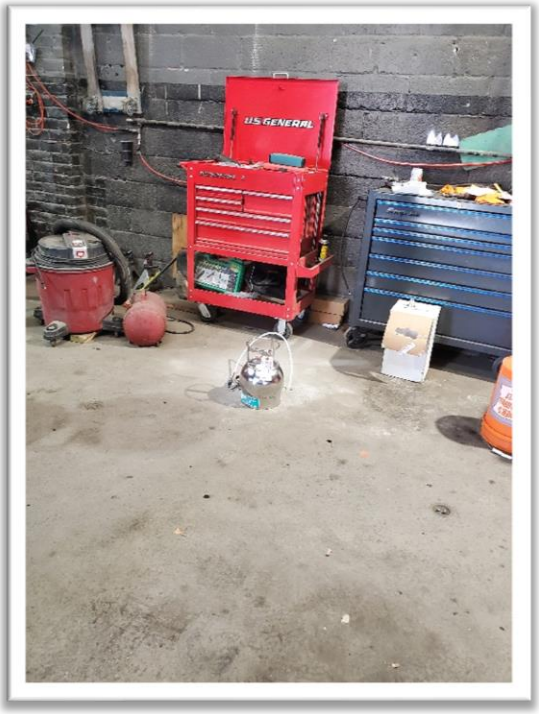
**3. Performing short circuit test by using helium gas prior air sampling**



**4. Performing atmospheric pressure test by using a manometer**



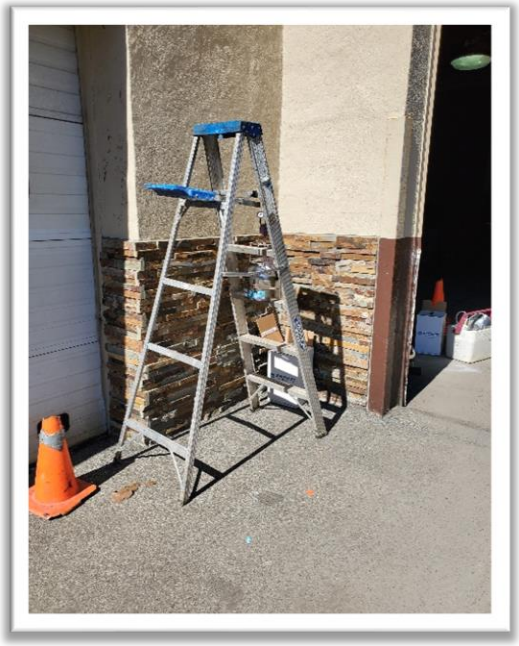
**5. Performing PID reading at the SVE well**




**6. Performing sub-slab sampling in the garage area**



**7. Performing sub-slab and indoor air samplings in the office area**



**8. Performing outdoor air sampling**

# APPENDIX B

PHOENIX
Environmental Laboratories, Inc.

**Thursday, April 08, 2021**

**Attn: Mr. Fulya Toylular**
**G.C. Environmental, Inc.**
**22 Oak Street**
**Bayshore, NY 11706**

**Project ID:** **05-003-00 (101 WESTMORELAND AVE)**
**SDG ID:** **GCH92051**
**Sample ID#s:** **CH92051 - CH92064**

**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,**

**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 # 11301

# SDG Comments

April 08, 2021

SDG I.D.: GCH92051

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.

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

NY # 11301

# Sample Id Cross Reference

April 08, 2021

SDG I.D.: GCH92051

Project ID: 05-003-00 (101 WESTMORELAND AVE)

| Client Id | Lab Id | Matrix |
|---|---|---|
| SS-12 (5') | CH92051 | AIR |
| SS-7 | CH92052 | AIR |
| SS-5 | CH92053 | AIR |
| SS-10 (5') | CH92054 | AIR |
| OA-1 | CH92055 | AIR |
| SS-6 | CH92056 | AIR |
| SS-4 | CH92057 | AIR |
| SS-11 (5') | CH92058 | AIR |
| SS-9 (5') | CH92059 | AIR |
| SS-1 | CH92060 | AIR |
| SS-8 (4') | CH92061 | AIR |
| IA-1 | CH92062 | AIR |
| SS-2 | CH92063 | AIR |
| SS-3 | CH92064 | AIR |

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

# Analysis Report

April 08, 2021

FOR: Attn: Mr. Fulya Toylular
G.C. Environmental, Inc.
22 Oak Street
Bayshore, NY 11706

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | AIR | Collected by: | FT | 04/01/21 | 15:50 |
| Location Code: | GC-ENV | Received by: | B | 04/05/21 | 14:35 |
| Rush Request: | Standard | Analyzed by: | see "By" below | | |
| P.O.#: | 11935 | | | | |
| Canister Id: | 469 | | | | |

## Laboratory Data

SDG ID: GCH92051
Phoenix ID: CH92051

Project ID: 05-003-00 (101 WESTMORELAND AVE)
Client ID: SS-12 (5')

| Parameter | ppbv Result | ppbv RL | LOD/ MDL | ug/m3 Result | ug/m3 RL | LOD/ MDL | Date/Time | By | Dilution | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Volatiles (TO15)** | | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | *0.146* | 0.146 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| 1,1,1-Trichloroethane | ND | *0.183* | 0.183 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,1,2,2-Tetrachloroethane | ND | *0.146* | 0.146 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,1,2-Trichloroethane | ND | *0.183* | 0.183 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,1-Dichloroethane | ND | *0.247* | 0.247 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,1-Dichloroethene | ND | *0.051* | 0.051 | ND | *0.20* | 0.20 | 04/06/21 | KCA | 1 | |
| 1,2,4-Trichlorobenzene | ND | *0.135* | 0.135 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2,4-Trimethylbenzene | ND | *0.204* | 0.204 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2-Dibromoethane(EDB) | ND | *0.130* | 0.130 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2-Dichlorobenzene | ND | *0.166* | 0.166 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2-Dichloroethane | ND | *0.247* | 0.247 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2-dichloropropane | ND | *0.217* | 0.217 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2-Dichlorotetrafluoroethane | ND | *0.143* | 0.143 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,3,5-Trimethylbenzene | ND | *0.204* | 0.204 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,3-Butadiene | ND | *0.452* | 0.452 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,3-Dichlorobenzene | ND | *0.166* | 0.166 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,4-Dichlorobenzene | ND | *0.166* | 0.166 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,4-Dioxane | ND | *0.278* | 0.278 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 2-Hexanone(MBK) | ND | *0.244* | 0.244 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| 4-Ethyltoluene | ND | *0.204* | 0.204 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| 4-Isopropyltoluene | ND | *0.182* | 0.182 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| 4-Methyl-2-pentanone(MIBK) | ND | *0.244* | 0.244 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Acetone | 33.6 | *0.421* | 0.421 | 79.8 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Acrylonitrile | ND | *0.461* | 0.461 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Benzene | 0.586 | *0.313* | 0.313 | 1.87 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Benzyl chloride | ND | *0.193* | 0.193 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |

Project ID: 05-003-00 (101 WESTMORELAND AVE) Phoenix I.D.: CH92051

Client ID: SS-12 (5')

| Parameter | ppbv Result | ppbv RL | LOD/ MDL | ug/m3 Result | ug/m3 RL | LOD/ MDL | Date/Time | By | Dilution | |
|---|---|---|---|---|---|---|---|---|---|---|
| Bromodichloromethane | ND | *0.149* | 0.149 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Bromoform | ND | *0.097* | 0.097 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Bromomethane | ND | *0.258* | 0.258 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Carbon Disulfide | ND | *0.321* | 0.321 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Carbon Tetrachloride | 0.075 | *0.032* | 0.032 | 0.47 | *0.20* | 0.20 | 04/06/21 | KCA | 1 | |
| Chlorobenzene | ND | *0.217* | 0.217 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Chloroethane | ND | *0.379* | 0.379 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Chloroform | ND | *0.205* | 0.205 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Chloromethane | 1.05 | *0.485* | 0.485 | 2.17 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Cis-1,2-Dichloroethene | ND | *0.051* | 0.051 | ND | *0.20* | 0.20 | 04/06/21 | KCA | 1 | |
| cis-1,3-Dichloropropene | ND | *0.221* | 0.221 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Cyclohexane | ND | *0.291* | 0.291 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Dibromochloromethane | ND | *0.118* | 0.118 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Dichlorodifluoromethane | 0.298 | *0.202* | 0.202 | 1.47 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Ethanol | 17.4 | *0.531* | 0.531 | 32.8 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| Ethyl acetate | ND | *0.278* | 0.278 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| Ethylbenzene | 0.725 | *0.230* | 0.230 | 3.15 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Heptane | 0.354 | *0.244* | 0.244 | 1.45 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Hexachlorobutadiene | ND | *0.094* | 0.094 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Hexane | 0.292 | *0.284* | 0.284 | 1.03 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Isopropylalcohol | 2.01 | *0.407* | 0.407 | 4.94 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Isopropylbenzene | ND | *0.204* | 0.204 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| m,p-Xylene | 1.09 | *0.230* | 0.230 | 4.73 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Methyl Ethyl Ketone | 4.21 | *0.339* | 0.339 | 12.4 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Methyl tert-butyl ether(MTBE) | ND | *0.278* | 0.278 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Methylene Chloride | ND | *0.864* | 0.864 | ND | *3.00* | 3.00 | 04/06/21 | KCA | 1 | |
| n-Butylbenzene | ND | *0.182* | 0.182 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| o-Xylene | 0.376 | *0.230* | 0.230 | 1.63 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Propylene | 2.49 | *0.581* | 0.581 | 4.28 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| sec-Butylbenzene | ND | *0.182* | 0.182 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| Styrene | 0.887 | *0.235* | 0.235 | 3.78 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Tetrachloroethene | 0.049 | *0.037* | 0.037 | 0.33 | *0.25* | 0.25 | 04/06/21 | KCA | 1 | |
| Tetrahydrofuran | 2.32 | *0.339* | 0.339 | 6.84 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| Toluene | 4.12 | *0.266* | 0.266 | 15.5 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Trans-1,2-Dichloroethene | ND | *0.252* | 0.252 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| trans-1,3-Dichloropropene | ND | *0.221* | 0.221 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Trichloroethene | ND | *0.037* | 0.037 | ND | *0.20* | 0.20 | 04/06/21 | KCA | 1 | |
| Trichlorofluoromethane | 0.235 | *0.178* | 0.178 | 1.32 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Trichlorotrifluoroethane | ND | *0.131* | 0.131 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Vinyl Chloride | ND | *0.078* | 0.078 | ND | *0.20* | 0.20 | 04/06/21 | KCA | 1 | |
| **QA/QC Surrogates/Internals** | | | | | | | | | | |
| % Bromofluorobenzene | 101 | % | % | 101 | % | % | 04/06/21 | KCA | 1 | |
| % IS-1,4-Difluorobenzene | 94 | % | % | 94 | % | % | 04/06/21 | KCA | 1 | |
| % IS-Bromochloromethane | 95 | % | % | 95 | % | % | 04/06/21 | KCA | 1 | |
| % IS-Chlorobenzene-d5 | 96 | % | % | 96 | % | % | 04/06/21 | KCA | 1 | |

**Ver 1**

Project ID: 05-003-00 (101 WESTMORELAND AVE) Phoenix I.D.: CH92051

Client ID: SS-12 (5')

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

1 = This parameter is not certified by 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 08, 2021**

**Reviewed and Released by: Rashmi Makol, Project Manager**

PHOENIX

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

# Analysis Report

April 08, 2021

FOR: Attn: Mr. Fulya Toylular
G.C. Environmental, Inc.
22 Oak Street
Bayshore, NY 11706

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | AIR | Collected by: | FT | 03/30/21 | 15:10 |
| Location Code: | GC-ENV | Received by: | B | 04/05/21 | 14:35 |
| Rush Request: | Standard | Analyzed by: | see "By" below | | |
| P.O.#: | 11935 | | | | |
| Canister Id: | 28567 | | | | |

## Laboratory Data

SDG ID: GCH92051
Phoenix ID: CH92052

Project ID: 05-003-00 (101 WESTMORELAND AVE)
Client ID: SS-7

| Parameter | ppbv Result | ppbv RL | LOD/ MDL | ug/m3 Result | ug/m3 RL | LOD/ MDL | Date/Time | By | Dilution | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Volatiles (TO15)** | | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | *0.146* | 0.146 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| 1,1,1-Trichloroethane | 25.1 | *0.183* | 0.183 | 137 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,1,2,2-Tetrachloroethane | ND | *0.146* | 0.146 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,1,2-Trichloroethane | ND | *0.183* | 0.183 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,1-Dichloroethane | ND | *0.247* | 0.247 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,1-Dichloroethene | ND | *0.051* | 0.051 | ND | *0.20* | 0.20 | 04/06/21 | KCA | 1 | |
| 1,2,4-Trichlorobenzene | ND | *0.135* | 0.135 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2,4-Trimethylbenzene | 0.226 | *0.204* | 0.204 | 1.11 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2-Dibromoethane(EDB) | ND | *0.130* | 0.130 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2-Dichlorobenzene | ND | *0.166* | 0.166 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2-Dichloroethane | ND | *0.247* | 0.247 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2-dichloropropane | ND | *0.217* | 0.217 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2-Dichlorotetrafluoroethane | ND | *0.143* | 0.143 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,3,5-Trimethylbenzene | ND | *0.204* | 0.204 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,3-Butadiene | ND | *0.452* | 0.452 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,3-Dichlorobenzene | ND | *0.166* | 0.166 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,4-Dichlorobenzene | ND | *0.166* | 0.166 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,4-Dioxane | ND | *0.278* | 0.278 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 2-Hexanone(MBK) | ND | *0.244* | 0.244 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| 4-Ethyltoluene | 0.270 | *0.204* | 0.204 | 1.33 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| 4-Isopropyltoluene | ND | *0.182* | 0.182 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| 4-Methyl-2-pentanone(MIBK) | ND | *0.244* | 0.244 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Acetone | 21.8 | *0.421* | 0.421 | 51.8 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Acrylonitrile | ND | *0.461* | 0.461 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Benzene | 0.632 | *0.313* | 0.313 | 2.02 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Benzyl chloride | ND | *0.193* | 0.193 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |

Project ID: 05-003-00 (101 WESTMORELAND AVE) Phoenix I.D.: CH92052

Client ID: SS-7

| Parameter | ppbv Result | ppbv RL | LOD/ MDL | ug/m3 Result | ug/m3 RL | LOD/ MDL | Date/Time | By | Dilution | |
|---|---|---|---|---|---|---|---|---|---|---|
| Bromodichloromethane | ND | *0.149* | 0.149 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Bromoform | ND | *0.097* | 0.097 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Bromomethane | ND | *0.258* | 0.258 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Carbon Disulfide | 5.65 | *0.321* | 0.321 | 17.6 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Carbon Tetrachloride | 0.062 | *0.032* | 0.032 | 0.39 | *0.20* | 0.20 | 04/06/21 | KCA | 1 | |
| Chlorobenzene | ND | *0.217* | 0.217 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Chloroethane | ND | *0.379* | 0.379 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Chloroform | ND | *0.205* | 0.205 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Chloromethane | ND | *0.485* | 0.485 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Cis-1,2-Dichloroethene | ND | *0.051* | 0.051 | ND | *0.20* | 0.20 | 04/06/21 | KCA | 1 | |
| cis-1,3-Dichloropropene | ND | *0.221* | 0.221 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Cyclohexane | 1.74 | *0.291* | 0.291 | 5.99 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Dibromochloromethane | ND | *0.118* | 0.118 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Dichlorodifluoromethane | 0.420 | *0.202* | 0.202 | 2.08 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Ethanol | 133 | *2.66* | 2.66 | 250 | *5.01* | 5.01 | 04/05/21 | KCA | 5 | 1 |
| Ethyl acetate | ND | *0.278* | 0.278 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| Ethylbenzene | 0.681 | *0.230* | 0.230 | 2.96 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Heptane | 2.55 | *0.244* | 0.244 | 10.4 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Hexachlorobutadiene | ND | *0.094* | 0.094 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Hexane | 2.00 | *0.284* | 0.284 | 7.05 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Isopropylalcohol | 5.20 | *0.407* | 0.407 | 12.8 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Isopropylbenzene | ND | *0.204* | 0.204 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| m,p-Xylene | 1.79 | *0.230* | 0.230 | 7.77 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Methyl Ethyl Ketone | 0.914 | *0.339* | 0.339 | 2.69 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Methyl tert-butyl ether(MTBE) | ND | *0.278* | 0.278 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Methylene Chloride | ND | *0.864* | 0.864 | ND | *3.00* | 3.00 | 04/06/21 | KCA | 1 | |
| n-Butylbenzene | ND | *0.182* | 0.182 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| o-Xylene | 0.698 | *0.230* | 0.230 | 3.03 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Propylene | ND | *0.581* | 0.581 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| sec-Butylbenzene | ND | *0.182* | 0.182 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| Styrene | ND | *0.235* | 0.235 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Tetrachloroethene | 61.2 | *0.184* | 0.184 | 415 | *1.25* | 1.25 | 04/05/21 | KCA | 5 | |
| Tetrahydrofuran | ND | *0.339* | 0.339 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| Toluene | 5.50 | *0.266* | 0.266 | 20.7 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Trans-1,2-Dichloroethene | ND | *0.252* | 0.252 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| trans-1,3-Dichloropropene | ND | *0.221* | 0.221 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Trichloroethene | 0.157 | *0.037* | 0.037 | 0.84 | *0.20* | 0.20 | 04/06/21 | KCA | 1 | |
| Trichlorofluoromethane | 0.232 | *0.178* | 0.178 | 1.30 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Trichlorotrifluoroethane | ND | *0.131* | 0.131 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Vinyl Chloride | ND | *0.078* | 0.078 | ND | *0.20* | 0.20 | 04/06/21 | KCA | 1 | |
| **QA/QC Surrogates/Internals** | | | | | | | | | | |
| % Bromofluorobenzene | 103 | % | % | 103 | % | % | 04/06/21 | KCA | 1 | |
| % IS-1,4-Difluorobenzene | 93 | % | % | 93 | % | % | 04/06/21 | KCA | 1 | |
| % IS-Bromochloromethane | 95 | % | % | 95 | % | % | 04/06/21 | KCA | 1 | |
| % IS-Chlorobenzene-d5 | 97 | % | % | 97 | % | % | 04/06/21 | KCA | 1 | |
| % Bromofluorobenzene (5x) | 101 | % | % | 101 | % | % | 04/05/21 | KCA | 5 | |
| % IS-1,4-Difluorobenzene (5x) | 74 | % | % | 74 | % | % | 04/05/21 | KCA | 5 | |
| % IS-Bromochloromethane (5x) | 70 | % | % | 70 | % | % | 04/05/21 | KCA | 5 | |
| % IS-Chlorobenzene-d5 (5x) | 72 | % | % | 72 | % | % | 04/05/21 | KCA | 5 | |

Project ID: 05-003-00 (101 WESTMORELAND AVE) Phoenix I.D.: CH92052

Client ID: SS-7

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

1 = This parameter is not certified by 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 08, 2021**

**Reviewed and Released by: Rashmi Makol, Project Manager**

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

# Analysis Report

April 08, 2021

FOR: Attn: Mr. Fulya Toylular
G.C. Environmental, Inc.
22 Oak Street
Bayshore, NY 11706

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | AIR | Collected by: | FT | 03/30/21 | 13:36 |
| Location Code: | GC-ENV | Received by: | B | 04/05/21 | 14:35 |
| Rush Request: | Standard | Analyzed by: | see "By" below | | |
| P.O.#: | 11935 | | | | |
| Canister Id: | 13561 | | | | |

## Laboratory Data

SDG ID: GCH92051
Phoenix ID: CH92053

Project ID: 05-003-00 (101 WESTMORELAND AVE)
Client ID: SS-5

| Parameter | ppbv Result | ppbv RL | LOD/ MDL | ug/m3 Result | ug/m3 RL | LOD/ MDL | Date/Time | By | Dilution | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Volatiles (TO15)** | | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | *0.146* | 0.146 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| 1,1,1-Trichloroethane | 14.1 | *0.183* | 0.183 | 76.9 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,1,2,2-Tetrachloroethane | ND | *0.146* | 0.146 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,1,2-Trichloroethane | ND | *0.183* | 0.183 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,1-Dichloroethane | ND | *0.247* | 0.247 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,1-Dichloroethene | ND | *0.051* | 0.051 | ND | *0.20* | 0.20 | 04/06/21 | KCA | 1 | |
| 1,2,4-Trichlorobenzene | ND | *0.135* | 0.135 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2,4-Trimethylbenzene | ND | *0.204* | 0.204 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2-Dibromoethane(EDB) | ND | *0.130* | 0.130 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2-Dichlorobenzene | ND | *0.166* | 0.166 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2-Dichloroethane | ND | *0.247* | 0.247 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2-dichloropropane | ND | *0.217* | 0.217 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2-Dichlorotetrafluoroethane | ND | *0.143* | 0.143 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,3,5-Trimethylbenzene | ND | *0.204* | 0.204 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,3-Butadiene | ND | *0.452* | 0.452 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,3-Dichlorobenzene | ND | *0.166* | 0.166 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,4-Dichlorobenzene | ND | *0.166* | 0.166 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,4-Dioxane | 6.26 | *0.278* | 0.278 | 22.5 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 2-Hexanone(MBK) | ND | *0.244* | 0.244 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| 4-Ethyltoluene | ND | *0.204* | 0.204 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| 4-Isopropyltoluene | ND | *0.182* | 0.182 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| 4-Methyl-2-pentanone(MIBK) | ND | *0.244* | 0.244 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Acetone | 19.4 | *0.421* | 0.421 | 46.1 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Acrylonitrile | ND | *0.461* | 0.461 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Benzene | ND | *0.313* | 0.313 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Benzyl chloride | ND | *0.193* | 0.193 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |

Project ID: 05-003-00 (101 WESTMORELAND AVE) Phoenix I.D.: CH92053

Client ID: SS-5

| Parameter | ppbv Result | ppbv RL | LOD/ MDL | ug/m3 Result | ug/m3 RL | LOD/ MDL | Date/Time | By | Dilution | |
|---|---|---|---|---|---|---|---|---|---|---|
| Bromodichloromethane | ND | *0.149* | 0.149 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Bromoform | ND | *0.097* | 0.097 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Bromomethane | ND | *0.258* | 0.258 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Carbon Disulfide | ND | *0.321* | 0.321 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Carbon Tetrachloride | 0.065 | *0.032* | 0.032 | 0.41 | *0.20* | 0.20 | 04/06/21 | KCA | 1 | |
| Chlorobenzene | ND | *0.217* | 0.217 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Chloroethane | ND | *0.379* | 0.379 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Chloroform | ND | *0.205* | 0.205 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Chloromethane | ND | *0.485* | 0.485 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Cis-1,2-Dichloroethene | ND | *0.051* | 0.051 | ND | *0.20* | 0.20 | 04/06/21 | KCA | 1 | |
| cis-1,3-Dichloropropene | ND | *0.221* | 0.221 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Cyclohexane | ND | *0.291* | 0.291 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Dibromochloromethane | ND | *0.118* | 0.118 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Dichlorodifluoromethane | 0.450 | *0.202* | 0.202 | 2.22 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Ethanol | 452 | E *2.66* | 2.66 | 851 | *5.01* | 5.01 | 04/05/21 | KCA | 5 | 1 |
| Ethyl acetate | ND | *0.278* | 0.278 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| Ethylbenzene | 0.456 | *0.230* | 0.230 | 1.98 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Heptane | ND | *0.244* | 0.244 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Hexachlorobutadiene | ND | *0.094* | 0.094 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Hexane | ND | *0.284* | 0.284 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Isopropylalcohol | 16.6 | *0.407* | 0.407 | 40.8 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Isopropylbenzene | ND | *0.204* | 0.204 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| m,p-Xylene | 0.796 | *0.230* | 0.230 | 3.45 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Methyl Ethyl Ketone | 0.863 | *0.339* | 0.339 | 2.54 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Methyl tert-butyl ether(MTBE) | ND | *0.278* | 0.278 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Methylene Chloride | ND | *0.864* | 0.864 | ND | *3.00* | 3.00 | 04/06/21 | KCA | 1 | |
| n-Butylbenzene | ND | *0.182* | 0.182 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| o-Xylene | 0.289 | *0.230* | 0.230 | 1.25 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Propylene | ND | *0.581* | 0.581 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| sec-Butylbenzene | ND | *0.182* | 0.182 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| Styrene | ND | *0.235* | 0.235 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Tetrachloroethene | 2.34 | *0.037* | 0.037 | 15.9 | *0.25* | 0.25 | 04/06/21 | KCA | 1 | |
| Tetrahydrofuran | ND | *0.339* | 0.339 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| Toluene | 2.88 | *0.266* | 0.266 | 10.8 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Trans-1,2-Dichloroethene | ND | *0.252* | 0.252 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| trans-1,3-Dichloropropene | ND | *0.221* | 0.221 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Trichloroethene | ND | *0.037* | 0.037 | ND | *0.20* | 0.20 | 04/06/21 | KCA | 1 | |
| Trichlorofluoromethane | 0.199 | *0.178* | 0.178 | 1.12 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Trichlorotrifluoroethane | ND | *0.131* | 0.131 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Vinyl Chloride | ND | *0.078* | 0.078 | ND | *0.20* | 0.20 | 04/06/21 | KCA | 1 | |
| **QA/QC Surrogates/Internals** | | | | | | | | | | |
| % Bromofluorobenzene | 99 | % | % | 99 | % | % | 04/06/21 | KCA | 1 | |
| % IS-1,4-Difluorobenzene | 98 | % | % | 98 | % | % | 04/06/21 | KCA | 1 | |
| % IS-Bromochloromethane | 99 | % | % | 99 | % | % | 04/06/21 | KCA | 1 | |
| % IS-Chlorobenzene-d5 | 101 | % | % | 101 | % | % | 04/06/21 | KCA | 1 | |
| % Bromofluorobenzene (5x) | 98 | % | % | 98 | % | % | 04/05/21 | KCA | 5 | |
| % IS-1,4-Difluorobenzene (5x) | 72 | % | % | 72 | % | % | 04/05/21 | KCA | 5 | |
| % IS-Bromochloromethane (5x) | 71 | % | % | 71 | % | % | 04/05/21 | KCA | 5 | |
| % IS-Chlorobenzene-d5 (5x) | 71 | % | % | 71 | % | % | 04/05/21 | KCA | 5 | |

Project ID: 05-003-00 (101 WESTMORELAND AVE) Phoenix I.D.: CH92053

Client ID: SS-5

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

1 = This parameter is not certified by 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:

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 08, 2021**

**Reviewed and Released by: Rashmi Makol, Project Manager**

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

# Analysis Report

April 08, 2021

FOR: Attn: Mr. Fulya Toylular
G.C. Environmental, Inc.
22 Oak Street
Bayshore, NY 11706

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | AIR | Collected by: | FT | 04/02/21 | 12:45 |
| Location Code: | GC-ENV | Received by: | B | 04/05/21 | 14:35 |
| Rush Request: | Standard | Analyzed by: | see "By" below | | |
| P.O.#: | 11935 | | | | |
| Canister Id: | 12864 | | | | |

## Laboratory Data

SDG ID: GCH92051
Phoenix ID: CH92054

Project ID: 05-003-00 (101 WESTMORELAND AVE)
Client ID: SS-10 (5')

| Parameter | ppbv Result | ppbv RL | LOD/ MDL | ug/m3 Result | ug/m3 RL | LOD/ MDL | Date/Time | By | Dilution | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Volatiles (TO15)** | | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | *0.146* | 0.146 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| 1,1,1-Trichloroethane | ND | *0.183* | 0.183 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,1,2,2-Tetrachloroethane | ND | *0.146* | 0.146 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,1,2-Trichloroethane | ND | *0.183* | 0.183 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,1-Dichloroethane | ND | *0.247* | 0.247 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,1-Dichloroethene | ND | *0.051* | 0.051 | ND | *0.20* | 0.20 | 04/06/21 | KCA | 1 | |
| 1,2,4-Trichlorobenzene | ND | *0.135* | 0.135 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2,4-Trimethylbenzene | ND | *0.204* | 0.204 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2-Dibromoethane(EDB) | ND | *0.130* | 0.130 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2-Dichlorobenzene | ND | *0.166* | 0.166 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2-Dichloroethane | ND | *0.247* | 0.247 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2-dichloropropane | ND | *0.217* | 0.217 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2-Dichlorotetrafluoroethane | ND | *0.143* | 0.143 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,3,5-Trimethylbenzene | ND | *0.204* | 0.204 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,3-Butadiene | ND | *0.452* | 0.452 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,3-Dichlorobenzene | ND | *0.166* | 0.166 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,4-Dichlorobenzene | ND | *0.166* | 0.166 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,4-Dioxane | ND | *0.278* | 0.278 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 2-Hexanone(MBK) | ND | *0.244* | 0.244 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| 4-Ethyltoluene | ND | *0.204* | 0.204 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| 4-Isopropyltoluene | ND | *0.182* | 0.182 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| 4-Methyl-2-pentanone(MIBK) | ND | *0.244* | 0.244 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Acetone | 17.7 | *0.421* | 0.421 | 42.0 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Acrylonitrile | ND | *0.461* | 0.461 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Benzene | 0.461 | *0.313* | 0.313 | 1.47 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Benzyl chloride | ND | *0.193* | 0.193 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |

Project ID: 05-003-00 (101 WESTMORELAND AVE) Phoenix I.D.: CH92054

Client ID: SS-10 (5')

| Parameter | ppbv Result | ppbv RL | LOD/ MDL | ug/m3 Result | ug/m3 RL | LOD/ MDL | Date/Time | By | Dilution | |
|---|---|---|---|---|---|---|---|---|---|---|
| Bromodichloromethane | ND | *0.149* | 0.149 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Bromoform | ND | *0.097* | 0.097 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Bromomethane | ND | *0.258* | 0.258 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Carbon Disulfide | ND | *0.321* | 0.321 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Carbon Tetrachloride | 0.050 | *0.032* | 0.032 | 0.31 | *0.20* | 0.20 | 04/06/21 | KCA | 1 | |
| Chlorobenzene | ND | *0.217* | 0.217 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Chloroethane | ND | *0.379* | 0.379 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Chloroform | ND | *0.205* | 0.205 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Chloromethane | ND | *0.485* | 0.485 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Cis-1,2-Dichloroethene | ND | *0.051* | 0.051 | ND | *0.20* | 0.20 | 04/06/21 | KCA | 1 | |
| cis-1,3-Dichloropropene | ND | *0.221* | 0.221 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Cyclohexane | ND | *0.291* | 0.291 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Dibromochloromethane | ND | *0.118* | 0.118 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Dichlorodifluoromethane | ND | *0.202* | 0.202 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Ethanol | 10.3 | *0.531* | 0.531 | 19.4 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| Ethyl acetate | ND | *0.278* | 0.278 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| Ethylbenzene | 0.609 | *0.230* | 0.230 | 2.64 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Heptane | 0.408 | *0.244* | 0.244 | 1.67 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Hexachlorobutadiene | ND | *0.094* | 0.094 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Hexane | 0.387 | *0.284* | 0.284 | 1.36 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Isopropylalcohol | ND | *0.407* | 0.407 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Isopropylbenzene | ND | *0.204* | 0.204 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| m,p-Xylene | 0.834 | *0.230* | 0.230 | 3.62 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Methyl Ethyl Ketone | 2.99 | *0.339* | 0.339 | 8.81 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Methyl tert-butyl ether(MTBE) | ND | *0.278* | 0.278 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Methylene Chloride | ND | *0.864* | 0.864 | ND | *3.00* | 3.00 | 04/06/21 | KCA | 1 | |
| n-Butylbenzene | ND | *0.182* | 0.182 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| o-Xylene | 0.278 | *0.230* | 0.230 | 1.21 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Propylene | 3.12 | *0.581* | 0.581 | 5.37 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| sec-Butylbenzene | ND | *0.182* | 0.182 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| Styrene | 0.599 | *0.235* | 0.235 | 2.55 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Tetrachloroethene | 0.082 | *0.037* | 0.037 | 0.56 | *0.25* | 0.25 | 04/06/21 | KCA | 1 | |
| Tetrahydrofuran | 1.97 | *0.339* | 0.339 | 5.81 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| Toluene | 3.47 | *0.266* | 0.266 | 13.1 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Trans-1,2-Dichloroethene | ND | *0.252* | 0.252 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| trans-1,3-Dichloropropene | ND | *0.221* | 0.221 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Trichloroethene | ND | *0.037* | 0.037 | ND | *0.20* | 0.20 | 04/06/21 | KCA | 1 | |
| Trichlorofluoromethane | ND | *0.178* | 0.178 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Trichlorotrifluoroethane | ND | *0.131* | 0.131 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Vinyl Chloride | ND | *0.078* | 0.078 | ND | *0.20* | 0.20 | 04/06/21 | KCA | 1 | |
| **QA/QC Surrogates/Internals** | | | | | | | | | | |
| % Bromofluorobenzene | 98 | *%* | % | 98 | *%* | % | 04/06/21 | KCA | 1 | |
| % IS-1,4-Difluorobenzene | 100 | *%* | % | 100 | *%* | % | 04/06/21 | KCA | 1 | |
| % IS-Bromochloromethane | 101 | *%* | % | 101 | *%* | % | 04/06/21 | KCA | 1 | |
| % IS-Chlorobenzene-d5 | 102 | *%* | % | 102 | *%* | % | 04/06/21 | KCA | 1 | |

**Ver 1**

Project ID: 05-003-00 (101 WESTMORELAND AVE) Phoenix I.D.: CH92054

Client ID: SS-10 (5')

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

1 = This parameter is not certified by 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 08, 2021**

**Reviewed and Released by: Rashmi Makol, Project Manager**

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

# Analysis Report

April 08, 2021

FOR: Attn: Mr. Fulya Toylular
G.C. Environmental, Inc.
22 Oak Street
Bayshore, NY 11706

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | AIR | Collected by: | FT | 03/30/21 | 13:06 |
| Location Code: | GC-ENV | Received by: | B | 04/05/21 | 14:35 |
| Rush Request: | Standard | Analyzed by: | see "By" below | | |
| P.O.#: | 11935 | | | | |
| Canister Id: | 28503 | | | | |

## Laboratory Data

SDG ID: GCH92051
Phoenix ID: CH92055

Project ID: 05-003-00 (101 WESTMORELAND AVE)
Client ID: OA-1

| Parameter | ppbv Result | ppbv RL | LOD/ MDL | ug/m3 Result | ug/m3 RL | LOD/ MDL | Date/Time | By | Dilution | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Volatiles (TO15)** | | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | *0.146* | 0.146 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | 1 |
| 1,1,1-Trichloroethane | ND | *0.183* | 0.183 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| 1,1,2,2-Tetrachloroethane | ND | *0.146* | 0.146 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| 1,1,2-Trichloroethane | ND | *0.183* | 0.183 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| 1,1-Dichloroethane | ND | *0.247* | 0.247 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| 1,1-Dichloroethene | ND | *0.051* | 0.051 | ND | *0.20* | 0.20 | 04/05/21 | KCA | 1 | |
| 1,2,4-Trichlorobenzene | ND | *0.135* | 0.135 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| 1,2,4-Trimethylbenzene | ND | *0.204* | 0.204 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| 1,2-Dibromoethane(EDB) | ND | *0.130* | 0.130 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| 1,2-Dichlorobenzene | ND | *0.166* | 0.166 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| 1,2-Dichloroethane | ND | *0.247* | 0.247 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| 1,2-dichloropropane | ND | *0.217* | 0.217 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| 1,2-Dichlorotetrafluoroethane | ND | *0.143* | 0.143 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| 1,3,5-Trimethylbenzene | ND | *0.204* | 0.204 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| 1,3-Butadiene | ND | *0.452* | 0.452 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| 1,3-Dichlorobenzene | ND | *0.166* | 0.166 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| 1,4-Dichlorobenzene | ND | *0.166* | 0.166 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| 1,4-Dioxane | ND | *0.278* | 0.278 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| 2-Hexanone(MBK) | ND | *0.244* | 0.244 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | 1 |
| 4-Ethyltoluene | ND | *0.204* | 0.204 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | 1 |
| 4-Isopropyltoluene | ND | *0.182* | 0.182 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | 1 |
| 4-Methyl-2-pentanone(MIBK) | ND | *0.244* | 0.244 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| Acetone | 5.51 | *0.421* | 0.421 | 13.1 | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| Acrylonitrile | ND | *0.461* | 0.461 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| Benzene | ND | *0.313* | 0.313 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| Benzyl chloride | ND | *0.193* | 0.193 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |

Project ID: 05-003-00 (101 WESTMORELAND AVE) Phoenix I.D.: CH92055

Client ID: OA-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 | 04/05/21 | KCA | 1 | |
| Bromoform | ND | *0.097* | 0.097 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| Bromomethane | ND | *0.258* | 0.258 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| Carbon Disulfide | ND | *0.321* | 0.321 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| Carbon Tetrachloride | 0.083 | *0.032* | 0.032 | 0.52 | *0.20* | 0.20 | 04/05/21 | KCA | 1 | |
| Chlorobenzene | ND | *0.217* | 0.217 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| Chloroethane | ND | *0.379* | 0.379 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| Chloroform | ND | *0.205* | 0.205 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| Chloromethane | 0.619 | *0.485* | 0.485 | 1.28 | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| Cis-1,2-Dichloroethene | ND | *0.051* | 0.051 | ND | *0.20* | 0.20 | 04/05/21 | KCA | 1 | |
| cis-1,3-Dichloropropene | ND | *0.221* | 0.221 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| Cyclohexane | ND | *0.291* | 0.291 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| Dibromochloromethane | ND | *0.118* | 0.118 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| Dichlorodifluoromethane | 0.455 | *0.202* | 0.202 | 2.25 | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| Ethanol | 6.90 | *0.531* | 0.531 | 13.0 | *1.00* | 1.00 | 04/05/21 | KCA | 1 | 1 |
| Ethyl acetate | ND | *0.278* | 0.278 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | 1 |
| Ethylbenzene | ND | *0.230* | 0.230 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| Heptane | ND | *0.244* | 0.244 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| Hexachlorobutadiene | ND | *0.094* | 0.094 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| Hexane | ND | *0.284* | 0.284 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| Isopropylalcohol | 0.962 | *0.407* | 0.407 | 2.36 | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| Isopropylbenzene | ND | *0.204* | 0.204 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| m,p-Xylene | 0.451 | *0.230* | 0.230 | 1.96 | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| Methyl Ethyl Ketone | 0.468 | *0.339* | 0.339 | 1.38 | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| Methyl tert-butyl ether(MTBE) | ND | *0.278* | 0.278 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| Methylene Chloride | ND | *0.864* | 0.864 | ND | *3.00* | 3.00 | 04/05/21 | KCA | 1 | |
| n-Butylbenzene | ND | *0.182* | 0.182 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | 1 |
| o-Xylene | ND | *0.230* | 0.230 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| Propylene | ND | *0.581* | 0.581 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | 1 |
| sec-Butylbenzene | ND | *0.182* | 0.182 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | 1 |
| Styrene | ND | *0.235* | 0.235 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| Tetrachloroethene | ND | *0.037* | 0.037 | ND | *0.25* | 0.25 | 04/05/21 | KCA | 1 | |
| Tetrahydrofuran | ND | *0.339* | 0.339 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | 1 |
| Toluene | 2.01 | *0.266* | 0.266 | 7.57 | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| Trans-1,2-Dichloroethene | ND | *0.252* | 0.252 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| trans-1,3-Dichloropropene | ND | *0.221* | 0.221 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| Trichloroethene | ND | *0.037* | 0.037 | ND | *0.20* | 0.20 | 04/05/21 | KCA | 1 | |
| Trichlorofluoromethane | 0.258 | *0.178* | 0.178 | 1.45 | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| Trichlorotrifluoroethane | ND | *0.131* | 0.131 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| Vinyl Chloride | ND | *0.078* | 0.078 | ND | *0.20* | 0.20 | 04/05/21 | KCA | 1 | |
| **QA/QC Surrogates/Internals** | | | | | | | | | | |
| % Bromofluorobenzene | 102 | % | % | 102 | % | % | 04/05/21 | KCA | 1 | |
| % IS-1,4-Difluorobenzene | 74 | % | % | 74 | % | % | 04/05/21 | KCA | 1 | |
| % IS-Bromochloromethane | 72 | % | % | 72 | % | % | 04/05/21 | KCA | 1 | |
| % IS-Chlorobenzene-d5 | 72 | % | % | 72 | % | % | 04/05/21 | KCA | 1 | |

Project ID: 05-003-00 (101 WESTMORELAND AVE) Phoenix I.D.: CH92055

Client ID: OA-1

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

1 = This parameter is not certified by 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 08, 2021**

**Reviewed and Released by: Rashmi Makol, Project Manager**

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

# Analysis Report

April 08, 2021

FOR: Attn: Mr. Fulya Toylular
G.C. Environmental, Inc.
22 Oak Street
Bayshore, NY 11706

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | AIR | Collected by: | FT | 03/30/21 | 13:42 |
| Location Code: | GC-ENV | Received by: | B | 04/05/21 | 14:35 |
| Rush Request: | Standard | Analyzed by: | see "By" below | | |
| P.O.#: | 11935 | | | | |
| Canister Id: | 28582 | | | | |

## Laboratory Data

SDG ID: GCH92051
Phoenix ID: CH92056

Project ID: 05-003-00 (101 WESTMORELAND AVE)
Client ID: SS-6

| Parameter | ppbv Result | ppbv RL | LOD/ MDL | ug/m3 Result | ug/m3 RL | LOD/ MDL | Date/Time | By | Dilution | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Volatiles (TO15)** | | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | *0.146* | 0.146 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| 1,1,1-Trichloroethane | 10.9 | *0.183* | 0.183 | 59.4 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,1,2,2-Tetrachloroethane | ND | *0.146* | 0.146 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,1,2-Trichloroethane | ND | *0.183* | 0.183 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,1-Dichloroethane | ND | *0.247* | 0.247 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,1-Dichloroethene | ND | *0.051* | 0.051 | ND | *0.20* | 0.20 | 04/06/21 | KCA | 1 | |
| 1,2,4-Trichlorobenzene | ND | *0.135* | 0.135 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2,4-Trimethylbenzene | 0.230 | *0.204* | 0.204 | 1.13 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2-Dibromoethane(EDB) | ND | *0.130* | 0.130 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2-Dichlorobenzene | ND | *0.166* | 0.166 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2-Dichloroethane | ND | *0.247* | 0.247 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2-dichloropropane | ND | *0.217* | 0.217 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2-Dichlorotetrafluoroethane | ND | *0.143* | 0.143 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,3,5-Trimethylbenzene | ND | *0.204* | 0.204 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,3-Butadiene | ND | *0.452* | 0.452 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,3-Dichlorobenzene | ND | *0.166* | 0.166 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,4-Dichlorobenzene | ND | *0.166* | 0.166 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,4-Dioxane | 1.46 | *0.278* | 0.278 | 5.26 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 2-Hexanone(MBK) | ND | *0.244* | 0.244 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| 4-Ethyltoluene | 0.209 | *0.204* | 0.204 | 1.03 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| 4-Isopropyltoluene | ND | *0.182* | 0.182 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| 4-Methyl-2-pentanone(MIBK) | ND | *0.244* | 0.244 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Acetone | 95.2 | *2.11* | 2.11 | 226 | *5.01* | 5.01 | 04/05/21 | KCA | 5 | |
| Acrylonitrile | ND | *0.461* | 0.461 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Benzene | ND | *0.313* | 0.313 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Benzyl chloride | ND | *0.193* | 0.193 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |

Project ID: 05-003-00 (101 WESTMORELAND AVE) Phoenix I.D.: CH92056

Client ID: SS-6

| Parameter | ppbv Result | ppbv RL | LOD/ MDL | ug/m3 Result | ug/m3 RL | LOD/ MDL | Date/Time | By | Dilution | |
|---|---|---|---|---|---|---|---|---|---|---|
| Bromodichloromethane | ND | *0.149* | 0.149 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Bromoform | ND | *0.097* | 0.097 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Bromomethane | ND | *0.258* | 0.258 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Carbon Disulfide | ND | *0.321* | 0.321 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Carbon Tetrachloride | 0.079 | *0.032* | 0.032 | 0.50 | *0.20* | 0.20 | 04/06/21 | KCA | 1 | |
| Chlorobenzene | ND | *0.217* | 0.217 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Chloroethane | ND | *0.379* | 0.379 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Chloroform | ND | *0.205* | 0.205 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Chloromethane | ND | *0.485* | 0.485 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Cis-1,2-Dichloroethene | ND | *0.051* | 0.051 | ND | *0.20* | 0.20 | 04/06/21 | KCA | 1 | |
| cis-1,3-Dichloropropene | ND | *0.221* | 0.221 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Cyclohexane | 0.449 | *0.291* | 0.291 | 1.54 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Dibromochloromethane | ND | *0.118* | 0.118 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Dichlorodifluoromethane | 0.396 | *0.202* | 0.202 | 1.96 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Ethanol | 393 | E *2.66* | 2.66 | 740 | *5.01* | 5.01 | 04/05/21 | KCA | 5 | 1 |
| Ethyl acetate | ND | *0.278* | 0.278 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| Ethylbenzene | 0.566 | *0.230* | 0.230 | 2.46 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Heptane | 0.398 | *0.244* | 0.244 | 1.63 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Hexachlorobutadiene | ND | *0.094* | 0.094 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Hexane | 0.515 | *0.284* | 0.284 | 1.81 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Isopropylalcohol | 38.5 | *0.407* | 0.407 | 94.6 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Isopropylbenzene | ND | *0.204* | 0.204 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| m,p-Xylene | 0.816 | *0.230* | 0.230 | 3.54 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Methyl Ethyl Ketone | 4.04 | *0.339* | 0.339 | 11.9 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Methyl tert-butyl ether(MTBE) | ND | *0.278* | 0.278 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Methylene Chloride | ND | *0.864* | 0.864 | ND | *3.00* | 3.00 | 04/06/21 | KCA | 1 | |
| n-Butylbenzene | ND | *0.182* | 0.182 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| o-Xylene | 0.349 | *0.230* | 0.230 | 1.51 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Propylene | 0.715 | *0.581* | 0.581 | 1.23 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| sec-Butylbenzene | ND | *0.182* | 0.182 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| Styrene | 0.257 | *0.235* | 0.235 | 1.09 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Tetrachloroethene | 16.3 | *0.037* | 0.037 | 110 | *0.25* | 0.25 | 04/06/21 | KCA | 1 | |
| Tetrahydrofuran | ND | *0.339* | 0.339 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| Toluene | 3.95 | *0.266* | 0.266 | 14.9 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Trans-1,2-Dichloroethene | ND | *0.252* | 0.252 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| trans-1,3-Dichloropropene | ND | *0.221* | 0.221 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Trichloroethene | ND | *0.037* | 0.037 | ND | *0.20* | 0.20 | 04/06/21 | KCA | 1 | |
| Trichlorofluoromethane | 0.229 | *0.178* | 0.178 | 1.29 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Trichlorotrifluoroethane | ND | *0.131* | 0.131 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Vinyl Chloride | ND | *0.078* | 0.078 | ND | *0.20* | 0.20 | 04/06/21 | KCA | 1 | |
| **QA/QC Surrogates/Internals** | | | | | | | | | | |
| % Bromofluorobenzene | 100 | % | % | 100 | % | % | 04/06/21 | KCA | 1 | |
| % IS-1,4-Difluorobenzene | 102 | % | % | 102 | % | % | 04/06/21 | KCA | 1 | |
| % IS-Bromochloromethane | 100 | % | % | 100 | % | % | 04/06/21 | KCA | 1 | |
| % IS-Chlorobenzene-d5 | 104 | % | % | 104 | % | % | 04/06/21 | KCA | 1 | |
| % Bromofluorobenzene (5x) | 101 | % | % | 101 | % | % | 04/05/21 | KCA | 5 | |
| % IS-1,4-Difluorobenzene (5x) | 72 | % | % | 72 | % | % | 04/05/21 | KCA | 5 | |
| % IS-Bromochloromethane (5x) | 71 | % | % | 71 | % | % | 04/05/21 | KCA | 5 | |
| % IS-Chlorobenzene-d5 (5x) | 71 | % | % | 71 | % | % | 04/05/21 | KCA | 5 | |

Project ID: 05-003-00 (101 WESTMORELAND AVE) Phoenix I.D.: CH92056

Client ID: SS-6

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

1 = This parameter is not certified by 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:

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 08, 2021**

**Reviewed and Released by: Rashmi Makol, Project Manager**

PHOENIX

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

# Analysis Report

April 08, 2021

FOR: Attn: Mr. Fulya Toylular
G.C. Environmental, Inc.
22 Oak Street
Bayshore, NY 11706

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | AIR | Collected by: | FT | 03/30/21 | 13:15 |
| Location Code: | GC-ENV | Received by: | B | 04/05/21 | 14:35 |
| Rush Request: | Standard | Analyzed by: | see "By" below | | |
| P.O.#: | 11935 | | | | |
| Canister Id: | 479 | | | | |

## Laboratory Data

SDG ID: GCH92051
Phoenix ID: CH92057

Project ID: 05-003-00 (101 WESTMORELAND AVE)
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 | *0.146* | 0.146 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| 1,1,1-Trichloroethane | 26.6 | *0.183* | 0.183 | 145 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,1,2,2-Tetrachloroethane | ND | *0.146* | 0.146 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,1,2-Trichloroethane | ND | *0.183* | 0.183 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,1-Dichloroethane | ND | *0.247* | 0.247 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,1-Dichloroethene | ND | *0.051* | 0.051 | ND | *0.20* | 0.20 | 04/06/21 | KCA | 1 | |
| 1,2,4-Trichlorobenzene | ND | *0.135* | 0.135 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2,4-Trimethylbenzene | 0.232 | *0.204* | 0.204 | 1.14 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2-Dibromoethane(EDB) | ND | *0.130* | 0.130 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2-Dichlorobenzene | ND | *0.166* | 0.166 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2-Dichloroethane | ND | *0.247* | 0.247 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2-dichloropropane | ND | *0.217* | 0.217 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2-Dichlorotetrafluoroethane | ND | *0.143* | 0.143 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,3,5-Trimethylbenzene | ND | *0.204* | 0.204 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,3-Butadiene | ND | *0.452* | 0.452 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,3-Dichlorobenzene | ND | *0.166* | 0.166 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,4-Dichlorobenzene | ND | *0.166* | 0.166 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,4-Dioxane | ND | *0.278* | 0.278 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 2-Hexanone(MBK) | ND | *0.244* | 0.244 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| 4-Ethyltoluene | 0.264 | *0.204* | 0.204 | 1.30 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| 4-Isopropyltoluene | ND | *0.182* | 0.182 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| 4-Methyl-2-pentanone(MIBK) | ND | *0.244* | 0.244 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Acetone | 30.3 | *0.421* | 0.421 | 71.9 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Acrylonitrile | ND | *0.461* | 0.461 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Benzene | 0.407 | *0.313* | 0.313 | 1.30 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Benzyl chloride | ND | *0.193* | 0.193 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |

Project ID: 05-003-00 (101 WESTMORELAND AVE) Phoenix I.D.: CH92057

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 | *0.149* | 0.149 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Bromoform | ND | *0.097* | 0.097 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Bromomethane | ND | *0.258* | 0.258 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Carbon Disulfide | 3.58 | *0.321* | 0.321 | 11.1 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Carbon Tetrachloride | 0.055 | *0.032* | 0.032 | 0.35 | *0.20* | 0.20 | 04/06/21 | KCA | 1 | |
| Chlorobenzene | ND | *0.217* | 0.217 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Chloroethane | ND | *0.379* | 0.379 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Chloroform | ND | *0.205* | 0.205 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Chloromethane | ND | *0.485* | 0.485 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Cis-1,2-Dichloroethene | ND | *0.051* | 0.051 | ND | *0.20* | 0.20 | 04/06/21 | KCA | 1 | |
| cis-1,3-Dichloropropene | ND | *0.221* | 0.221 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Cyclohexane | 3.32 | *0.291* | 0.291 | 11.4 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Dibromochloromethane | ND | *0.118* | 0.118 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Dichlorodifluoromethane | 0.443 | *0.202* | 0.202 | 2.19 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Ethanol | 176 | *2.66* | 2.66 | 331 | *5.01* | 5.01 | 04/05/21 | KCA | 5 | 1 |
| Ethyl acetate | ND | *0.278* | 0.278 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| Ethylbenzene | 0.519 | *0.230* | 0.230 | 2.25 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Heptane | 6.28 | *0.244* | 0.244 | 25.7 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Hexachlorobutadiene | ND | *0.094* | 0.094 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Hexane | 3.65 | *0.284* | 0.284 | 12.9 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Isopropylalcohol | 11.0 | *0.407* | 0.407 | 27.0 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Isopropylbenzene | ND | *0.204* | 0.204 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| m,p-Xylene | 1.11 | *0.230* | 0.230 | 4.82 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Methyl Ethyl Ketone | 0.963 | *0.339* | 0.339 | 2.84 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Methyl tert-butyl ether(MTBE) | ND | *0.278* | 0.278 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Methylene Chloride | ND | *0.864* | 0.864 | ND | *3.00* | 3.00 | 04/06/21 | KCA | 1 | |
| n-Butylbenzene | ND | *0.182* | 0.182 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| o-Xylene | 0.458 | *0.230* | 0.230 | 1.99 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Propylene | ND | *0.581* | 0.581 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| sec-Butylbenzene | ND | *0.182* | 0.182 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| Styrene | 0.285 | *0.235* | 0.235 | 1.21 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Tetrachloroethene | 54.3 | *0.184* | 0.184 | 368 | *1.25* | 1.25 | 04/05/21 | KCA | 5 | |
| Tetrahydrofuran | ND | *0.339* | 0.339 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| Toluene | 3.36 | *0.266* | 0.266 | 12.7 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Trans-1,2-Dichloroethene | ND | *0.252* | 0.252 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| trans-1,3-Dichloropropene | ND | *0.221* | 0.221 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Trichloroethene | 0.130 | *0.037* | 0.037 | 0.70 | *0.20* | 0.20 | 04/06/21 | KCA | 1 | |
| Trichlorofluoromethane | 0.195 | *0.178* | 0.178 | 1.09 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Trichlorotrifluoroethane | ND | *0.131* | 0.131 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Vinyl Chloride | ND | *0.078* | 0.078 | ND | *0.20* | 0.20 | 04/06/21 | KCA | 1 | |
| **QA/QC Surrogates/Internals** | | | | | | | | | | |
| % Bromofluorobenzene | 100 | % | % | 100 | % | % | 04/06/21 | KCA | 1 | |
| % IS-1,4-Difluorobenzene | 106 | % | % | 106 | % | % | 04/06/21 | KCA | 1 | |
| % IS-Bromochloromethane | 105 | % | % | 105 | % | % | 04/06/21 | KCA | 1 | |
| % IS-Chlorobenzene-d5 | 111 | % | % | 111 | % | % | 04/06/21 | KCA | 1 | |
| % Bromofluorobenzene (5x) | 100 | % | % | 100 | % | % | 04/05/21 | KCA | 5 | |
| % IS-1,4-Difluorobenzene (5x) | 72 | % | % | 72 | % | % | 04/05/21 | KCA | 5 | |
| % IS-Bromochloromethane (5x) | 71 | % | % | 71 | % | % | 04/05/21 | KCA | 5 | |
| % IS-Chlorobenzene-d5 (5x) | 72 | % | % | 72 | % | % | 04/05/21 | KCA | 5 | |

**Ver 1**

Project ID: 05-003-00 (101 WESTMORELAND AVE) Phoenix I.D.: CH92057

Client ID: SS-4

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

1 = This parameter is not certified by 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 08, 2021**

**Reviewed and Released by: Rashmi Makol, Project Manager**

PHOENIX

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

# Analysis Report

April 08, 2021

FOR: Attn: Mr. Fulya Toylular
G.C. Environmental, Inc.
22 Oak Street
Bayshore, NY 11706

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | AIR | Collected by: | FT | 04/02/21 | 13:40 |
| Location Code: | GC-ENV | Received by: | B | 04/05/21 | 14:35 |
| Rush Request: | Standard | Analyzed by: | see "By" below | | |
| P.O.#: | 11935 | | | | |
| Canister Id: | 484 | | | | |

## Laboratory Data

SDG ID: GCH92051
Phoenix ID: CH92058

Project ID: 05-003-00 (101 WESTMORELAND AVE)
Client ID: SS-11 (5')

| Parameter | ppbv Result | ppbv RL | LOD/ MDL | ug/m3 Result | ug/m3 RL | LOD/ MDL | Date/Time | By | Dilution | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Volatiles (TO15)** | | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | *0.146* | 0.146 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| 1,1,1-Trichloroethane | 29.5 | *0.183* | 0.183 | 161 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,1,2,2-Tetrachloroethane | ND | *0.146* | 0.146 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,1,2-Trichloroethane | ND | *0.183* | 0.183 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,1-Dichloroethane | ND | *0.247* | 0.247 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,1-Dichloroethene | 0.452 | *0.051* | 0.051 | 1.79 | *0.20* | 0.20 | 04/06/21 | KCA | 1 | |
| 1,2,4-Trichlorobenzene | ND | *0.135* | 0.135 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2,4-Trimethylbenzene | ND | *0.204* | 0.204 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2-Dibromoethane(EDB) | ND | *0.130* | 0.130 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2-Dichlorobenzene | ND | *0.166* | 0.166 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2-Dichloroethane | ND | *0.247* | 0.247 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2-dichloropropane | ND | *0.217* | 0.217 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2-Dichlorotetrafluoroethane | ND | *0.143* | 0.143 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,3,5-Trimethylbenzene | ND | *0.204* | 0.204 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,3-Butadiene | 4.63 | *0.452* | 0.452 | 10.2 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,3-Dichlorobenzene | ND | *0.166* | 0.166 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,4-Dichlorobenzene | ND | *0.166* | 0.166 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,4-Dioxane | ND | *0.278* | 0.278 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 2-Hexanone(MBK) | ND | *0.244* | 0.244 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| 4-Ethyltoluene | ND | *0.204* | 0.204 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| 4-Isopropyltoluene | ND | *0.182* | 0.182 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| 4-Methyl-2-pentanone(MIBK) | ND | *0.244* | 0.244 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Acetone | 29.5 | *0.421* | 0.421 | 70.0 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Acrylonitrile | ND | *0.461* | 0.461 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Benzene | 1.46 | *0.313* | 0.313 | 4.66 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Benzyl chloride | ND | *0.193* | 0.193 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |

Project ID: 05-003-00 (101 WESTMORELAND AVE) Phoenix I.D.: CH92058

Client ID: SS-11 (5')

| Parameter | ppbv Result | ppbv RL | LOD/ MDL | ug/m3 Result | ug/m3 RL | LOD/ MDL | Date/Time | By | Dilution | |
|---|---|---|---|---|---|---|---|---|---|---|
| Bromodichloromethane | ND | *0.149* | 0.149 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Bromoform | ND | *0.097* | 0.097 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Bromomethane | ND | *0.258* | 0.258 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Carbon Disulfide | 0.712 | *0.321* | 0.321 | 2.22 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Carbon Tetrachloride | 0.060 | *0.032* | 0.032 | 0.38 | *0.20* | 0.20 | 04/06/21 | KCA | 1 | |
| Chlorobenzene | ND | *0.217* | 0.217 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Chloroethane | ND | *0.379* | 0.379 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Chloroform | 1.02 | *0.205* | 0.205 | 4.98 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Chloromethane | ND | *0.485* | 0.485 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Cis-1,2-Dichloroethene | ND | *0.051* | 0.051 | ND | *0.20* | 0.20 | 04/06/21 | KCA | 1 | |
| cis-1,3-Dichloropropene | ND | *0.221* | 0.221 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Cyclohexane | 0.850 | *0.291* | 0.291 | 2.92 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Dibromochloromethane | ND | *0.118* | 0.118 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Dichlorodifluoromethane | 0.381 | *0.202* | 0.202 | 1.88 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Ethanol | 5.83 | *0.531* | 0.531 | 11.0 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| Ethyl acetate | ND | *0.278* | 0.278 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| Ethylbenzene | 0.632 | *0.230* | 0.230 | 2.74 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Heptane | 1.30 | *0.244* | 0.244 | 5.32 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Hexachlorobutadiene | ND | *0.094* | 0.094 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Hexane | 1.51 | *0.284* | 0.284 | 5.32 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Isopropylalcohol | ND | *0.407* | 0.407 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Isopropylbenzene | ND | *0.204* | 0.204 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| m,p-Xylene | 0.730 | *0.230* | 0.230 | 3.17 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Methyl Ethyl Ketone | 5.86 | *0.339* | 0.339 | 17.3 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Methyl tert-butyl ether(MTBE) | ND | *0.278* | 0.278 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Methylene Chloride | ND | *0.864* | 0.864 | ND | *3.00* | 3.00 | 04/06/21 | KCA | 1 | |
| n-Butylbenzene | ND | *0.182* | 0.182 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| o-Xylene | 0.242 | *0.230* | 0.230 | 1.05 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Propylene | 56.3 | *2.91* | 2.91 | 96.8 | *5.01* | 5.01 | 04/06/21 | KCA | 5 | 1 |
| sec-Butylbenzene | ND | *0.182* | 0.182 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| Styrene | 0.643 | *0.235* | 0.235 | 2.74 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Tetrachloroethene | 7.60 | *0.037* | 0.037 | 51.5 | *0.25* | 0.25 | 04/06/21 | KCA | 1 | |
| Tetrahydrofuran | ND | *0.339* | 0.339 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| Toluene | 3.49 | *0.266* | 0.266 | 13.1 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Trans-1,2-Dichloroethene | ND | *0.252* | 0.252 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| trans-1,3-Dichloropropene | ND | *0.221* | 0.221 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Trichloroethene | 0.100 | *0.037* | 0.037 | 0.54 | *0.20* | 0.20 | 04/06/21 | KCA | 1 | |
| Trichlorofluoromethane | ND | *0.178* | 0.178 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Trichlorotrifluoroethane | 0.461 | *0.131* | 0.131 | 3.53 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Vinyl Chloride | ND | *0.078* | 0.078 | ND | *0.20* | 0.20 | 04/06/21 | KCA | 1 | |
| **QA/QC Surrogates/Internals** | | | | | | | | | | |
| % Bromofluorobenzene | 98 | % | % | 98 | % | % | 04/06/21 | KCA | 1 | |
| % IS-1,4-Difluorobenzene | 111 | % | % | 111 | % | % | 04/06/21 | KCA | 1 | |
| % IS-Bromochloromethane | 111 | % | % | 111 | % | % | 04/06/21 | KCA | 1 | |
| % IS-Chlorobenzene-d5 | 114 | % | % | 114 | % | % | 04/06/21 | KCA | 1 | |
| % Bromofluorobenzene (5x) | 101 | % | % | 101 | % | % | 04/06/21 | KCA | 5 | |
| % IS-1,4-Difluorobenzene (5x) | 71 | % | % | 71 | % | % | 04/06/21 | KCA | 5 | |
| % IS-Bromochloromethane (5x) | 70 | % | % | 70 | % | % | 04/06/21 | KCA | 5 | |
| % IS-Chlorobenzene-d5 (5x) | 69 | % | % | 69 | % | % | 04/06/21 | KCA | 5 | |

**Ver 1**

Project ID: 05-003-00 (101 WESTMORELAND AVE) Phoenix I.D.: CH92058

Client ID: SS-11 (5')

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

1 = This parameter is not certified by 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 08, 2021**

**Reviewed and Released by: Rashmi Makol, Project Manager**

PHOENIX

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

# Analysis Report

April 08, 2021

FOR: Attn: Mr. Fulya Toylular
G.C. Environmental, Inc.
22 Oak Street
Bayshore, NY 11706

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | AIR | Collected by: | FT | 04/02/21 | 12:15 |
| Location Code: | GC-ENV | Received by: | B | 04/05/21 | 14:35 |
| Rush Request: | Standard | Analyzed by: | see "By" below | | |
| P.O.#: | 11935 | | | | |
| Canister Id: | 470 | | | | |

## Laboratory Data

SDG ID: GCH92051
Phoenix ID: CH92059

Project ID: 05-003-00 (101 WESTMORELAND AVE)
Client ID: SS-9 (5')

| Parameter | ppbv Result | ppbv RL | LOD/ MDL | ug/m3 Result | ug/m3 RL | LOD/ MDL | Date/Time | By | Dilution | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Volatiles (TO15)** | | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | *0.146* | 0.146 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| 1,1,1-Trichloroethane | ND | *0.183* | 0.183 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,1,2,2-Tetrachloroethane | ND | *0.146* | 0.146 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,1,2-Trichloroethane | ND | *0.183* | 0.183 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,1-Dichloroethane | ND | *0.247* | 0.247 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,1-Dichloroethene | ND | *0.051* | 0.051 | ND | *0.20* | 0.20 | 04/06/21 | KCA | 1 | |
| 1,2,4-Trichlorobenzene | ND | *0.135* | 0.135 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2,4-Trimethylbenzene | ND | *0.204* | 0.204 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2-Dibromoethane(EDB) | ND | *0.130* | 0.130 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2-Dichlorobenzene | ND | *0.166* | 0.166 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2-Dichloroethane | ND | *0.247* | 0.247 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2-dichloropropane | ND | *0.217* | 0.217 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2-Dichlorotetrafluoroethane | ND | *0.143* | 0.143 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,3,5-Trimethylbenzene | ND | *0.204* | 0.204 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,3-Butadiene | ND | *0.452* | 0.452 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,3-Dichlorobenzene | ND | *0.166* | 0.166 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,4-Dichlorobenzene | ND | *0.166* | 0.166 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,4-Dioxane | ND | *0.278* | 0.278 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 2-Hexanone(MBK) | ND | *0.244* | 0.244 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| 4-Ethyltoluene | 0.212 | *0.204* | 0.204 | 1.04 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| 4-Isopropyltoluene | ND | *0.182* | 0.182 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| 4-Methyl-2-pentanone(MIBK) | ND | *0.244* | 0.244 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Acetone | 14.5 | *0.421* | 0.421 | 34.4 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Acrylonitrile | ND | *0.461* | 0.461 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Benzene | ND | *0.313* | 0.313 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Benzyl chloride | ND | *0.193* | 0.193 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |

Project ID: 05-003-00 (101 WESTMORELAND AVE) Phoenix I.D.: CH92059

Client ID: SS-9 (5')

| Parameter | ppbv Result | ppbv RL | LOD/ MDL | ug/m3 Result | ug/m3 RL | LOD/ MDL | Date/Time | By | Dilution | |
|---|---|---|---|---|---|---|---|---|---|---|
| Bromodichloromethane | ND | *0.149* | 0.149 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Bromoform | ND | *0.097* | 0.097 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Bromomethane | ND | *0.258* | 0.258 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Carbon Disulfide | ND | *0.321* | 0.321 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Carbon Tetrachloride | 0.069 | *0.032* | 0.032 | 0.43 | *0.20* | 0.20 | 04/06/21 | KCA | 1 | |
| Chlorobenzene | ND | *0.217* | 0.217 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Chloroethane | ND | *0.379* | 0.379 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Chloroform | ND | *0.205* | 0.205 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Chloromethane | 0.539 | *0.485* | 0.485 | 1.11 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Cis-1,2-Dichloroethene | ND | *0.051* | 0.051 | ND | *0.20* | 0.20 | 04/06/21 | KCA | 1 | |
| cis-1,3-Dichloropropene | ND | *0.221* | 0.221 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Cyclohexane | ND | *0.291* | 0.291 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Dibromochloromethane | ND | *0.118* | 0.118 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Dichlorodifluoromethane | 0.274 | *0.202* | 0.202 | 1.35 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Ethanol | 9.71 | *0.531* | 0.531 | 18.3 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| Ethyl acetate | ND | *0.278* | 0.278 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| Ethylbenzene | 0.795 | *0.230* | 0.230 | 3.45 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Heptane | 0.336 | *0.244* | 0.244 | 1.38 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Hexachlorobutadiene | ND | *0.094* | 0.094 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Hexane | ND | *0.284* | 0.284 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Isopropylalcohol | 1.11 | *0.407* | 0.407 | 2.73 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Isopropylbenzene | ND | *0.204* | 0.204 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| m,p-Xylene | 1.43 | *0.230* | 0.230 | 6.21 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Methyl Ethyl Ketone | 2.80 | *0.339* | 0.339 | 8.25 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Methyl tert-butyl ether(MTBE) | ND | *0.278* | 0.278 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Methylene Chloride | ND | *0.864* | 0.864 | ND | *3.00* | 3.00 | 04/06/21 | KCA | 1 | |
| n-Butylbenzene | ND | *0.182* | 0.182 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| o-Xylene | 0.483 | *0.230* | 0.230 | 2.10 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Propylene | ND | *0.581* | 0.581 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| sec-Butylbenzene | ND | *0.182* | 0.182 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| Styrene | 0.970 | *0.235* | 0.235 | 4.13 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Tetrachloroethene | 0.475 | *0.037* | 0.037 | 3.22 | *0.25* | 0.25 | 04/06/21 | KCA | 1 | |
| Tetrahydrofuran | 2.58 | *0.339* | 0.339 | 7.60 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| Toluene | 3.96 | *0.266* | 0.266 | 14.9 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Trans-1,2-Dichloroethene | ND | *0.252* | 0.252 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| trans-1,3-Dichloropropene | ND | *0.221* | 0.221 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Trichloroethene | ND | *0.037* | 0.037 | ND | *0.20* | 0.20 | 04/06/21 | KCA | 1 | |
| Trichlorofluoromethane | 0.196 | *0.178* | 0.178 | 1.10 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Trichlorotrifluoroethane | ND | *0.131* | 0.131 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Vinyl Chloride | ND | *0.078* | 0.078 | ND | *0.20* | 0.20 | 04/06/21 | KCA | 1 | |
| **QA/QC Surrogates/Internals** | | | | | | | | | | |
| % Bromofluorobenzene | 100 | % | % | 100 | % | % | 04/06/21 | KCA | 1 | |
| % IS-1,4-Difluorobenzene | 108 | % | % | 108 | % | % | 04/06/21 | KCA | 1 | |
| % IS-Bromochloromethane | 109 | % | % | 109 | % | % | 04/06/21 | KCA | 1 | |
| % IS-Chlorobenzene-d5 | 111 | % | % | 111 | % | % | 04/06/21 | KCA | 1 | |

**Ver 1**

Project ID: 05-003-00 (101 WESTMORELAND AVE) Phoenix I.D.: CH92059

Client ID: SS-9 (5')

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

1 = This parameter is not certified by 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 08, 2021**

**Reviewed and Released by: Rashmi Makol, Project Manager**

PHOENIX

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

# Analysis Report

April 08, 2021

FOR: Attn: Mr. Fulya Toylular
G.C. Environmental, Inc.
22 Oak Street
Bayshore, NY 11706

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | AIR | Collected by: | FT | 03/30/21 | 12:35 |
| Location Code: | GC-ENV | Received by: | B | 04/05/21 | 14:35 |
| Rush Request: | Standard | Analyzed by: | see "By" below | | |
| P.O.#: | 11935 | | | | |
| Canister Id: | 18111 | | | | |

## Laboratory Data

SDG ID: GCH92051
Phoenix ID: CH92060

Project ID: 05-003-00 (101 WESTMORELAND AVE)
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 | *0.146* | 0.146 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| 1,1,1-Trichloroethane | 3.15 | *0.183* | 0.183 | 17.2 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,1,2,2-Tetrachloroethane | ND | *0.146* | 0.146 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,1,2-Trichloroethane | ND | *0.183* | 0.183 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,1-Dichloroethane | ND | *0.247* | 0.247 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,1-Dichloroethene | ND | *0.051* | 0.051 | ND | *0.20* | 0.20 | 04/06/21 | KCA | 1 | |
| 1,2,4-Trichlorobenzene | ND | *0.135* | 0.135 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2,4-Trimethylbenzene | ND | *0.204* | 0.204 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2-Dibromoethane(EDB) | ND | *0.130* | 0.130 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2-Dichlorobenzene | ND | *0.166* | 0.166 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2-Dichloroethane | ND | *0.247* | 0.247 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2-dichloropropane | ND | *0.217* | 0.217 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2-Dichlorotetrafluoroethane | ND | *0.143* | 0.143 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,3,5-Trimethylbenzene | ND | *0.204* | 0.204 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,3-Butadiene | ND | *0.452* | 0.452 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,3-Dichlorobenzene | ND | *0.166* | 0.166 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,4-Dichlorobenzene | ND | *0.166* | 0.166 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,4-Dioxane | ND | *0.278* | 0.278 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 2-Hexanone(MBK) | ND | *0.244* | 0.244 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| 4-Ethyltoluene | ND | *0.204* | 0.204 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| 4-Isopropyltoluene | ND | *0.182* | 0.182 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| 4-Methyl-2-pentanone(MIBK) | ND | *0.244* | 0.244 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Acetone | 5.11 | *0.421* | 0.421 | 12.1 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Acrylonitrile | ND | *0.461* | 0.461 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Benzene | 0.336 | *0.313* | 0.313 | 1.07 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Benzyl chloride | ND | *0.193* | 0.193 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |

Project ID: 05-003-00 (101 WESTMORELAND AVE) Phoenix I.D.: CH92060

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 | *0.149* | 0.149 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Bromoform | ND | *0.097* | 0.097 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Bromomethane | ND | *0.258* | 0.258 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Carbon Disulfide | 1.83 | *0.321* | 0.321 | 5.69 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Carbon Tetrachloride | 0.043 | *0.032* | 0.032 | 0.27 | *0.20* | 0.20 | 04/06/21 | KCA | 1 | |
| Chlorobenzene | ND | *0.217* | 0.217 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Chloroethane | ND | *0.379* | 0.379 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Chloroform | ND | *0.205* | 0.205 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Chloromethane | ND | *0.485* | 0.485 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Cis-1,2-Dichloroethene | 0.055 | *0.051* | 0.051 | 0.22 | *0.20* | 0.20 | 04/06/21 | KCA | 1 | |
| cis-1,3-Dichloropropene | ND | *0.221* | 0.221 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Cyclohexane | ND | *0.291* | 0.291 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Dibromochloromethane | ND | *0.118* | 0.118 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Dichlorodifluoromethane | ND | *0.202* | 0.202 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Ethanol | 5.38 | *0.531* | 0.531 | 10.1 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| Ethyl acetate | ND | *0.278* | 0.278 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| Ethylbenzene | ND | *0.230* | 0.230 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Heptane | ND | *0.244* | 0.244 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Hexachlorobutadiene | ND | *0.094* | 0.094 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Hexane | 0.333 | *0.284* | 0.284 | 1.17 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Isopropylalcohol | 3.88 | *0.407* | 0.407 | 9.5 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Isopropylbenzene | ND | *0.204* | 0.204 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| m,p-Xylene | 0.383 | *0.230* | 0.230 | 1.66 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Methyl Ethyl Ketone | 0.358 | *0.339* | 0.339 | 1.06 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Methyl tert-butyl ether(MTBE) | ND | *0.278* | 0.278 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Methylene Chloride | ND | *0.864* | 0.864 | ND | *3.00* | 3.00 | 04/06/21 | KCA | 1 | |
| n-Butylbenzene | ND | *0.182* | 0.182 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| o-Xylene | ND | *0.230* | 0.230 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Propylene | ND | *0.581* | 0.581 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| sec-Butylbenzene | ND | *0.182* | 0.182 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| Styrene | 0.336 | *0.235* | 0.235 | 1.43 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Tetrachloroethene | 4.72 | *0.037* | 0.037 | 32.0 | *0.25* | 0.25 | 04/06/21 | KCA | 1 | |
| Tetrahydrofuran | ND | *0.339* | 0.339 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| Toluene | 1.34 | *0.266* | 0.266 | 5.05 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Trans-1,2-Dichloroethene | ND | *0.252* | 0.252 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| trans-1,3-Dichloropropene | ND | *0.221* | 0.221 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Trichloroethene | 0.067 | *0.037* | 0.037 | 0.36 | *0.20* | 0.20 | 04/06/21 | KCA | 1 | |
| Trichlorofluoromethane | ND | *0.178* | 0.178 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Trichlorotrifluoroethane | ND | *0.131* | 0.131 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Vinyl Chloride | ND | *0.078* | 0.078 | ND | *0.20* | 0.20 | 04/06/21 | KCA | 1 | |
| **QA/QC Surrogates/Internals** | | | | | | | | | | |
| % Bromofluorobenzene | 97 | % | % | 97 | % | % | 04/06/21 | KCA | 1 | |
| % IS-1,4-Difluorobenzene | 110 | % | % | 110 | % | % | 04/06/21 | KCA | 1 | |
| % IS-Bromochloromethane | 111 | % | % | 111 | % | % | 04/06/21 | KCA | 1 | |
| % IS-Chlorobenzene-d5 | 112 | % | % | 112 | % | % | 04/06/21 | KCA | 1 | |

**Ver 1**

Project ID: 05-003-00 (101 WESTMORELAND AVE) Phoenix I.D.: CH92060

Client ID: SS-1

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

1 = This parameter is not certified by 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 08, 2021**

**Reviewed and Released by: Rashmi Makol, Project Manager**

PHOENIX

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

# Analysis Report

April 08, 2021

FOR: Attn: Mr. Fulya Toylular
G.C. Environmental, Inc.
22 Oak Street
Bayshore, NY 11706

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | AIR | Collected by: | FT | 03/30/21 | 15:50 |
| Location Code: | GC-ENV | Received by: | B | 04/05/21 | 14:35 |
| Rush Request: | Standard | Analyzed by: | see "By" below | | |
| P.O.#: | 11935 | | | | |
| Canister Id: | 19732 | | | | |

## Laboratory Data

SDG ID: GCH92051
Phoenix ID: CH92061

Project ID: 05-003-00 (101 WESTMORELAND AVE)
Client ID: SS-8 (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 | 04/06/21 | KCA | 1 | 1 |
| 1,1,1-Trichloroethane | ND | *0.183* | 0.183 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,1,2,2-Tetrachloroethane | ND | *0.146* | 0.146 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,1,2-Trichloroethane | ND | *0.183* | 0.183 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,1-Dichloroethane | ND | *0.247* | 0.247 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,1-Dichloroethene | ND | *0.051* | 0.051 | ND | *0.20* | 0.20 | 04/06/21 | KCA | 1 | |
| 1,2,4-Trichlorobenzene | ND | *0.135* | 0.135 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2,4-Trimethylbenzene | 0.766 | *0.204* | 0.204 | 3.76 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2-Dibromoethane(EDB) | ND | *0.130* | 0.130 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2-Dichlorobenzene | ND | *0.166* | 0.166 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2-Dichloroethane | ND | *0.247* | 0.247 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2-dichloropropane | ND | *0.217* | 0.217 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2-Dichlorotetrafluoroethane | ND | *0.143* | 0.143 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,3,5-Trimethylbenzene | 0.269 | *0.204* | 0.204 | 1.32 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,3-Butadiene | ND | *0.452* | 0.452 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,3-Dichlorobenzene | ND | *0.166* | 0.166 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,4-Dichlorobenzene | ND | *0.166* | 0.166 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,4-Dioxane | ND | *0.278* | 0.278 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 2-Hexanone(MBK) | ND | *0.244* | 0.244 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| 4-Ethyltoluene | 0.888 | *0.204* | 0.204 | 4.36 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| 4-Isopropyltoluene | ND | *0.182* | 0.182 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| 4-Methyl-2-pentanone(MIBK) | ND | *0.244* | 0.244 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Acetone | 16.6 | *0.421* | 0.421 | 39.4 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Acrylonitrile | ND | *0.461* | 0.461 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Benzene | 0.531 | *0.313* | 0.313 | 1.70 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Benzyl chloride | ND | *0.193* | 0.193 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |

Project ID: 05-003-00 (101 WESTMORELAND AVE) Phoenix I.D.: CH92061

Client ID: SS-8 (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 | 04/06/21 | KCA | 1 | |
| Bromoform | ND | *0.097* | 0.097 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Bromomethane | ND | *0.258* | 0.258 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Carbon Disulfide | ND | *0.321* | 0.321 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Carbon Tetrachloride | 0.094 | *0.032* | 0.032 | 0.59 | *0.20* | 0.20 | 04/06/21 | KCA | 1 | |
| Chlorobenzene | ND | *0.217* | 0.217 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Chloroethane | ND | *0.379* | 0.379 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Chloroform | ND | *0.205* | 0.205 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Chloromethane | ND | *0.485* | 0.485 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Cis-1,2-Dichloroethene | ND | *0.051* | 0.051 | ND | *0.20* | 0.20 | 04/06/21 | KCA | 1 | |
| cis-1,3-Dichloropropene | ND | *0.221* | 0.221 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Cyclohexane | 0.865 | *0.291* | 0.291 | 2.98 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Dibromochloromethane | ND | *0.118* | 0.118 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Dichlorodifluoromethane | 0.317 | *0.202* | 0.202 | 1.57 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Ethanol | 9.06 | *0.531* | 0.531 | 17.1 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| Ethyl acetate | ND | *0.278* | 0.278 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| Ethylbenzene | 2.05 | *0.230* | 0.230 | 8.90 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Heptane | 0.905 | *0.244* | 0.244 | 3.71 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Hexachlorobutadiene | ND | *0.094* | 0.094 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Hexane | 0.749 | *0.284* | 0.284 | 2.64 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Isopropylalcohol | 1.53 | *0.407* | 0.407 | 3.76 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Isopropylbenzene | ND | *0.204* | 0.204 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| m,p-Xylene | 6.96 | *0.230* | 0.230 | 30.2 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Methyl Ethyl Ketone | 0.825 | *0.339* | 0.339 | 2.43 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Methyl tert-butyl ether(MTBE) | ND | *0.278* | 0.278 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Methylene Chloride | ND | *0.864* | 0.864 | ND | *3.00* | 3.00 | 04/06/21 | KCA | 1 | |
| n-Butylbenzene | ND | *0.182* | 0.182 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| o-Xylene | 2.47 | *0.230* | 0.230 | 10.7 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Propylene | ND | *0.581* | 0.581 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| sec-Butylbenzene | ND | *0.182* | 0.182 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| Styrene | 0.382 | *0.235* | 0.235 | 1.63 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Tetrachloroethene | 0.106 | *0.037* | 0.037 | 0.72 | *0.25* | 0.25 | 04/06/21 | KCA | 1 | |
| Tetrahydrofuran | ND | *0.339* | 0.339 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| Toluene | 11.2 | *0.266* | 0.266 | 42.2 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Trans-1,2-Dichloroethene | ND | *0.252* | 0.252 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| trans-1,3-Dichloropropene | ND | *0.221* | 0.221 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Trichloroethene | ND | *0.037* | 0.037 | ND | *0.20* | 0.20 | 04/06/21 | KCA | 1 | |
| Trichlorofluoromethane | 0.197 | *0.178* | 0.178 | 1.11 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Trichlorotrifluoroethane | ND | *0.131* | 0.131 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Vinyl Chloride | ND | *0.078* | 0.078 | ND | *0.20* | 0.20 | 04/06/21 | KCA | 1 | |
| **QA/QC Surrogates/Internals** | | | | | | | | | | |
| % Bromofluorobenzene | 100 | % | % | 100 | % | % | 04/06/21 | KCA | 1 | |
| % IS-1,4-Difluorobenzene | 110 | % | % | 110 | % | % | 04/06/21 | KCA | 1 | |
| % IS-Bromochloromethane | 109 | % | % | 109 | % | % | 04/06/21 | KCA | 1 | |
| % IS-Chlorobenzene-d5 | 111 | % | % | 111 | % | % | 04/06/21 | KCA | 1 | |

Project ID: 05-003-00 (101 WESTMORELAND AVE) Phoenix I.D.: CH92061

Client ID: SS-8 (4')

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

1 = This parameter is not certified by 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 08, 2021**

**Reviewed and Released by: Rashmi Makol, Project Manager**

PHOENIX

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

# Analysis Report

April 08, 2021

FOR: Attn: Mr. Fulya Toylular
G.C. Environmental, Inc.
22 Oak Street
Bayshore, NY 11706

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | AIR | Collected by: | FT | 03/30/21 | 15:50 |
| Location Code: | GC-ENV | Received by: | B | 04/05/21 | 14:35 |
| Rush Request: | Standard | Analyzed by: | see "By" below | | |
| P.O.#: | 11935 | | | | |
| Canister Id: | 23345 | | | | |

## Laboratory Data

SDG ID: GCH92051
Phoenix ID: CH92062

Project ID: 05-003-00 (101 WESTMORELAND AVE)
Client ID: IA-1

| Parameter | ppbv Result | ppbv RL | LOD/ MDL | ug/m3 Result | ug/m3 RL | LOD/ MDL | Date/Time | By | Dilution | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Volatiles (TO15)** | | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | *0.146* | 0.146 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | 1 |
| 1,1,1-Trichloroethane | ND | *0.183* | 0.183 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| 1,1,2,2-Tetrachloroethane | ND | *0.146* | 0.146 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| 1,1,2-Trichloroethane | ND | *0.183* | 0.183 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| 1,1-Dichloroethane | ND | *0.247* | 0.247 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| 1,1-Dichloroethene | ND | *0.051* | 0.051 | ND | *0.20* | 0.20 | 04/05/21 | KCA | 1 | |
| 1,2,4-Trichlorobenzene | ND | *0.135* | 0.135 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| 1,2,4-Trimethylbenzene | 1.21 | *0.204* | 0.204 | 5.94 | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| 1,2-Dibromoethane(EDB) | ND | *0.130* | 0.130 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| 1,2-Dichlorobenzene | ND | *0.166* | 0.166 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| 1,2-Dichloroethane | ND | *0.247* | 0.247 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| 1,2-dichloropropane | ND | *0.217* | 0.217 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| 1,2-Dichlorotetrafluoroethane | ND | *0.143* | 0.143 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| 1,3,5-Trimethylbenzene | 0.336 | *0.204* | 0.204 | 1.65 | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| 1,3-Butadiene | ND | *0.452* | 0.452 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| 1,3-Dichlorobenzene | ND | *0.166* | 0.166 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| 1,4-Dichlorobenzene | ND | *0.166* | 0.166 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| 1,4-Dioxane | ND | *0.278* | 0.278 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| 2-Hexanone(MBK) | ND | *0.244* | 0.244 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | 1 |
| 4-Ethyltoluene | 0.978 | *0.204* | 0.204 | 4.80 | *1.00* | 1.00 | 04/05/21 | KCA | 1 | 1 |
| 4-Isopropyltoluene | ND | *0.182* | 0.182 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | 1 |
| 4-Methyl-2-pentanone(MIBK) | ND | *0.244* | 0.244 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| Acetone | 29.6 | *2.11* | 2.11 | 70.3 | *5.01* | 5.01 | 04/06/21 | KCA | 5 | |
| Acrylonitrile | ND | *0.461* | 0.461 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| Benzene | 1.68 | *0.313* | 0.313 | 5.36 | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| Benzyl chloride | ND | *0.193* | 0.193 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |

Project ID: 05-003-00 (101 WESTMORELAND AVE) Phoenix I.D.: CH92062

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 | 04/05/21 | KCA | 1 | |
| Bromoform | ND | *0.097* | 0.097 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| Bromomethane | ND | *0.258* | 0.258 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| Carbon Disulfide | ND | *0.321* | 0.321 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| Carbon Tetrachloride | 0.128 | *0.032* | 0.032 | 0.80 | *0.20* | 0.20 | 04/05/21 | KCA | 1 | |
| Chlorobenzene | ND | *0.217* | 0.217 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| Chloroethane | ND | *0.379* | 0.379 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| Chloroform | ND | *0.205* | 0.205 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| Chloromethane | 0.737 | *0.485* | 0.485 | 1.52 | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| Cis-1,2-Dichloroethene | ND | *0.051* | 0.051 | ND | *0.20* | 0.20 | 04/05/21 | KCA | 1 | |
| cis-1,3-Dichloropropene | ND | *0.221* | 0.221 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| Cyclohexane | 2.47 | *0.291* | 0.291 | 8.50 | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| Dibromochloromethane | ND | *0.118* | 0.118 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| Dichlorodifluoromethane | 0.407 | *0.202* | 0.202 | 2.01 | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| Ethanol | 185 | *2.66* | 2.66 | 348 | *5.01* | 5.01 | 04/06/21 | KCA | 5 | 1 |
| Ethyl acetate | ND | *0.278* | 0.278 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | 1 |
| Ethylbenzene | 1.19 | *0.230* | 0.230 | 5.16 | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| Heptane | 3.75 | *0.244* | 0.244 | 15.4 | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| Hexachlorobutadiene | ND | *0.094* | 0.094 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| Hexane | 4.16 | *0.284* | 0.284 | 14.7 | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| Isopropylalcohol | 3.80 | *0.407* | 0.407 | 9.33 | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| Isopropylbenzene | ND | *0.204* | 0.204 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| m,p-Xylene | 4.68 | *0.230* | 0.230 | 20.3 | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| Methyl Ethyl Ketone | 0.760 | *0.339* | 0.339 | 2.24 | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| Methyl tert-butyl ether(MTBE) | ND | *0.278* | 0.278 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| Methylene Chloride | ND | *0.864* | 0.864 | ND | *3.00* | 3.00 | 04/05/21 | KCA | 1 | |
| n-Butylbenzene | ND | *0.182* | 0.182 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | 1 |
| o-Xylene | 1.55 | *0.230* | 0.230 | 6.73 | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| Propylene | ND | *0.581* | 0.581 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | 1 |
| sec-Butylbenzene | ND | *0.182* | 0.182 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | 1 |
| Styrene | 0.324 | *0.235* | 0.235 | 1.38 | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| Tetrachloroethene | ND | *0.037* | 0.037 | ND | *0.25* | 0.25 | 04/05/21 | KCA | 1 | |
| Tetrahydrofuran | 0.505 | *0.339* | 0.339 | 1.49 | *1.00* | 1.00 | 04/05/21 | KCA | 1 | 1 |
| Toluene | 10.7 | *0.266* | 0.266 | 40.3 | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| Trans-1,2-Dichloroethene | ND | *0.252* | 0.252 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| trans-1,3-Dichloropropene | ND | *0.221* | 0.221 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| Trichloroethene | ND | *0.037* | 0.037 | ND | *0.20* | 0.20 | 04/05/21 | KCA | 1 | |
| Trichlorofluoromethane | 0.267 | *0.178* | 0.178 | 1.50 | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| Trichlorotrifluoroethane | ND | *0.131* | 0.131 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| Vinyl Chloride | ND | *0.078* | 0.078 | ND | *0.20* | 0.20 | 04/05/21 | KCA | 1 | |
| **QA/QC Surrogates/Internals** | | | | | | | | | | |
| % Bromofluorobenzene | 98 | *%* | % | 98 | *%* | % | 04/05/21 | KCA | 1 | |
| % IS-1,4-Difluorobenzene | 73 | *%* | % | 73 | *%* | % | 04/05/21 | KCA | 1 | |
| % IS-Bromochloromethane | 73 | *%* | % | 73 | *%* | % | 04/05/21 | KCA | 1 | |
| % IS-Chlorobenzene-d5 | 74 | *%* | % | 74 | *%* | % | 04/05/21 | KCA | 1 | |
| % Bromofluorobenzene (5x) | 99 | *%* | % | 99 | *%* | % | 04/06/21 | KCA | 5 | |
| % IS-1,4-Difluorobenzene (5x) | 115 | *%* | % | 115 | *%* | % | 04/06/21 | KCA | 5 | |
| % IS-Bromochloromethane (5x) | 115 | *%* | % | 115 | *%* | % | 04/06/21 | KCA | 5 | |
| % IS-Chlorobenzene-d5 (5x) | 114 | *%* | % | 114 | *%* | % | 04/06/21 | KCA | 5 | |

**Ver 1**

Project ID: 05-003-00 (101 WESTMORELAND AVE) Phoenix I.D.: CH92062

Client ID: IA-1

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

1 = This parameter is not certified by 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 08, 2021**

**Reviewed and Released by: Rashmi Makol, Project Manager**

PHOENIX

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

# Analysis Report

April 08, 2021

FOR: Attn: Mr. Fulya Toylular
G.C. Environmental, Inc.
22 Oak Street
Bayshore, NY 11706

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | AIR | Collected by: | FT | 03/30/21 | 12:45 |
| Location Code: | GC-ENV | Received by: | B | 04/05/21 | 14:35 |
| Rush Request: | Standard | Analyzed by: | see "By" below | | |
| P.O.#: | 11935 | | | | |
| Canister Id: | 13633 | | | | |

## Laboratory Data

SDG ID: GCH92051
Phoenix ID: CH92063

Project ID: 05-003-00 (101 WESTMORELAND AVE)
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 | *0.146* | 0.146 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| 1,1,1-Trichloroethane | 10.0 | *0.183* | 0.183 | 54.5 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,1,2,2-Tetrachloroethane | ND | *0.146* | 0.146 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,1,2-Trichloroethane | ND | *0.183* | 0.183 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,1-Dichloroethane | ND | *0.247* | 0.247 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,1-Dichloroethene | ND | *0.051* | 0.051 | ND | *0.20* | 0.20 | 04/06/21 | KCA | 1 | |
| 1,2,4-Trichlorobenzene | ND | *0.135* | 0.135 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2,4-Trimethylbenzene | ND | *0.204* | 0.204 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2-Dibromoethane(EDB) | ND | *0.130* | 0.130 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2-Dichlorobenzene | ND | *0.166* | 0.166 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2-Dichloroethane | ND | *0.247* | 0.247 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2-dichloropropane | ND | *0.217* | 0.217 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2-Dichlorotetrafluoroethane | ND | *0.143* | 0.143 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,3,5-Trimethylbenzene | ND | *0.204* | 0.204 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,3-Butadiene | ND | *0.452* | 0.452 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,3-Dichlorobenzene | ND | *0.166* | 0.166 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,4-Dichlorobenzene | ND | *0.166* | 0.166 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,4-Dioxane | 1.50 | *0.278* | 0.278 | 5.40 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 2-Hexanone(MBK) | ND | *0.244* | 0.244 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| 4-Ethyltoluene | ND | *0.204* | 0.204 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| 4-Isopropyltoluene | ND | *0.182* | 0.182 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| 4-Methyl-2-pentanone(MIBK) | ND | *0.244* | 0.244 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Acetone | 62.7 | *2.11* | 2.11 | 149 | *5.01* | 5.01 | 04/06/21 | KCA | 5 | |
| Acrylonitrile | ND | *0.461* | 0.461 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Benzene | ND | *0.313* | 0.313 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Benzyl chloride | ND | *0.193* | 0.193 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |

Project ID: 05-003-00 (101 WESTMORELAND AVE) Phoenix I.D.: CH92063

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 | *0.149* | 0.149 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Bromoform | ND | *0.097* | 0.097 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Bromomethane | ND | *0.258* | 0.258 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Carbon Disulfide | ND | *0.321* | 0.321 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Carbon Tetrachloride | 0.056 | *0.032* | 0.032 | 0.35 | *0.20* | 0.20 | 04/06/21 | KCA | 1 | |
| Chlorobenzene | ND | *0.217* | 0.217 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Chloroethane | ND | *0.379* | 0.379 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Chloroform | ND | *0.205* | 0.205 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Chloromethane | ND | *0.485* | 0.485 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Cis-1,2-Dichloroethene | ND | *0.051* | 0.051 | ND | *0.20* | 0.20 | 04/06/21 | KCA | 1 | |
| cis-1,3-Dichloropropene | ND | *0.221* | 0.221 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Cyclohexane | ND | *0.291* | 0.291 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Dibromochloromethane | ND | *0.118* | 0.118 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Dichlorodifluoromethane | 0.368 | *0.202* | 0.202 | 1.82 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Ethanol | 97.1 | *2.66* | 2.66 | 183 | *5.01* | 5.01 | 04/06/21 | KCA | 5 | 1 |
| Ethyl acetate | ND | *0.278* | 0.278 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| Ethylbenzene | 0.311 | *0.230* | 0.230 | 1.35 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Heptane | 0.302 | *0.244* | 0.244 | 1.24 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Hexachlorobutadiene | ND | *0.094* | 0.094 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Hexane | 0.374 | *0.284* | 0.284 | 1.32 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Isopropylalcohol | 29.6 | *0.407* | 0.407 | 72.7 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Isopropylbenzene | ND | *0.204* | 0.204 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| m,p-Xylene | 0.589 | *0.230* | 0.230 | 2.56 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Methyl Ethyl Ketone | 0.691 | *0.339* | 0.339 | 2.04 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Methyl tert-butyl ether(MTBE) | ND | *0.278* | 0.278 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Methylene Chloride | ND | *0.864* | 0.864 | ND | *3.00* | 3.00 | 04/06/21 | KCA | 1 | |
| n-Butylbenzene | ND | *0.182* | 0.182 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| o-Xylene | ND | *0.230* | 0.230 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Propylene | ND | *0.581* | 0.581 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| sec-Butylbenzene | ND | *0.182* | 0.182 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| Styrene | 0.596 | *0.235* | 0.235 | 2.54 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Tetrachloroethene | 7.83 | *0.037* | 0.037 | 53.1 | *0.25* | 0.25 | 04/06/21 | KCA | 1 | |
| Tetrahydrofuran | ND | *0.339* | 0.339 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| Toluene | 1.93 | *0.266* | 0.266 | 7.27 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Trans-1,2-Dichloroethene | ND | *0.252* | 0.252 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| trans-1,3-Dichloropropene | ND | *0.221* | 0.221 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Trichloroethene | ND | *0.037* | 0.037 | ND | *0.20* | 0.20 | 04/06/21 | KCA | 1 | |
| Trichlorofluoromethane | 0.195 | *0.178* | 0.178 | 1.09 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Trichlorotrifluoroethane | ND | *0.131* | 0.131 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Vinyl Chloride | ND | *0.078* | 0.078 | ND | *0.20* | 0.20 | 04/06/21 | KCA | 1 | |
| **QA/QC Surrogates/Internals** | | | | | | | | | | |
| % Bromofluorobenzene | 99 | % | % | 99 | % | % | 04/06/21 | KCA | 1 | |
| % IS-1,4-Difluorobenzene | 113 | % | % | 113 | % | % | 04/06/21 | KCA | 1 | |
| % IS-Bromochloromethane | 110 | % | % | 110 | % | % | 04/06/21 | KCA | 1 | |
| % IS-Chlorobenzene-d5 | 113 | % | % | 113 | % | % | 04/06/21 | KCA | 1 | |
| % Bromofluorobenzene (5x) | 102 | % | % | 102 | % | % | 04/06/21 | KCA | 5 | |
| % IS-1,4-Difluorobenzene (5x) | 72 | % | % | 72 | % | % | 04/06/21 | KCA | 5 | |
| % IS-Bromochloromethane (5x) | 70 | % | % | 70 | % | % | 04/06/21 | KCA | 5 | |
| % IS-Chlorobenzene-d5 (5x) | 70 | % | % | 70 | % | % | 04/06/21 | KCA | 5 | |

**Ver 1**

Project ID: 05-003-00 (101 WESTMORELAND AVE) Phoenix I.D.: CH92063

Client ID: SS-2

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

1 = This parameter is not certified by 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 08, 2021**

**Reviewed and Released by: Rashmi Makol, Project Manager**

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

# Analysis Report

April 08, 2021

FOR: Attn: Mr. Fulya Toylular
G.C. Environmental, Inc.
22 Oak Street
Bayshore, NY 11706

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | AIR | Collected by: | FT | 03/30/21 | 13:00 |
| Location Code: | GC-ENV | Received by: | B | 04/05/21 | 14:35 |
| Rush Request: | Standard | Analyzed by: | see "By" below | | |
| P.O.#: | 11935 | | | | |
| Canister Id: | 367 | | | | |

## Laboratory Data

SDG ID: GCH92051
Phoenix ID: CH92064

Project ID: 05-003-00 (101 WESTMORELAND AVE)
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 | *0.146* | 0.146 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| 1,1,1-Trichloroethane | 111 | *0.917* | 0.917 | 605 | *5.00* | 5.00 | 04/06/21 | KCA | 5 | |
| 1,1,2,2-Tetrachloroethane | ND | *0.146* | 0.146 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,1,2-Trichloroethane | ND | *0.183* | 0.183 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,1-Dichloroethane | ND | *0.247* | 0.247 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,1-Dichloroethene | ND | *0.051* | 0.051 | ND | *0.20* | 0.20 | 04/06/21 | KCA | 1 | |
| 1,2,4-Trichlorobenzene | ND | *0.135* | 0.135 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2,4-Trimethylbenzene | ND | *0.204* | 0.204 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2-Dibromoethane(EDB) | ND | *0.130* | 0.130 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2-Dichlorobenzene | ND | *0.166* | 0.166 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2-Dichloroethane | 0.497 | *0.247* | 0.247 | 2.01 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2-dichloropropane | ND | *0.217* | 0.217 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2-Dichlorotetrafluoroethane | ND | *0.143* | 0.143 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,3,5-Trimethylbenzene | ND | *0.204* | 0.204 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,3-Butadiene | ND | *0.452* | 0.452 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,3-Dichlorobenzene | ND | *0.166* | 0.166 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,4-Dichlorobenzene | ND | *0.166* | 0.166 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,4-Dioxane | 2.02 | *0.278* | 0.278 | 7.28 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 2-Hexanone(MBK) | ND | *0.244* | 0.244 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| 4-Ethyltoluene | ND | *0.204* | 0.204 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| 4-Isopropyltoluene | ND | *0.182* | 0.182 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| 4-Methyl-2-pentanone(MIBK) | ND | *0.244* | 0.244 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Acetone | 65.5 | *2.11* | 2.11 | 155 | *5.01* | 5.01 | 04/06/21 | KCA | 5 | |
| Acrylonitrile | ND | *0.461* | 0.461 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Benzene | ND | *0.313* | 0.313 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Benzyl chloride | ND | *0.193* | 0.193 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |

**Ver 1**

Project ID: 05-003-00 (101 WESTMORELAND AVE) Phoenix I.D.: CH92064

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 | *0.149* | 0.149 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Bromoform | ND | *0.097* | 0.097 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Bromomethane | ND | *0.258* | 0.258 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Carbon Disulfide | 1.51 | *0.321* | 0.321 | 4.70 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Carbon Tetrachloride | ND | *0.032* | 0.032 | ND | *0.20* | 0.20 | 04/06/21 | KCA | 1 | |
| Chlorobenzene | ND | *0.217* | 0.217 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Chloroethane | ND | *0.379* | 0.379 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Chloroform | ND | *0.205* | 0.205 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Chloromethane | ND | *0.485* | 0.485 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Cis-1,2-Dichloroethene | ND | *0.051* | 0.051 | ND | *0.20* | 0.20 | 04/06/21 | KCA | 1 | |
| cis-1,3-Dichloropropene | ND | *0.221* | 0.221 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Cyclohexane | 2.54 | *0.291* | 0.291 | 8.74 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Dibromochloromethane | ND | *0.118* | 0.118 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Dichlorodifluoromethane | 0.531 | *0.202* | 0.202 | 2.62 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Ethanol | 541 | E *2.66* | 2.66 | 1020 | *5.01* | 5.01 | 04/06/21 | KCA | 5 | 1 |
| Ethyl acetate | ND | *0.278* | 0.278 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| Ethylbenzene | 0.246 | *0.230* | 0.230 | 1.07 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Heptane | 0.468 | *0.244* | 0.244 | 1.92 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Hexachlorobutadiene | ND | *0.094* | 0.094 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Hexane | 0.523 | *0.284* | 0.284 | 1.84 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Isopropylalcohol | 62.4 | *2.04* | 2.04 | 153 | *5.01* | 5.01 | 04/06/21 | KCA | 5 | |
| Isopropylbenzene | ND | *0.204* | 0.204 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| m,p-Xylene | 0.454 | *0.230* | 0.230 | 1.97 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Methyl Ethyl Ketone | 0.715 | *0.339* | 0.339 | 2.11 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Methyl tert-butyl ether(MTBE) | ND | *0.278* | 0.278 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Methylene Chloride | ND | *0.864* | 0.864 | ND | *3.00* | 3.00 | 04/06/21 | KCA | 1 | |
| n-Butylbenzene | ND | *0.182* | 0.182 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| o-Xylene | ND | *0.230* | 0.230 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Propylene | 0.951 | *0.581* | 0.581 | 1.64 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| sec-Butylbenzene | ND | *0.182* | 0.182 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| Styrene | ND | *0.235* | 0.235 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Tetrachloroethene | 9.63 | *0.037* | 0.037 | 65.3 | *0.25* | 0.25 | 04/06/21 | KCA | 1 | |
| Tetrahydrofuran | ND | *0.339* | 0.339 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| Toluene | 1.97 | *0.266* | 0.266 | 7.42 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Trans-1,2-Dichloroethene | ND | *0.252* | 0.252 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| trans-1,3-Dichloropropene | ND | *0.221* | 0.221 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Trichloroethene | 0.180 | *0.037* | 0.037 | 0.97 | *0.20* | 0.20 | 04/06/21 | KCA | 1 | |
| Trichlorofluoromethane | 0.185 | *0.178* | 0.178 | 1.04 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Trichlorotrifluoroethane | 0.197 | *0.131* | 0.131 | 1.51 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Vinyl Chloride | ND | *0.078* | 0.078 | ND | *0.20* | 0.20 | 04/06/21 | KCA | 1 | |
| **QA/QC Surrogates/Internals** | | | | | | | | | | |
| % Bromofluorobenzene | 99 | % | % | 99 | % | % | 04/06/21 | KCA | 1 | |
| % IS-1,4-Difluorobenzene | 116 | % | % | 116 | % | % | 04/06/21 | KCA | 1 | |
| % IS-Bromochloromethane | 116 | % | % | 116 | % | % | 04/06/21 | KCA | 1 | |
| % IS-Chlorobenzene-d5 | 117 | % | % | 117 | % | % | 04/06/21 | KCA | 1 | |
| % Bromofluorobenzene (5x) | 103 | % | % | 103 | % | % | 04/06/21 | KCA | 5 | |
| % IS-1,4-Difluorobenzene (5x) | 69 | % | % | 69 | % | % | 04/06/21 | KCA | 5 | |
| % IS-Bromochloromethane (5x) | 69 | % | % | 69 | % | % | 04/06/21 | KCA | 5 | |
| % IS-Chlorobenzene-d5 (5x) | 69 | % | % | 69 | % | % | 04/06/21 | KCA | 5 | |

**Ver 1**

Project ID: 05-003-00 (101 WESTMORELAND AVE) Phoenix I.D.: CH92064

Client ID: SS-3

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

1 = This parameter is not certified by 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:

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 08, 2021**

**Reviewed and Released by: Rashmi Makol, Project Manager**

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

# Canister Sampling Information

April 08, 2021

FOR: Attn: Mr. Fulya Toylular
G.C. Environmental, Inc.
22 Oak Street
Bayshore, NY 11706

Location Code: GC-ENV

SDG I.D.: GCH92051

Project ID: 05-003-00 (101 WESTMORELAND AVE)

| | | | | | | Laboratory | | | | | Field | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Client Id | Lab Id | Canister Id | Canister Type | Reg. Id | Chk Out Date | Out Hg | In Hg | Out Flow | In Flow | Flow RPD | Start Hg | End Hg | Sampling Start Date | Sampling End Date |
| SS-7 | CH92052 | 28567 | 6.0L | 4481 | 03/29/21 | -30 | -3 | 43 | 43 | 0.0 | -30 | -5 | 03/30/21 13:20 | 03/30/21 15:20 |
| SS-5 | CH92053 | 13651 | 6.0L | 4980 | 03/29/21 | -30 | -1 | 43 | 44 | 2.3 | -29 | -4 | 03/30/21 11:36 | 03/30/21 13:36 |
| SS-10 (5') | CH92054 | 12864 | 6.0L | 6988 | 03/29/21 | -30 | -8 | 43 | 51 | 17.0 | -29 | | 04/02/21 10:45 | 04/02/21 12:45 |
| OA-1 | CH92055 | 28603 | 6.0L | 3248 | 03/29/21 | -30 | 0 | 43 | 48 | 11.0 | -29 | -4 | 04/02/21 11:06 | 04/02/21 13:06 |
| SS-6 | CH92056 | 28582 | 6.0L | 7034 | 03/29/21 | -30 | -1 | 43 | 44 | 2.3 | -29 | -5 | 03/30/21 11:42 | 03/30/21 13:42 |
| SS-4 | CH92057 | 479 | 6.0L | 5619 | 03/29/21 | -30 | 0 | 43 | 43 | 0.0 | -28 | -4 | 03/30/21 11:15 | 03/30/21 13:15 |
| SS-11 (5') | CH92058 | 484 | 6.0L | 5596 | 03/29/21 | -30 | -1 | 43 | 43 | 0.0 | -29 | | 04/02/21 11:40 | 04/02/21 13:40 |
| SS-9 (5') | CH92059 | 470 | 6.0L | 2887 | 03/29/21 | -30 | -2 | 43 | 43 | 0.0 | -29 | -8 | 04/02/21 10:15 | 04/02/21 12:15 |
| SS-1 | CH92060 | 18111 | 6.0L | 3500 | 03/29/21 | -30 | -2 | 43 | 44 | 2.3 | -29 | -4 | 03/30/21 10:36 | 03/30/21 12:35 |
| SS-8 (4') | CH92061 | 19732 | 6.0L | 7025 | 03/29/21 | -30 | -3 | 43 | 45 | 4.5 | -30 | -4 | 03/30/21 13:50 | 03/30/21 15:50 |
| IA-1 | CH92062 | 23345 | 6.0L | 7036 | 03/29/21 | -30 | -4 | 43 | 44 | 2.3 | -29 | -5 | 03/30/21 13:50 | 03/30/21 15:50 |
| SS-2 | CH92063 | 13633 | 6.0L | 5000 | 03/29/21 | -30 | -2 | 43 | 46 | 6.7 | -29 | -5 | 03/30/21 10:45 | 03/30/21 12:45 |
| SS-3 | CH92064 | 367 | 6.0L | 3250 | 03/29/21 | -30 | -1 | 43 | 42 | 2.4 | -28 | -4 | 03/30/21 11:00 | 03/30/21 13:00 |

Thursday, April 08, 2021

Criteria: None

State: NY

# Sample Criteria Exceedances Report

## GCH92051 - GC-ENV

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

*** No Data to Display ***

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

**PHOENIX**
*Environmental Laboratories, Inc.*
587 East Middle Turnpike, 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. # Page of

Data Delivery:
Fax #: (631) 206 3729
Email: ftaylor@gcenvironmental.com
Phone # (631) 206 3700

Report to: Fulya Taylular
Customer: GC EM.
Address: 22 Oak Streets, Bay Shore, NY 11706

Project Name: 05-003-00 (101 Westwood Ave.)
Invoice to: Diana Legakis
Sampled by: Fulya Taylular

Data Format: (Circle) Equis Excel Other:
Requested Deliverable: RCP ASP CAT B MCP NJ Deliverables
Quote Number:

| Phoenix ID # | Client Sample ID | Canister ID # | Canister Size (L) | Outgoing Canister Pressure (" Hg) | Incoming Canister Pressure ("Hg) | Flow Regulator ID # | Flow Controller Setting (mL/min) | Sampling Start Time | Sampling End Time | Sample Start Date | Canister Pressure at Start (" Hg) | Canister Pressure at End ("Hg) | Ambient/Indoor Air | Soil Gas | Grab (G) Composite (C) | TO-15 | APH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *THIS SECTION FOR LAB USE ONLY* | | | | | | | | | | | | MATRIX | | | ANALYSES | |
| 92051 | SS-12 | 469 | 6.0 | -30 | -7 | 7046 | 73 | 1:30 | 3:50 | 4.1.21 | -29 | -10 | | X | | X | |
| ~~9~~ km | ~~SS-12 - not not used~~ | 173 | | | | 5615 | | ~~12:30~~ | ~~2:50~~ | 4.1.21 | -29 | | | X | | X | |
| 92052 | SS-7 (SS-4A) | 28567 | | | -3 | 4481 | | 1:20pm | 3:10 | 3.30.21 | -30 | -5 | | X | | X | |
| 92053 | SS-5 | 13651 | | | -1 | 4980 | | 11:36 | 1:36pm | 3.30.21 | -29 | -4 | | X | | X | |
| 92054 | SS-10 | 12864 | | | -8 | 6988 | | 10:45 | 12:45 | 4.2.21 | -29 | - | | X | | X | |
| 92055 | OA-1 | 28603 | ↓ | ↓ | 0 | 3248 | ↓ | 11:06 | 1:06pm | 3.30.21 | -29 | -4 | X | | | X | |

| Relinquished by: | Accepted by: | Date: | Time: |
|---|---|---|---|
| | | 4.5.21 | 10:05 |
| | | 4/5/21 | ~~15:11~~ 14:35 |

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

Signature: _____ Date: _____

State Where Samples Collected: _____

SPECIAL INSTRUCTIONS, QC REQUIREMENTS, REGULATORY INFORMATION:
(b)(6-0)
2HR

Turnaround Time:
- 1 Day ☐
- 2 Day ☐
- 3 Day ☐
- 4 Day ☐
- 5 Day ☑

Requested Criteria: (Please Circle)

| CT: | MA: | NJ: | NY: | PA: | VT: |
|---|---|---|---|---|---|
| TAC I/C<br>TAC RES<br>SVVC I/C<br>SVVC RES<br>GWV I/C<br>GWV CES | **Indoor Air:**<br>Residential<br>Ind/Commercial<br>**Soil Gas:**<br>Residential<br>Ind/Commercial | **Indoor Air:**<br>Residential<br>Ind/Commercial<br>**Soil Gas:**<br>Residential<br>Ind/Commercial | Vapor Intrusion | **Indoor Air**<br>Residential<br>Non-residential | **Indoor Air**<br>Residential<br>Industrial<br>**Sub-slab**<br>Residential<br>Industrial |

PEL-115 Rev. 9/2019

**PHOENIX**
*Environmental Laboratories, Inc.*

587 East Middle Turnpike, 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. #  Page  of

Data Delivery:
☑ Fax #: (631) 206 3729
☑ Email: ftaylor@gcenvironmental.com
☑ Phone #: (631) 206 7700

Report to: Fulya Taylular
Customer: GC Env.
Address: 220 Oak Street, Bay Shore, NY 11706

Project Name: 05-003-00 (101 Westwood Ave.)
Invoice to: Nina Legabos
Sampled by: Fulya Taylular

Data Format: (Circle) Equis Excel Other:
Requested Deliverable: RCP ASP CAT B
MCP NJ Deliverables
Quote Number:

| Phoenix ID # | Client Sample ID | Canister ID # | Canister Size (L) | Outgoing Canister Pressure (" Hg) | Incoming Canister Pressure ("Hg) | Flow Regulator ID # | Flow Controller Setting (mL/min) | Sampling Start Time | Sampling End Time | Sample Start Date | Canister Pressure at Start (" Hg) | Canister Pressure at End ("Hg) | Ambient/Indoor Air | Soil Gas | Grab (G) Composite (C) | TO-15 | APH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *THIS SECTION FOR LAB USE ONLY* | | | | | | | | | | | | MATRIX | | | ANALYSES | |
| 92056 | SS-6 | 28582 | 6.0 | -30 | -1 | 7034 | 43 | 11:42 | 1:42 | 3.30.21 | -29 | -5 | | X | | X | |
| 92057 | SS-4 | 479 | | | 0 | 5619 | | 11:15 | 1:15pm | 11 | -28 | -4 | | X | | X | |
| 92058 | SS-11 | 484 | | | -1 | 5596 | | 11:40 | 1:40 | 4.2.21 | -29 | | | X | | X | |
| 92059 | SS-9 | 470 | | | -2 | 2887 | | 10:15 | 12:15 | 4.2.21 | -29 | -8 | | X | | X | |
| 92060 | SS-1 | 18111 | | | -2 | 3500 | | 10:36 | 12:35 | 3.30.21 | -29 | -4 | | X | | X | |
| 92061 | SS-8 (Dup) | 19732 | | | -3 | 7025 | | 1:50pm | 3:50pm | 11 | -30 | -4 | | X | | X | |
| 92062 | IA-1 | 23345 | | | -4 | 7036 | | 1:50pm | 3:50pm | 11 | -29 | -5 | X | | | X | |
| 92063 | SS-2 | 13633 | | | -2 | 5000 | | 10:45a | 12:45p | 11 | -29 | -5 | | X | | X | |
| | not used | 227 | | | -30 | 5541 | | | | | | | | | | | |
| 92064 | SS-3 | 367 | ↓ | ↓ | -1 | 3250 | ↓ | 11:00 | 1:00pm | 11 | -28 | -4 | | X | | X | |

| Relinquished by: | Accepted by: | Date: | Time: |
|---|---|---|---|
| | | 4.5.21 | 10:05 |
| | | 4/5/21 | 15:10 |

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

Signature: _____ Date: _____

14:35

State Where Samples Collected: _____

SPECIAL INSTRUCTIONS, QC REQUIREMENTS, REGULATORY INFORMATION:
(10)6-0
2+2

Turnaround Time:
- 1 Day ☐
- 2 Day ☐
- 3 Day ☐
- 4 Day ☐
- 5 Day ☑

Requested Criteria: (Please Circle)

| CT: | MA: | NJ: | NY: | PA: | VT: |
|---|---|---|---|---|---|
| TAC I/C<br>TAC RES<br>SVVC I/C<br>SVVC RES<br>GWV I/C<br>GWV CES | **Indoor Air:**<br>Residential<br>Ind/Commercial<br>**Soil Gas:**<br>Residential<br>Ind/Commercial | **Indoor Air:**<br>Residential<br>Ind/Commercial<br>**Soil Gas:**<br>Residential<br>Ind/Commercial | Vapor Intrusion | **Indoor Air**<br>Residential<br>Non-residential | **Indoor Air**<br>Residential<br>Industrial<br>**Sub-slab**<br>Residential<br>Industrial |

# APPENDIX C

PHOENIX
Environmental Laboratories, Inc.

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

G.C. Environmental, Inc.

05-003-00 (101 WESTMORELAND AVE)

GCH92051

Ver 1

# Data Package Table of Contents


GCH92051 Analytical Report 5
- Cover Letter 5
- Project Summary 6
- SDG Comments 9
- Sample Id Cross Reference 10
- Analytical Report 11
- Canister Sampling Information 53
- QA/QC Report 54
- Sample Criteria Exceedances Report 58
- COC-GCH92051 59
- ID-GCH92051 61

GCH92051 Air V1 63
- Organic Flags 64
- Non-Conformance Summary 65
- Monitoring Compound Recovery (Form 2) 67
  - CH91147 - Batch 569856 67
  - CH91177 - Batch 569685 68
- Spike Recovery (Form 3) 69
  - CH91147 LCS 69
  - CH91177 LCS 71
- Method Blank Summary (Form 4) 73
  - CH91147 BLK - Batch 569856 04/06/21 13:03 73
  - CH91177 BLK - Batch 569685 04/05/21 12:00 74
- Tune Summary (Form 5) 75
  - CHEM20 - 0326_03.D 75
  - CHEM20 - 0405_02.D 77
  - CHEM24 - 0310_02.D 79
  - CHEM24 - 0405_34.D 81
- Internal Standard (Form 8) 83
  - CHEM20 - 03/27/21 02:36 83
  - CHEM20 - 04/05/21 08:25 85
  - CHEM24 - 03/10/21 16:57 87
  - CHEM24 - 04/06/21 10:58 89
- Analysis Data Sheet (Form 1) 91
  - CH92051 / SS-12 (5') 91

CH92052 / SS-7 108
CH92052 / SS-7 5X 127
CH92053 / SS-5 138
CH92053 / SS-5 5X 154
CH92054 / SS-10 (5') 162
CH92055 / OA-1 177
CH92056 / SS-6 188
CH92056 / SS-6 5X 207
CH92057 / SS-4 215
CH92057 / SS-4 5X 235
CH92058 / SS-11 (5') 246
CH92058 / SS-11 (5') 5X 268
CH92059 / SS-9 (5') 279
CH92060 / SS-1 295
CH92061 / SS-8 (4') 311
CH92062 / IA-1 329
CH92062 / IA-1 5X 346
CH92063 / SS-2 355
CH92063 / SS-2 5X 372
CH92064 / SS-3 379
CH92064 / SS-3 5X 398
Initial Calibration Summary (Form 6) 408
CHEM20 408
CHEM24 411
CHEM20 - 03/26/21 414
CHEM24 - 03/10/21 467
Continuing Calibration Summary (Form 7) 520
CHEM20 - 04/05/21 08:25 520
CHEM24 - 04/06/21 10:58 530
Analysis Data Sheet QC (Form 1) 540
CH91147 LCS 540
CH91147 QC 546
CH91147 BLANK 567
CH91147 DUP 571
CH91177 LCS 592
CH91177 QC 0.5X 598
CH91177 BLANK 625
CH91177 DUP 629

Canister Cleaning Batch# 2113 651
Canister Cleaning Batch# 2118 658
Canister Cleaning Batch# 2120 663
Injection Log 666
Injection Log - CHEM20 03/26/02 666
Injection Log - CHEM20 04/05/02 667
Injection Log - CHEM24 03/10/02 668
Injection Log - CHEM24 03/15/02 669
Injection Log - CHEM24 03/18/02 670
Injection Log - CHEM24 04/05/02 671

**Wednesday, May 05, 2021**

**Attn: Mr. Fulya Toylular**
**G.C. Environmental, Inc.**
**22 Oak Street**
**Bayshore, NY 11706**

**Project ID:** **05-003-00 (101 WESTMORELAND AVE)**
**SDG ID:** **GCH92051**
**Sample ID#s: CH92051 - CH92064**

**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.**

**Enclosed are revised Analysis Report pages. Please replace and discard the original pages. 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,**



**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**

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

# NY ANALYTICAL SERVICES PROTOCOL
# DATA PACKAGE

**Client: G.C. Environmental, Inc.**

**Project: 05-003-00 (101 WESTMORELAND AVE)**

**Laboratory Project: GCH92051**

**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

**May 05, 2021** **SDG I.D.: GCH92051**

**G.C. Environmental, Inc. 05-003-00 (101 WESTMORELAND AVE)**

## 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 # 11301

# NY Analytical Services Protocol Format

**May 05, 2021** **SDG I.D.: GCH92051**

**G.C. Environmental, Inc. 05-003-00 (101 WESTMORELAND AVE)**

## Laboratory Chronicle

| Sample | Analysis | Collection Date | Prep Date | Analysis Date | Analyst | Hold Time Met |
|---|---|---|---|---|---|---|
| CH92051 | Volatiles (TO15) | 04/01/21 | 04/06/21 | 04/06/21 | KCA | Y |
| CH92052 | Volatiles (TO15) | 03/30/21 | 04/05/21 | 04/05/21 | KCA | Y |
| CH92053 | Volatiles (TO15) | 03/30/21 | 04/05/21 | 04/05/21 | KCA | Y |
| CH92054 | Volatiles (TO15) | 04/02/21 | 04/06/21 | 04/06/21 | KCA | Y |
| CH92055 | Volatiles (TO15) | 03/30/21 | 04/05/21 | 04/05/21 | KCA | Y |
| CH92056 | Volatiles (TO15) | 03/30/21 | 04/05/21 | 04/05/21 | KCA | Y |
| CH92057 | Volatiles (TO15) | 03/30/21 | 04/05/21 | 04/05/21 | KCA | Y |
| CH92058 | Volatiles (TO15) | 04/02/21 | 04/06/21 | 04/06/21 | KCA | Y |
| CH92059 | Volatiles (TO15) | 04/02/21 | 04/06/21 | 04/06/21 | KCA | Y |
| CH92060 | Volatiles (TO15) | 03/30/21 | 04/06/21 | 04/06/21 | KCA | Y |
| CH92061 | Volatiles (TO15) | 03/30/21 | 04/06/21 | 04/06/21 | KCA | Y |
| CH92062 | Volatiles (TO15) | 03/30/21 | 04/06/21 | 04/06/21 | KCA | Y |
| CH92063 | Volatiles (TO15) | 03/30/21 | 04/06/21 | 04/06/21 | KCA | Y |
| CH92064 | Volatiles (TO15) | 03/30/21 | 04/06/21 | 04/06/21 | KCA | Y |

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

NY # 11301

# SDG Comments

May 05, 2021

SDG I.D.: GCH92051

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.

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

NY # 11301

# Sample Id Cross Reference

May 05, 2021

SDG I.D.: GCH92051

Project ID: 05-003-00 (101 WESTMORELAND AVE)

| Client Id | Lab Id | Matrix |
|---|---|---|
| SS-12 (5') | CH92051 | AIR |
| SS-7 | CH92052 | AIR |
| SS-5 | CH92053 | AIR |
| SS-10 (5') | CH92054 | AIR |
| OA-1 | CH92055 | AIR |
| SS-6 | CH92056 | AIR |
| SS-4 | CH92057 | AIR |
| SS-11 (5') | CH92058 | AIR |
| SS-9 (5') | CH92059 | AIR |
| SS-1 | CH92060 | AIR |
| SS-8 (4') | CH92061 | AIR |
| IA-1 | CH92062 | AIR |
| SS-2 | CH92063 | AIR |
| SS-3 | CH92064 | AIR |

PHOENIX

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

# Analysis Report

May 05, 2021

FOR: Attn: Mr. Fulya Toylular
G.C. Environmental, Inc.
22 Oak Street
Bayshore, NY 11706

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | AIR | Collected by: | FT | 04/01/21 | 15:50 |
| Location Code: | GC-ENV | Received by: | B | 04/05/21 | 14:35 |
| Rush Request: | Standard | Analyzed by: | see "By" below | | |
| P.O.#: | 11935 | | | | |
| Canister Id: | 469 | | | | |

## Laboratory Data

SDG ID: GCH92051
Phoenix ID: CH92051

Project ID: 05-003-00 (101 WESTMORELAND AVE)
Client ID: SS-12 (5')

| Parameter | ppbv Result | ppbv RL | LOD/ MDL | ug/m3 Result | ug/m3 RL | LOD/ MDL | Date/Time | By | Dilution | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Volatiles (TO15)** | | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | *0.146* | 0.146 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| 1,1,1-Trichloroethane | ND | *0.183* | 0.183 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,1,2,2-Tetrachloroethane | ND | *0.146* | 0.146 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,1,2-Trichloroethane | ND | *0.183* | 0.183 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,1-Dichloroethane | ND | *0.247* | 0.247 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,1-Dichloroethene | ND | *0.051* | 0.051 | ND | *0.20* | 0.20 | 04/06/21 | KCA | 1 | |
| 1,2,4-Trichlorobenzene | ND | *0.135* | 0.135 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2,4-Trimethylbenzene | ND | *0.204* | 0.204 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2-Dibromoethane(EDB) | ND | *0.130* | 0.130 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2-Dichlorobenzene | ND | *0.166* | 0.166 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2-Dichloroethane | ND | *0.247* | 0.247 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2-dichloropropane | ND | *0.217* | 0.217 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2-Dichlorotetrafluoroethane | ND | *0.143* | 0.143 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,3,5-Trimethylbenzene | ND | *0.204* | 0.204 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,3-Butadiene | ND | *0.452* | 0.452 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,3-Dichlorobenzene | ND | *0.166* | 0.166 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,4-Dichlorobenzene | ND | *0.166* | 0.166 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,4-Dioxane | ND | *0.278* | 0.278 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 2-Hexanone(MBK) | ND | *0.244* | 0.244 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| 4-Ethyltoluene | ND | *0.204* | 0.204 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| 4-Isopropyltoluene | ND | *0.182* | 0.182 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| 4-Methyl-2-pentanone(MIBK) | ND | *0.244* | 0.244 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Acetone | 33.6 | *0.421* | 0.421 | 79.8 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Acrylonitrile | ND | *0.461* | 0.461 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Benzene | 0.586 | *0.313* | 0.313 | 1.87 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Benzyl chloride | ND | *0.193* | 0.193 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |

Project ID: 05-003-00 (101 WESTMORELAND AVE) Phoenix I.D.: CH92051

Client ID: SS-12 (5')

| Parameter | ppbv Result | ppbv RL | LOD/ MDL | ug/m3 Result | ug/m3 RL | LOD/ MDL | Date/Time | By | Dilution | |
|---|---|---|---|---|---|---|---|---|---|---|
| Bromodichloromethane | ND | *0.149* | 0.149 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Bromoform | ND | *0.097* | 0.097 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Bromomethane | ND | *0.258* | 0.258 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Carbon Disulfide | ND | *0.321* | 0.321 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Carbon Tetrachloride | 0.075 | *0.032* | 0.032 | 0.47 | *0.20* | 0.20 | 04/06/21 | KCA | 1 | |
| Chlorobenzene | ND | *0.217* | 0.217 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Chloroethane | ND | *0.379* | 0.379 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Chloroform | ND | *0.205* | 0.205 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Chloromethane | 1.05 | *0.485* | 0.485 | 2.17 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Cis-1,2-Dichloroethene | ND | *0.051* | 0.051 | ND | *0.20* | 0.20 | 04/06/21 | KCA | 1 | |
| cis-1,3-Dichloropropene | ND | *0.221* | 0.221 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Cyclohexane | ND | *0.291* | 0.291 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Dibromochloromethane | ND | *0.118* | 0.118 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Dichlorodifluoromethane | 0.298 | *0.202* | 0.202 | 1.47 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Ethanol | 17.4 | *0.531* | 0.531 | 32.8 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| Ethyl acetate | ND | *0.278* | 0.278 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| Ethylbenzene | 0.725 | *0.230* | 0.230 | 3.15 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Heptane | 0.354 | *0.244* | 0.244 | 1.45 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Hexachlorobutadiene | ND | *0.094* | 0.094 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Hexane | 0.292 | *0.284* | 0.284 | 1.03 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Isopropylalcohol | 2.01 | *0.407* | 0.407 | 4.94 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Isopropylbenzene | ND | *0.204* | 0.204 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| m,p-Xylene | 1.09 | *0.230* | 0.230 | 4.73 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Methyl Ethyl Ketone | 4.21 | *0.339* | 0.339 | 12.4 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Methyl tert-butyl ether(MTBE) | ND | *0.278* | 0.278 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Methylene Chloride | ND | *0.864* | 0.864 | ND | *3.00* | 3.00 | 04/06/21 | KCA | 1 | |
| n-Butylbenzene | ND | *0.182* | 0.182 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| o-Xylene | 0.376 | *0.230* | 0.230 | 1.63 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Propylene | 2.49 | *0.581* | 0.581 | 4.28 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| sec-Butylbenzene | ND | *0.182* | 0.182 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| Styrene | 0.887 | *0.235* | 0.235 | 3.78 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Tetrachloroethene | 0.049 | *0.037* | 0.037 | 0.33 | *0.25* | 0.25 | 04/06/21 | KCA | 1 | |
| Tetrahydrofuran | 2.32 | *0.339* | 0.339 | 6.84 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| Toluene | 4.12 | *0.266* | 0.266 | 15.5 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Trans-1,2-Dichloroethene | ND | *0.252* | 0.252 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| trans-1,3-Dichloropropene | ND | *0.221* | 0.221 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Trichloroethene | ND | *0.037* | 0.037 | ND | *0.20* | 0.20 | 04/06/21 | KCA | 1 | |
| Trichlorofluoromethane | 0.235 | *0.178* | 0.178 | 1.32 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Trichlorotrifluoroethane | ND | *0.131* | 0.131 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Vinyl Chloride | ND | *0.078* | 0.078 | ND | *0.20* | 0.20 | 04/06/21 | KCA | 1 | |
| **QA/QC Surrogates/Internals** | | | | | | | | | | |
| % Bromofluorobenzene | 101 | *%* | % | 101 | *%* | % | 04/06/21 | KCA | 1 | |
| % IS-1,4-Difluorobenzene | 94 | *%* | % | 94 | *%* | % | 04/06/21 | KCA | 1 | |
| % IS-Bromochloromethane | 95 | *%* | % | 95 | *%* | % | 04/06/21 | KCA | 1 | |
| % IS-Chlorobenzene-d5 | 96 | *%* | % | 96 | *%* | % | 04/06/21 | KCA | 1 | |

Project ID: 05-003-00 (101 WESTMORELAND AVE) Phoenix I.D.: CH92051
Client ID: SS-12 (5')

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

1 = This parameter is not certified by 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**
**May 05, 2021**
**Reviewed and Released by: Greg Lawrence, Assistant Lab Director**

PHOENIX

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

# Analysis Report

May 05, 2021

FOR: Attn: Mr. Fulya Toylular
G.C. Environmental, Inc.
22 Oak Street
Bayshore, NY 11706

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | AIR | Collected by: | FT | 03/30/21 | 15:10 |
| Location Code: | GC-ENV | Received by: | B | 04/05/21 | 14:35 |
| Rush Request: | Standard | Analyzed by: | see "By" below | | |
| P.O.#: | 11935 | | | | |
| Canister Id: | 28567 | | | | |

## Laboratory Data

SDG ID: GCH92051
Phoenix ID: CH92052

Project ID: 05-003-00 (101 WESTMORELAND AVE)
Client ID: SS-7

| Parameter | ppbv Result | ppbv RL | LOD/ MDL | ug/m3 Result | ug/m3 RL | LOD/ MDL | Date/Time | By | Dilution | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Volatiles (TO15)** | | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | *0.146* | 0.146 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| 1,1,1-Trichloroethane | 25.1 | *0.183* | 0.183 | 137 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,1,2,2-Tetrachloroethane | ND | *0.146* | 0.146 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,1,2-Trichloroethane | ND | *0.183* | 0.183 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,1-Dichloroethane | ND | *0.247* | 0.247 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,1-Dichloroethene | ND | *0.051* | 0.051 | ND | *0.20* | 0.20 | 04/06/21 | KCA | 1 | |
| 1,2,4-Trichlorobenzene | ND | *0.135* | 0.135 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2,4-Trimethylbenzene | 0.226 | *0.204* | 0.204 | 1.11 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2-Dibromoethane(EDB) | ND | *0.130* | 0.130 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2-Dichlorobenzene | ND | *0.166* | 0.166 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2-Dichloroethane | ND | *0.247* | 0.247 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2-dichloropropane | ND | *0.217* | 0.217 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2-Dichlorotetrafluoroethane | ND | *0.143* | 0.143 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,3,5-Trimethylbenzene | ND | *0.204* | 0.204 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,3-Butadiene | ND | *0.452* | 0.452 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,3-Dichlorobenzene | ND | *0.166* | 0.166 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,4-Dichlorobenzene | ND | *0.166* | 0.166 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,4-Dioxane | ND | *0.278* | 0.278 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 2-Hexanone(MBK) | ND | *0.244* | 0.244 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| 4-Ethyltoluene | 0.270 | *0.204* | 0.204 | 1.33 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| 4-Isopropyltoluene | ND | *0.182* | 0.182 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| 4-Methyl-2-pentanone(MIBK) | ND | *0.244* | 0.244 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Acetone | 21.8 | *0.421* | 0.421 | 51.8 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Acrylonitrile | ND | *0.461* | 0.461 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Benzene | 0.632 | *0.313* | 0.313 | 2.02 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Benzyl chloride | ND | *0.193* | 0.193 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |

Project ID: 05-003-00 (101 WESTMORELAND AVE) Phoenix I.D.: CH92052

Client ID: SS-7

| Parameter | ppbv Result | ppbv RL | LOD/ MDL | ug/m3 Result | ug/m3 RL | LOD/ MDL | Date/Time | By | Dilution | |
|---|---|---|---|---|---|---|---|---|---|---|
| Bromodichloromethane | ND | *0.149* | 0.149 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Bromoform | ND | *0.097* | 0.097 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Bromomethane | ND | *0.258* | 0.258 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Carbon Disulfide | 5.65 | *0.321* | 0.321 | 17.6 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Carbon Tetrachloride | 0.062 | *0.032* | 0.032 | 0.39 | *0.20* | 0.20 | 04/06/21 | KCA | 1 | |
| Chlorobenzene | ND | *0.217* | 0.217 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Chloroethane | ND | *0.379* | 0.379 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Chloroform | ND | *0.205* | 0.205 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Chloromethane | ND | *0.485* | 0.485 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Cis-1,2-Dichloroethene | ND | *0.051* | 0.051 | ND | *0.20* | 0.20 | 04/06/21 | KCA | 1 | |
| cis-1,3-Dichloropropene | ND | *0.221* | 0.221 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Cyclohexane | 1.74 | *0.291* | 0.291 | 5.99 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Dibromochloromethane | ND | *0.118* | 0.118 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Dichlorodifluoromethane | 0.420 | *0.202* | 0.202 | 2.08 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Ethanol | 133 | *2.66* | 2.66 | 250 | *5.01* | 5.01 | 04/05/21 | KCA | 5 | 1 |
| Ethyl acetate | ND | *0.278* | 0.278 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| Ethylbenzene | 0.681 | *0.230* | 0.230 | 2.96 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Heptane | 2.55 | *0.244* | 0.244 | 10.4 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Hexachlorobutadiene | ND | *0.094* | 0.094 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Hexane | 2.00 | *0.284* | 0.284 | 7.05 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Isopropylalcohol | 5.20 | *0.407* | 0.407 | 12.8 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Isopropylbenzene | ND | *0.204* | 0.204 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| m,p-Xylene | 1.79 | *0.230* | 0.230 | 7.77 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Methyl Ethyl Ketone | 0.914 | *0.339* | 0.339 | 2.69 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Methyl tert-butyl ether(MTBE) | ND | *0.278* | 0.278 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Methylene Chloride | ND | *0.864* | 0.864 | ND | *3.00* | 3.00 | 04/06/21 | KCA | 1 | |
| n-Butylbenzene | ND | *0.182* | 0.182 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| o-Xylene | 0.698 | *0.230* | 0.230 | 3.03 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Propylene | ND | *0.581* | 0.581 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| sec-Butylbenzene | ND | *0.182* | 0.182 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| Styrene | ND | *0.235* | 0.235 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Tetrachloroethene | 61.2 | *0.184* | 0.184 | 415 | *1.25* | 1.25 | 04/05/21 | KCA | 5 | |
| Tetrahydrofuran | ND | *0.339* | 0.339 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| Toluene | 5.50 | *0.266* | 0.266 | 20.7 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Trans-1,2-Dichloroethene | ND | *0.252* | 0.252 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| trans-1,3-Dichloropropene | ND | *0.221* | 0.221 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Trichloroethene | 0.157 | *0.037* | 0.037 | 0.84 | *0.20* | 0.20 | 04/06/21 | KCA | 1 | |
| Trichlorofluoromethane | 0.232 | *0.178* | 0.178 | 1.30 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Trichlorotrifluoroethane | ND | *0.131* | 0.131 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Vinyl Chloride | ND | *0.078* | 0.078 | ND | *0.20* | 0.20 | 04/06/21 | KCA | 1 | |
| **QA/QC Surrogates/Internals** | | | | | | | | | | |
| % Bromofluorobenzene | 103 | *%* | % | 103 | *%* | % | 04/06/21 | KCA | 1 | |
| % IS-1,4-Difluorobenzene | 93 | *%* | % | 93 | *%* | % | 04/06/21 | KCA | 1 | |
| % IS-Bromochloromethane | 95 | *%* | % | 95 | *%* | % | 04/06/21 | KCA | 1 | |
| % IS-Chlorobenzene-d5 | 97 | *%* | % | 97 | *%* | % | 04/06/21 | KCA | 1 | |
| % Bromofluorobenzene (5x) | 101 | *%* | % | 101 | *%* | % | 04/05/21 | KCA | 5 | |
| % IS-1,4-Difluorobenzene (5x) | 74 | *%* | % | 74 | *%* | % | 04/05/21 | KCA | 5 | |
| % IS-Bromochloromethane (5x) | 70 | *%* | % | 70 | *%* | % | 04/05/21 | KCA | 5 | |
| % IS-Chlorobenzene-d5 (5x) | 72 | *%* | % | 72 | *%* | % | 04/05/21 | KCA | 5 | |

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

1 = This parameter is not certified by 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**

**May 05, 2021**

**Reviewed and Released by: Greg Lawrence, Assistant Lab Director**

PHOENIX

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

# Analysis Report

May 05, 2021

FOR: Attn: Mr. Fulya Toylular
G.C. Environmental, Inc.
22 Oak Street
Bayshore, NY 11706

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | AIR | Collected by: | FT | 03/30/21 | 13:36 |
| Location Code: | GC-ENV | Received by: | B | 04/05/21 | 14:35 |
| Rush Request: | Standard | Analyzed by: | see "By" below | | |
| P.O.#: | 11935 | | | | |
| Canister Id: | 13651 | | | | |

## Laboratory Data

SDG ID: GCH92051
Phoenix ID: CH92053

Project ID: 05-003-00 (101 WESTMORELAND AVE)
Client ID: SS-5

| Parameter | ppbv Result | ppbv RL | LOD/ MDL | ug/m3 Result | ug/m3 RL | LOD/ MDL | Date/Time | By | Dilution | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Volatiles (TO15)** | | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | *0.146* | 0.146 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| 1,1,1-Trichloroethane | 14.1 | *0.183* | 0.183 | 76.9 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,1,2,2-Tetrachloroethane | ND | *0.146* | 0.146 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,1,2-Trichloroethane | ND | *0.183* | 0.183 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,1-Dichloroethane | ND | *0.247* | 0.247 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,1-Dichloroethene | ND | *0.051* | 0.051 | ND | *0.20* | 0.20 | 04/06/21 | KCA | 1 | |
| 1,2,4-Trichlorobenzene | ND | *0.135* | 0.135 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2,4-Trimethylbenzene | ND | *0.204* | 0.204 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2-Dibromoethane(EDB) | ND | *0.130* | 0.130 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2-Dichlorobenzene | ND | *0.166* | 0.166 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2-Dichloroethane | ND | *0.247* | 0.247 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2-dichloropropane | ND | *0.217* | 0.217 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2-Dichlorotetrafluoroethane | ND | *0.143* | 0.143 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,3,5-Trimethylbenzene | ND | *0.204* | 0.204 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,3-Butadiene | ND | *0.452* | 0.452 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,3-Dichlorobenzene | ND | *0.166* | 0.166 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,4-Dichlorobenzene | ND | *0.166* | 0.166 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,4-Dioxane | 6.26 | *0.278* | 0.278 | 22.5 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 2-Hexanone(MBK) | ND | *0.244* | 0.244 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| 4-Ethyltoluene | ND | *0.204* | 0.204 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| 4-Isopropyltoluene | ND | *0.182* | 0.182 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| 4-Methyl-2-pentanone(MIBK) | ND | *0.244* | 0.244 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Acetone | 19.4 | *0.421* | 0.421 | 46.1 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Acrylonitrile | ND | *0.461* | 0.461 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Benzene | ND | *0.313* | 0.313 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Benzyl chloride | ND | *0.193* | 0.193 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |

Project ID: 05-003-00 (101 WESTMORELAND AVE) Phoenix I.D.: CH92053

Client ID: SS-5

| Parameter | ppbv Result | ppbv RL | LOD/ MDL | ug/m3 Result | ug/m3 RL | LOD/ MDL | Date/Time | By | Dilution | |
|---|---|---|---|---|---|---|---|---|---|---|
| Bromodichloromethane | ND | *0.149* | 0.149 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Bromoform | ND | *0.097* | 0.097 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Bromomethane | ND | *0.258* | 0.258 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Carbon Disulfide | ND | *0.321* | 0.321 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Carbon Tetrachloride | 0.065 | *0.032* | 0.032 | 0.41 | *0.20* | 0.20 | 04/06/21 | KCA | 1 | |
| Chlorobenzene | ND | *0.217* | 0.217 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Chloroethane | ND | *0.379* | 0.379 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Chloroform | ND | *0.205* | 0.205 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Chloromethane | ND | *0.485* | 0.485 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Cis-1,2-Dichloroethene | ND | *0.051* | 0.051 | ND | *0.20* | 0.20 | 04/06/21 | KCA | 1 | |
| cis-1,3-Dichloropropene | ND | *0.221* | 0.221 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Cyclohexane | ND | *0.291* | 0.291 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Dibromochloromethane | ND | *0.118* | 0.118 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Dichlorodifluoromethane | 0.450 | *0.202* | 0.202 | 2.22 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Ethanol | 452 | E *2.66* | 2.66 | 851 | *5.01* | 5.01 | 04/05/21 | KCA | 5 | 1 |
| Ethyl acetate | ND | *0.278* | 0.278 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| Ethylbenzene | 0.456 | *0.230* | 0.230 | 1.98 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Heptane | ND | *0.244* | 0.244 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Hexachlorobutadiene | ND | *0.094* | 0.094 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Hexane | ND | *0.284* | 0.284 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Isopropylalcohol | 16.6 | *0.407* | 0.407 | 40.8 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Isopropylbenzene | ND | *0.204* | 0.204 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| m,p-Xylene | 0.796 | *0.230* | 0.230 | 3.45 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Methyl Ethyl Ketone | 0.863 | *0.339* | 0.339 | 2.54 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Methyl tert-butyl ether(MTBE) | ND | *0.278* | 0.278 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Methylene Chloride | ND | *0.864* | 0.864 | ND | *3.00* | 3.00 | 04/06/21 | KCA | 1 | |
| n-Butylbenzene | ND | *0.182* | 0.182 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| o-Xylene | 0.289 | *0.230* | 0.230 | 1.25 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Propylene | ND | *0.581* | 0.581 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| sec-Butylbenzene | ND | *0.182* | 0.182 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| Styrene | ND | *0.235* | 0.235 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Tetrachloroethene | 2.34 | *0.037* | 0.037 | 15.9 | *0.25* | 0.25 | 04/06/21 | KCA | 1 | |
| Tetrahydrofuran | ND | *0.339* | 0.339 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| Toluene | 2.88 | *0.266* | 0.266 | 10.8 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Trans-1,2-Dichloroethene | ND | *0.252* | 0.252 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| trans-1,3-Dichloropropene | ND | *0.221* | 0.221 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Trichloroethene | ND | *0.037* | 0.037 | ND | *0.20* | 0.20 | 04/06/21 | KCA | 1 | |
| Trichlorofluoromethane | 0.199 | *0.178* | 0.178 | 1.12 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Trichlorotrifluoroethane | ND | *0.131* | 0.131 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Vinyl Chloride | ND | *0.078* | 0.078 | ND | *0.20* | 0.20 | 04/06/21 | KCA | 1 | |
| **QA/QC Surrogates/Internals** | | | | | | | | | | |
| % Bromofluorobenzene | 99 | % | % | 99 | % | % | 04/06/21 | KCA | 1 | |
| % IS-1,4-Difluorobenzene | 98 | % | % | 98 | % | % | 04/06/21 | KCA | 1 | |
| % IS-Bromochloromethane | 99 | % | % | 99 | % | % | 04/06/21 | KCA | 1 | |
| % IS-Chlorobenzene-d5 | 101 | % | % | 101 | % | % | 04/06/21 | KCA | 1 | |
| % Bromofluorobenzene (5x) | 98 | % | % | 98 | % | % | 04/05/21 | KCA | 5 | |
| % IS-1,4-Difluorobenzene (5x) | 72 | % | % | 72 | % | % | 04/05/21 | KCA | 5 | |
| % IS-Bromochloromethane (5x) | 71 | % | % | 71 | % | % | 04/05/21 | KCA | 5 | |
| % IS-Chlorobenzene-d5 (5x) | 71 | % | % | 71 | % | % | 04/05/21 | KCA | 5 | |

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

1 = This parameter is not certified by 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:

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**

**May 05, 2021**

**Reviewed and Released by: Greg Lawrence, Assistant Lab Director**

PHOENIX

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

# Analysis Report

May 05, 2021

FOR: Attn: Mr. Fulya Toylular
G.C. Environmental, Inc.
22 Oak Street
Bayshore, NY 11706

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | AIR | Collected by: | FT | 04/02/21 | 12:45 |
| Location Code: | GC-ENV | Received by: | B | 04/05/21 | 14:35 |
| Rush Request: | Standard | Analyzed by: | see "By" below | | |
| P.O.#: | 11935 | | | | |
| Canister Id: | 12864 | | | | |

## Laboratory Data

SDG ID: GCH92051
Phoenix ID: CH92054

Project ID: 05-003-00 (101 WESTMORELAND AVE)
Client ID: SS-10 (5')

| Parameter | ppbv Result | ppbv RL | LOD/ MDL | ug/m3 Result | ug/m3 RL | LOD/ MDL | Date/Time | By | Dilution | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Volatiles (TO15)** | | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | *0.146* | 0.146 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| 1,1,1-Trichloroethane | ND | *0.183* | 0.183 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,1,2,2-Tetrachloroethane | ND | *0.146* | 0.146 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,1,2-Trichloroethane | ND | *0.183* | 0.183 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,1-Dichloroethane | ND | *0.247* | 0.247 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,1-Dichloroethene | ND | *0.051* | 0.051 | ND | *0.20* | 0.20 | 04/06/21 | KCA | 1 | |
| 1,2,4-Trichlorobenzene | ND | *0.135* | 0.135 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2,4-Trimethylbenzene | ND | *0.204* | 0.204 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2-Dibromoethane(EDB) | ND | *0.130* | 0.130 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2-Dichlorobenzene | ND | *0.166* | 0.166 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2-Dichloroethane | ND | *0.247* | 0.247 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2-dichloropropane | ND | *0.217* | 0.217 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2-Dichlorotetrafluoroethane | ND | *0.143* | 0.143 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,3,5-Trimethylbenzene | ND | *0.204* | 0.204 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,3-Butadiene | ND | *0.452* | 0.452 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,3-Dichlorobenzene | ND | *0.166* | 0.166 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,4-Dichlorobenzene | ND | *0.166* | 0.166 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,4-Dioxane | ND | *0.278* | 0.278 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 2-Hexanone(MBK) | ND | *0.244* | 0.244 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| 4-Ethyltoluene | ND | *0.204* | 0.204 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| 4-Isopropyltoluene | ND | *0.182* | 0.182 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| 4-Methyl-2-pentanone(MIBK) | ND | *0.244* | 0.244 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Acetone | 17.7 | *0.421* | 0.421 | 42.0 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Acrylonitrile | ND | *0.461* | 0.461 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Benzene | 0.461 | *0.313* | 0.313 | 1.47 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Benzyl chloride | ND | *0.193* | 0.193 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |

Project ID: 05-003-00 (101 WESTMORELAND AVE) Phoenix I.D.: CH92054

Client ID: SS-10 (5')

| Parameter | ppbv Result | ppbv RL | LOD/ MDL | ug/m3 Result | ug/m3 RL | LOD/ MDL | Date/Time | By | Dilution | |
|---|---|---|---|---|---|---|---|---|---|---|
| Bromodichloromethane | ND | *0.149* | 0.149 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Bromoform | ND | *0.097* | 0.097 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Bromomethane | ND | *0.258* | 0.258 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Carbon Disulfide | ND | *0.321* | 0.321 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Carbon Tetrachloride | 0.050 | *0.032* | 0.032 | 0.31 | *0.20* | 0.20 | 04/06/21 | KCA | 1 | |
| Chlorobenzene | ND | *0.217* | 0.217 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Chloroethane | ND | *0.379* | 0.379 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Chloroform | ND | *0.205* | 0.205 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Chloromethane | ND | *0.485* | 0.485 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Cis-1,2-Dichloroethene | ND | *0.051* | 0.051 | ND | *0.20* | 0.20 | 04/06/21 | KCA | 1 | |
| cis-1,3-Dichloropropene | ND | *0.221* | 0.221 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Cyclohexane | ND | *0.291* | 0.291 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Dibromochloromethane | ND | *0.118* | 0.118 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Dichlorodifluoromethane | ND | *0.202* | 0.202 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Ethanol | 10.3 | *0.531* | 0.531 | 19.4 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| Ethyl acetate | ND | *0.278* | 0.278 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| Ethylbenzene | 0.609 | *0.230* | 0.230 | 2.64 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Heptane | 0.408 | *0.244* | 0.244 | 1.67 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Hexachlorobutadiene | ND | *0.094* | 0.094 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Hexane | 0.387 | *0.284* | 0.284 | 1.36 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Isopropylalcohol | ND | *0.407* | 0.407 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Isopropylbenzene | ND | *0.204* | 0.204 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| m,p-Xylene | 0.834 | *0.230* | 0.230 | 3.62 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Methyl Ethyl Ketone | 2.99 | *0.339* | 0.339 | 8.81 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Methyl tert-butyl ether(MTBE) | ND | *0.278* | 0.278 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Methylene Chloride | ND | *0.864* | 0.864 | ND | *3.00* | 3.00 | 04/06/21 | KCA | 1 | |
| n-Butylbenzene | ND | *0.182* | 0.182 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| o-Xylene | 0.278 | *0.230* | 0.230 | 1.21 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Propylene | 3.12 | *0.581* | 0.581 | 5.37 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| sec-Butylbenzene | ND | *0.182* | 0.182 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| Styrene | 0.599 | *0.235* | 0.235 | 2.55 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Tetrachloroethene | 0.082 | *0.037* | 0.037 | 0.56 | *0.25* | 0.25 | 04/06/21 | KCA | 1 | |
| Tetrahydrofuran | 1.97 | *0.339* | 0.339 | 5.81 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| Toluene | 3.47 | *0.266* | 0.266 | 13.1 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Trans-1,2-Dichloroethene | ND | *0.252* | 0.252 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| trans-1,3-Dichloropropene | ND | *0.221* | 0.221 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Trichloroethene | ND | *0.037* | 0.037 | ND | *0.20* | 0.20 | 04/06/21 | KCA | 1 | |
| Trichlorofluoromethane | ND | *0.178* | 0.178 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Trichlorotrifluoroethane | ND | *0.131* | 0.131 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Vinyl Chloride | ND | *0.078* | 0.078 | ND | *0.20* | 0.20 | 04/06/21 | KCA | 1 | |
| **QA/QC Surrogates/Internals** | | | | | | | | | | |
| % Bromofluorobenzene | 98 | *%* | % | 98 | *%* | % | 04/06/21 | KCA | 1 | |
| % IS-1,4-Difluorobenzene | 100 | *%* | % | 100 | *%* | % | 04/06/21 | KCA | 1 | |
| % IS-Bromochloromethane | 101 | *%* | % | 101 | *%* | % | 04/06/21 | KCA | 1 | |
| % IS-Chlorobenzene-d5 | 102 | *%* | % | 102 | *%* | % | 04/06/21 | KCA | 1 | |

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

1 = This parameter is not certified by 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**

**May 05, 2021**

**Reviewed and Released by: Greg Lawrence, Assistant Lab Director**

PHOENIX

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

# Analysis Report

May 05, 2021

FOR: Attn: Mr. Fulya Toylular
G.C. Environmental, Inc.
22 Oak Street
Bayshore, NY 11706

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | AIR | Collected by: | FT | 03/30/21 | 13:06 |
| Location Code: | GC-ENV | Received by: | B | 04/05/21 | 14:35 |
| Rush Request: | Standard | Analyzed by: | see "By" below | | |
| P.O.#: | 11935 | | | | |
| Canister Id: | 28603 | | | | |

## Laboratory Data

SDG ID: GCH92051
Phoenix ID: CH92055

Project ID: 05-003-00 (101 WESTMORELAND AVE)
Client ID: OA-1

| Parameter | ppbv Result | ppbv RL | LOD/ MDL | ug/m3 Result | ug/m3 RL | LOD/ MDL | Date/Time | By | Dilution | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Volatiles (TO15)** | | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | *0.146* | 0.146 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | 1 |
| 1,1,1-Trichloroethane | ND | *0.183* | 0.183 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| 1,1,2,2-Tetrachloroethane | ND | *0.146* | 0.146 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| 1,1,2-Trichloroethane | ND | *0.183* | 0.183 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| 1,1-Dichloroethane | ND | *0.247* | 0.247 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| 1,1-Dichloroethene | ND | *0.051* | 0.051 | ND | *0.20* | 0.20 | 04/05/21 | KCA | 1 | |
| 1,2,4-Trichlorobenzene | ND | *0.135* | 0.135 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| 1,2,4-Trimethylbenzene | ND | *0.204* | 0.204 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| 1,2-Dibromoethane(EDB) | ND | *0.130* | 0.130 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| 1,2-Dichlorobenzene | ND | *0.166* | 0.166 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| 1,2-Dichloroethane | ND | *0.247* | 0.247 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| 1,2-dichloropropane | ND | *0.217* | 0.217 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| 1,2-Dichlorotetrafluoroethane | ND | *0.143* | 0.143 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| 1,3,5-Trimethylbenzene | ND | *0.204* | 0.204 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| 1,3-Butadiene | ND | *0.452* | 0.452 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| 1,3-Dichlorobenzene | ND | *0.166* | 0.166 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| 1,4-Dichlorobenzene | ND | *0.166* | 0.166 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| 1,4-Dioxane | ND | *0.278* | 0.278 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| 2-Hexanone(MBK) | ND | *0.244* | 0.244 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | 1 |
| 4-Ethyltoluene | ND | *0.204* | 0.204 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | 1 |
| 4-Isopropyltoluene | ND | *0.182* | 0.182 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | 1 |
| 4-Methyl-2-pentanone(MIBK) | ND | *0.244* | 0.244 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| Acetone | 5.51 | *0.421* | 0.421 | 13.1 | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| Acrylonitrile | ND | *0.461* | 0.461 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| Benzene | ND | *0.313* | 0.313 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| Benzyl chloride | ND | *0.193* | 0.193 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |

Project ID: 05-003-00 (101 WESTMORELAND AVE) Phoenix I.D.: CH92055

Client ID: OA-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 | 04/05/21 | KCA | 1 | |
| Bromoform | ND | *0.097* | 0.097 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| Bromomethane | ND | *0.258* | 0.258 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| Carbon Disulfide | ND | *0.321* | 0.321 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| Carbon Tetrachloride | 0.083 | *0.032* | 0.032 | 0.52 | *0.20* | 0.20 | 04/05/21 | KCA | 1 | |
| Chlorobenzene | ND | *0.217* | 0.217 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| Chloroethane | ND | *0.379* | 0.379 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| Chloroform | ND | *0.205* | 0.205 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| Chloromethane | 0.619 | *0.485* | 0.485 | 1.28 | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| Cis-1,2-Dichloroethene | ND | *0.051* | 0.051 | ND | *0.20* | 0.20 | 04/05/21 | KCA | 1 | |
| cis-1,3-Dichloropropene | ND | *0.221* | 0.221 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| Cyclohexane | ND | *0.291* | 0.291 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| Dibromochloromethane | ND | *0.118* | 0.118 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| Dichlorodifluoromethane | 0.455 | *0.202* | 0.202 | 2.25 | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| Ethanol | 6.90 | *0.531* | 0.531 | 13.0 | *1.00* | 1.00 | 04/05/21 | KCA | 1 | 1 |
| Ethyl acetate | ND | *0.278* | 0.278 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | 1 |
| Ethylbenzene | ND | *0.230* | 0.230 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| Heptane | ND | *0.244* | 0.244 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| Hexachlorobutadiene | ND | *0.094* | 0.094 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| Hexane | ND | *0.284* | 0.284 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| Isopropylalcohol | 0.962 | *0.407* | 0.407 | 2.36 | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| Isopropylbenzene | ND | *0.204* | 0.204 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| m,p-Xylene | 0.451 | *0.230* | 0.230 | 1.96 | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| Methyl Ethyl Ketone | 0.468 | *0.339* | 0.339 | 1.38 | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| Methyl tert-butyl ether(MTBE) | ND | *0.278* | 0.278 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| Methylene Chloride | ND | *0.864* | 0.864 | ND | *3.00* | 3.00 | 04/05/21 | KCA | 1 | |
| n-Butylbenzene | ND | *0.182* | 0.182 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | 1 |
| o-Xylene | ND | *0.230* | 0.230 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| Propylene | ND | *0.581* | 0.581 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | 1 |
| sec-Butylbenzene | ND | *0.182* | 0.182 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | 1 |
| Styrene | ND | *0.235* | 0.235 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| Tetrachloroethene | ND | *0.037* | 0.037 | ND | *0.25* | 0.25 | 04/05/21 | KCA | 1 | |
| Tetrahydrofuran | ND | *0.339* | 0.339 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | 1 |
| Toluene | 2.01 | *0.266* | 0.266 | 7.57 | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| Trans-1,2-Dichloroethene | ND | *0.252* | 0.252 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| trans-1,3-Dichloropropene | ND | *0.221* | 0.221 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| Trichloroethene | ND | *0.037* | 0.037 | ND | *0.20* | 0.20 | 04/05/21 | KCA | 1 | |
| Trichlorofluoromethane | 0.258 | *0.178* | 0.178 | 1.45 | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| Trichlorotrifluoroethane | ND | *0.131* | 0.131 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| Vinyl Chloride | ND | *0.078* | 0.078 | ND | *0.20* | 0.20 | 04/05/21 | KCA | 1 | |
| **QA/QC Surrogates/Internals** | | | | | | | | | | |
| % Bromofluorobenzene | 102 | *%* | % | 102 | *%* | % | 04/05/21 | KCA | 1 | |
| % IS-1,4-Difluorobenzene | 74 | *%* | % | 74 | *%* | % | 04/05/21 | KCA | 1 | |
| % IS-Bromochloromethane | 72 | *%* | % | 72 | *%* | % | 04/05/21 | KCA | 1 | |
| % IS-Chlorobenzene-d5 | 72 | *%* | % | 72 | *%* | % | 04/05/21 | KCA | 1 | |

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

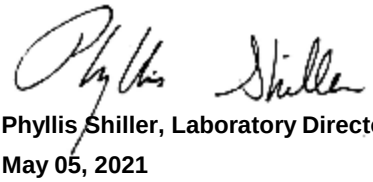
1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

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**

**May 05, 2021**

**Reviewed and Released by: Greg Lawrence, Assistant Lab Director**

PHOENIX

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

# Analysis Report

May 05, 2021

FOR: Attn: Mr. Fulya Toylular
G.C. Environmental, Inc.
22 Oak Street
Bayshore, NY 11706

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | AIR | Collected by: | FT | 03/30/21 | 13:42 |
| Location Code: | GC-ENV | Received by: | B | 04/05/21 | 14:35 |
| Rush Request: | Standard | Analyzed by: | see "By" below | | |
| P.O.#: | 11935 | | | | |
| Canister Id: | 28582 | | | | |

## Laboratory Data

SDG ID: GCH92051
Phoenix ID: CH92056

Project ID: 05-003-00 (101 WESTMORELAND AVE)
Client ID: SS-6

| Parameter | ppbv Result | ppbv RL | LOD/ MDL | ug/m3 Result | ug/m3 RL | LOD/ MDL | Date/Time | By | Dilution | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Volatiles (TO15)** | | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | *0.146* | 0.146 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| 1,1,1-Trichloroethane | 10.9 | *0.183* | 0.183 | 59.4 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,1,2,2-Tetrachloroethane | ND | *0.146* | 0.146 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,1,2-Trichloroethane | ND | *0.183* | 0.183 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,1-Dichloroethane | ND | *0.247* | 0.247 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,1-Dichloroethene | ND | *0.051* | 0.051 | ND | *0.20* | 0.20 | 04/06/21 | KCA | 1 | |
| 1,2,4-Trichlorobenzene | ND | *0.135* | 0.135 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2,4-Trimethylbenzene | 0.230 | *0.204* | 0.204 | 1.13 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2-Dibromoethane(EDB) | ND | *0.130* | 0.130 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2-Dichlorobenzene | ND | *0.166* | 0.166 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2-Dichloroethane | ND | *0.247* | 0.247 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2-dichloropropane | ND | *0.217* | 0.217 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2-Dichlorotetrafluoroethane | ND | *0.143* | 0.143 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,3,5-Trimethylbenzene | ND | *0.204* | 0.204 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,3-Butadiene | ND | *0.452* | 0.452 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,3-Dichlorobenzene | ND | *0.166* | 0.166 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,4-Dichlorobenzene | ND | *0.166* | 0.166 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,4-Dioxane | 1.46 | *0.278* | 0.278 | 5.26 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 2-Hexanone(MBK) | ND | *0.244* | 0.244 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| 4-Ethyltoluene | 0.209 | *0.204* | 0.204 | 1.03 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| 4-Isopropyltoluene | ND | *0.182* | 0.182 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| 4-Methyl-2-pentanone(MIBK) | ND | *0.244* | 0.244 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Acetone | 95.2 | *2.11* | 2.11 | 226 | *5.01* | 5.01 | 04/05/21 | KCA | 5 | |
| Acrylonitrile | ND | *0.461* | 0.461 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Benzene | ND | *0.313* | 0.313 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Benzyl chloride | ND | *0.193* | 0.193 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |

Project ID: 05-003-00 (101 WESTMORELAND AVE) Phoenix I.D.: CH92056

Client ID: SS-6

| Parameter | ppbv Result | ppbv RL | LOD/ MDL | ug/m3 Result | ug/m3 RL | LOD/ MDL | Date/Time | By | Dilution | |
|---|---|---|---|---|---|---|---|---|---|---|
| Bromodichloromethane | ND | *0.149* | 0.149 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Bromoform | ND | *0.097* | 0.097 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Bromomethane | ND | *0.258* | 0.258 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Carbon Disulfide | ND | *0.321* | 0.321 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Carbon Tetrachloride | 0.079 | *0.032* | 0.032 | 0.50 | *0.20* | 0.20 | 04/06/21 | KCA | 1 | |
| Chlorobenzene | ND | *0.217* | 0.217 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Chloroethane | ND | *0.379* | 0.379 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Chloroform | ND | *0.205* | 0.205 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Chloromethane | ND | *0.485* | 0.485 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Cis-1,2-Dichloroethene | ND | *0.051* | 0.051 | ND | *0.20* | 0.20 | 04/06/21 | KCA | 1 | |
| cis-1,3-Dichloropropene | ND | *0.221* | 0.221 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Cyclohexane | 0.449 | *0.291* | 0.291 | 1.54 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Dibromochloromethane | ND | *0.118* | 0.118 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Dichlorodifluoromethane | 0.396 | *0.202* | 0.202 | 1.96 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Ethanol | 393 | E *2.66* | 2.66 | 740 | *5.01* | 5.01 | 04/05/21 | KCA | 5 | 1 |
| Ethyl acetate | ND | *0.278* | 0.278 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| Ethylbenzene | 0.566 | *0.230* | 0.230 | 2.46 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Heptane | 0.398 | *0.244* | 0.244 | 1.63 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Hexachlorobutadiene | ND | *0.094* | 0.094 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Hexane | 0.515 | *0.284* | 0.284 | 1.81 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Isopropylalcohol | 38.5 | *0.407* | 0.407 | 94.6 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Isopropylbenzene | ND | *0.204* | 0.204 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| m,p-Xylene | 0.816 | *0.230* | 0.230 | 3.54 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Methyl Ethyl Ketone | 4.04 | *0.339* | 0.339 | 11.9 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Methyl tert-butyl ether(MTBE) | ND | *0.278* | 0.278 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Methylene Chloride | ND | *0.864* | 0.864 | ND | *3.00* | 3.00 | 04/06/21 | KCA | 1 | |
| n-Butylbenzene | ND | *0.182* | 0.182 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| o-Xylene | 0.349 | *0.230* | 0.230 | 1.51 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Propylene | 0.715 | *0.581* | 0.581 | 1.23 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| sec-Butylbenzene | ND | *0.182* | 0.182 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| Styrene | 0.257 | *0.235* | 0.235 | 1.09 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Tetrachloroethene | 16.3 | *0.037* | 0.037 | 110 | *0.25* | 0.25 | 04/06/21 | KCA | 1 | |
| Tetrahydrofuran | ND | *0.339* | 0.339 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| Toluene | 3.95 | *0.266* | 0.266 | 14.9 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Trans-1,2-Dichloroethene | ND | *0.252* | 0.252 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| trans-1,3-Dichloropropene | ND | *0.221* | 0.221 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Trichloroethene | ND | *0.037* | 0.037 | ND | *0.20* | 0.20 | 04/06/21 | KCA | 1 | |
| Trichlorofluoromethane | 0.229 | *0.178* | 0.178 | 1.29 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Trichlorotrifluoroethane | ND | *0.131* | 0.131 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Vinyl Chloride | ND | *0.078* | 0.078 | ND | *0.20* | 0.20 | 04/06/21 | KCA | 1 | |
| **QA/QC Surrogates/Internals** | | | | | | | | | | |
| % Bromofluorobenzene | 100 | % | % | 100 | % | % | 04/06/21 | KCA | 1 | |
| % IS-1,4-Difluorobenzene | 102 | % | % | 102 | % | % | 04/06/21 | KCA | 1 | |
| % IS-Bromochloromethane | 100 | % | % | 100 | % | % | 04/06/21 | KCA | 1 | |
| % IS-Chlorobenzene-d5 | 104 | % | % | 104 | % | % | 04/06/21 | KCA | 1 | |
| % Bromofluorobenzene (5x) | 101 | % | % | 101 | % | % | 04/05/21 | KCA | 5 | |
| % IS-1,4-Difluorobenzene (5x) | 72 | % | % | 72 | % | % | 04/05/21 | KCA | 5 | |
| % IS-Bromochloromethane (5x) | 71 | % | % | 71 | % | % | 04/05/21 | KCA | 5 | |
| % IS-Chlorobenzene-d5 (5x) | 71 | % | % | 71 | % | % | 04/05/21 | KCA | 5 | |

Project ID: 05-003-00 (101 WESTMORELAND AVE) Phoenix I.D.: CH92056

Client ID: SS-6

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

1 = This parameter is not certified by 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:

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**

**May 05, 2021**

**Reviewed and Released by: Greg Lawrence, Assistant Lab Director**

PHOENIX

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

# Analysis Report

May 05, 2021

FOR: Attn: Mr. Fulya Toylular
G.C. Environmental, Inc.
22 Oak Street
Bayshore, NY 11706

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | AIR | Collected by: | FT | 03/30/21 | 13:15 |
| Location Code: | GC-ENV | Received by: | B | 04/05/21 | 14:35 |
| Rush Request: | Standard | Analyzed by: | see "By" below | | |
| P.O.#: | 11935 | | | | |
| Canister Id: | 479 | | | | |

## Laboratory Data

SDG ID: GCH92051
Phoenix ID: CH92057

Project ID: 05-003-00 (101 WESTMORELAND AVE)
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 | *0.146* | 0.146 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| 1,1,1-Trichloroethane | 26.6 | *0.183* | 0.183 | 145 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,1,2,2-Tetrachloroethane | ND | *0.146* | 0.146 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,1,2-Trichloroethane | ND | *0.183* | 0.183 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,1-Dichloroethane | ND | *0.247* | 0.247 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,1-Dichloroethene | ND | *0.051* | 0.051 | ND | *0.20* | 0.20 | 04/06/21 | KCA | 1 | |
| 1,2,4-Trichlorobenzene | ND | *0.135* | 0.135 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2,4-Trimethylbenzene | 0.232 | *0.204* | 0.204 | 1.14 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2-Dibromoethane(EDB) | ND | *0.130* | 0.130 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2-Dichlorobenzene | ND | *0.166* | 0.166 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2-Dichloroethane | ND | *0.247* | 0.247 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2-dichloropropane | ND | *0.217* | 0.217 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2-Dichlorotetrafluoroethane | ND | *0.143* | 0.143 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,3,5-Trimethylbenzene | ND | *0.204* | 0.204 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,3-Butadiene | ND | *0.452* | 0.452 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,3-Dichlorobenzene | ND | *0.166* | 0.166 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,4-Dichlorobenzene | ND | *0.166* | 0.166 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,4-Dioxane | ND | *0.278* | 0.278 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 2-Hexanone(MBK) | ND | *0.244* | 0.244 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| 4-Ethyltoluene | 0.264 | *0.204* | 0.204 | 1.30 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| 4-Isopropyltoluene | ND | *0.182* | 0.182 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| 4-Methyl-2-pentanone(MIBK) | ND | *0.244* | 0.244 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Acetone | 30.3 | *0.421* | 0.421 | 71.9 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Acrylonitrile | ND | *0.461* | 0.461 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Benzene | 0.407 | *0.313* | 0.313 | 1.30 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Benzyl chloride | ND | *0.193* | 0.193 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |

Project ID: 05-003-00 (101 WESTMORELAND AVE) Phoenix I.D.: CH92057

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 | *0.149* | 0.149 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Bromoform | ND | *0.097* | 0.097 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Bromomethane | ND | *0.258* | 0.258 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Carbon Disulfide | 3.58 | *0.321* | 0.321 | 11.1 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Carbon Tetrachloride | 0.055 | *0.032* | 0.032 | 0.35 | *0.20* | 0.20 | 04/06/21 | KCA | 1 | |
| Chlorobenzene | ND | *0.217* | 0.217 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Chloroethane | ND | *0.379* | 0.379 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Chloroform | ND | *0.205* | 0.205 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Chloromethane | ND | *0.485* | 0.485 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Cis-1,2-Dichloroethene | ND | *0.051* | 0.051 | ND | *0.20* | 0.20 | 04/06/21 | KCA | 1 | |
| cis-1,3-Dichloropropene | ND | *0.221* | 0.221 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Cyclohexane | 3.32 | *0.291* | 0.291 | 11.4 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Dibromochloromethane | ND | *0.118* | 0.118 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Dichlorodifluoromethane | 0.443 | *0.202* | 0.202 | 2.19 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Ethanol | 176 | *2.66* | 2.66 | 331 | *5.01* | 5.01 | 04/05/21 | KCA | 5 | 1 |
| Ethyl acetate | ND | *0.278* | 0.278 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| Ethylbenzene | 0.519 | *0.230* | 0.230 | 2.25 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Heptane | 6.28 | *0.244* | 0.244 | 25.7 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Hexachlorobutadiene | ND | *0.094* | 0.094 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Hexane | 3.65 | *0.284* | 0.284 | 12.9 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Isopropylalcohol | 11.0 | *0.407* | 0.407 | 27.0 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Isopropylbenzene | ND | *0.204* | 0.204 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| m,p-Xylene | 1.11 | *0.230* | 0.230 | 4.82 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Methyl Ethyl Ketone | 0.963 | *0.339* | 0.339 | 2.84 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Methyl tert-butyl ether(MTBE) | ND | *0.278* | 0.278 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Methylene Chloride | ND | *0.864* | 0.864 | ND | *3.00* | 3.00 | 04/06/21 | KCA | 1 | |
| n-Butylbenzene | ND | *0.182* | 0.182 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| o-Xylene | 0.458 | *0.230* | 0.230 | 1.99 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Propylene | ND | *0.581* | 0.581 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| sec-Butylbenzene | ND | *0.182* | 0.182 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| Styrene | 0.285 | *0.235* | 0.235 | 1.21 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Tetrachloroethene | 54.3 | *0.184* | 0.184 | 368 | *1.25* | 1.25 | 04/05/21 | KCA | 5 | |
| Tetrahydrofuran | ND | *0.339* | 0.339 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| Toluene | 3.36 | *0.266* | 0.266 | 12.7 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Trans-1,2-Dichloroethene | ND | *0.252* | 0.252 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| trans-1,3-Dichloropropene | ND | *0.221* | 0.221 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Trichloroethene | 0.130 | *0.037* | 0.037 | 0.70 | *0.20* | 0.20 | 04/06/21 | KCA | 1 | |
| Trichlorofluoromethane | 0.195 | *0.178* | 0.178 | 1.09 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Trichlorotrifluoroethane | ND | *0.131* | 0.131 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Vinyl Chloride | ND | *0.078* | 0.078 | ND | *0.20* | 0.20 | 04/06/21 | KCA | 1 | |
| **QA/QC Surrogates/Internals** | | | | | | | | | | |
| % Bromofluorobenzene | 100 | % | % | 100 | % | % | 04/06/21 | KCA | 1 | |
| % IS-1,4-Difluorobenzene | 106 | % | % | 106 | % | % | 04/06/21 | KCA | 1 | |
| % IS-Bromochloromethane | 105 | % | % | 105 | % | % | 04/06/21 | KCA | 1 | |
| % IS-Chlorobenzene-d5 | 111 | % | % | 111 | % | % | 04/06/21 | KCA | 1 | |
| % Bromofluorobenzene (5x) | 100 | % | % | 100 | % | % | 04/05/21 | KCA | 5 | |
| % IS-1,4-Difluorobenzene (5x) | 72 | % | % | 72 | % | % | 04/05/21 | KCA | 5 | |
| % IS-Bromochloromethane (5x) | 71 | % | % | 71 | % | % | 04/05/21 | KCA | 5 | |
| % IS-Chlorobenzene-d5 (5x) | 72 | % | % | 72 | % | % | 04/05/21 | KCA | 5 | |

Project ID: 05-003-00 (101 WESTMORELAND AVE) Phoenix I.D.: CH92057

Client ID: SS-4

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

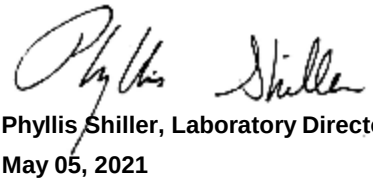
1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

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**

**May 05, 2021**

**Reviewed and Released by: Greg Lawrence, Assistant Lab Director**

PHOENIX

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

# Analysis Report

May 05, 2021

FOR: Attn: Mr. Fulya Toylular
G.C. Environmental, Inc.
22 Oak Street
Bayshore, NY 11706

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | AIR | Collected by: | FT | 04/02/21 | 13:40 |
| Location Code: | GC-ENV | Received by: | B | 04/05/21 | 14:35 |
| Rush Request: | Standard | Analyzed by: | see "By" below | | |
| P.O.#: | 11935 | | | | |
| Canister Id: | 484 | | | | |

## Laboratory Data

SDG ID: GCH92051
Phoenix ID: CH92058

Project ID: 05-003-00 (101 WESTMORELAND AVE)
Client ID: SS-11 (5')

| Parameter | ppbv Result | ppbv RL | LOD/ MDL | ug/m3 Result | ug/m3 RL | LOD/ MDL | Date/Time | By | Dilution | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Volatiles (TO15)** | | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | *0.146* | 0.146 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| 1,1,1-Trichloroethane | 29.5 | *0.183* | 0.183 | 161 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,1,2,2-Tetrachloroethane | ND | *0.146* | 0.146 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,1,2-Trichloroethane | ND | *0.183* | 0.183 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,1-Dichloroethane | ND | *0.247* | 0.247 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,1-Dichloroethene | 0.452 | *0.051* | 0.051 | 1.79 | *0.20* | 0.20 | 04/06/21 | KCA | 1 | |
| 1,2,4-Trichlorobenzene | ND | *0.135* | 0.135 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2,4-Trimethylbenzene | ND | *0.204* | 0.204 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2-Dibromoethane(EDB) | ND | *0.130* | 0.130 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2-Dichlorobenzene | ND | *0.166* | 0.166 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2-Dichloroethane | ND | *0.247* | 0.247 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2-dichloropropane | ND | *0.217* | 0.217 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2-Dichlorotetrafluoroethane | ND | *0.143* | 0.143 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,3,5-Trimethylbenzene | ND | *0.204* | 0.204 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,3-Butadiene | 4.63 | *0.452* | 0.452 | 10.2 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,3-Dichlorobenzene | ND | *0.166* | 0.166 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,4-Dichlorobenzene | ND | *0.166* | 0.166 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,4-Dioxane | ND | *0.278* | 0.278 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 2-Hexanone(MBK) | ND | *0.244* | 0.244 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| 4-Ethyltoluene | ND | *0.204* | 0.204 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| 4-Isopropyltoluene | ND | *0.182* | 0.182 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| 4-Methyl-2-pentanone(MIBK) | ND | *0.244* | 0.244 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Acetone | 29.5 | *0.421* | 0.421 | 70.0 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Acrylonitrile | ND | *0.461* | 0.461 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Benzene | 1.46 | *0.313* | 0.313 | 4.66 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Benzyl chloride | ND | *0.193* | 0.193 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |

Project ID: 05-003-00 (101 WESTMORELAND AVE) Phoenix I.D.: CH92058

Client ID: SS-11 (5')

| Parameter | ppbv Result | ppbv RL | LOD/ MDL | ug/m3 Result | ug/m3 RL | LOD/ MDL | Date/Time | By | Dilution | |
|---|---|---|---|---|---|---|---|---|---|---|
| Bromodichloromethane | ND | *0.149* | 0.149 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Bromoform | ND | *0.097* | 0.097 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Bromomethane | ND | *0.258* | 0.258 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Carbon Disulfide | 0.712 | *0.321* | 0.321 | 2.22 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Carbon Tetrachloride | 0.060 | *0.032* | 0.032 | 0.38 | *0.20* | 0.20 | 04/06/21 | KCA | 1 | |
| Chlorobenzene | ND | *0.217* | 0.217 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Chloroethane | ND | *0.379* | 0.379 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Chloroform | 1.02 | *0.205* | 0.205 | 4.98 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Chloromethane | ND | *0.485* | 0.485 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Cis-1,2-Dichloroethene | ND | *0.051* | 0.051 | ND | *0.20* | 0.20 | 04/06/21 | KCA | 1 | |
| cis-1,3-Dichloropropene | ND | *0.221* | 0.221 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Cyclohexane | 0.850 | *0.291* | 0.291 | 2.92 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Dibromochloromethane | ND | *0.118* | 0.118 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Dichlorodifluoromethane | 0.381 | *0.202* | 0.202 | 1.88 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Ethanol | 5.83 | *0.531* | 0.531 | 11.0 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| Ethyl acetate | ND | *0.278* | 0.278 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| Ethylbenzene | 0.632 | *0.230* | 0.230 | 2.74 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Heptane | 1.30 | *0.244* | 0.244 | 5.32 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Hexachlorobutadiene | ND | *0.094* | 0.094 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Hexane | 1.51 | *0.284* | 0.284 | 5.32 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Isopropylalcohol | ND | *0.407* | 0.407 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Isopropylbenzene | ND | *0.204* | 0.204 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| m,p-Xylene | 0.730 | *0.230* | 0.230 | 3.17 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Methyl Ethyl Ketone | 5.86 | *0.339* | 0.339 | 17.3 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Methyl tert-butyl ether(MTBE) | ND | *0.278* | 0.278 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Methylene Chloride | ND | *0.864* | 0.864 | ND | *3.00* | 3.00 | 04/06/21 | KCA | 1 | |
| n-Butylbenzene | ND | *0.182* | 0.182 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| o-Xylene | 0.242 | *0.230* | 0.230 | 1.05 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Propylene | 56.3 | *2.91* | 2.91 | 96.8 | *5.01* | 5.01 | 04/06/21 | KCA | 5 | 1 |
| sec-Butylbenzene | ND | *0.182* | 0.182 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| Styrene | 0.643 | *0.235* | 0.235 | 2.74 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Tetrachloroethene | 7.60 | *0.037* | 0.037 | 51.5 | *0.25* | 0.25 | 04/06/21 | KCA | 1 | |
| Tetrahydrofuran | ND | *0.339* | 0.339 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| Toluene | 3.49 | *0.266* | 0.266 | 13.1 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Trans-1,2-Dichloroethene | ND | *0.252* | 0.252 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| trans-1,3-Dichloropropene | ND | *0.221* | 0.221 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Trichloroethene | 0.100 | *0.037* | 0.037 | 0.54 | *0.20* | 0.20 | 04/06/21 | KCA | 1 | |
| Trichlorofluoromethane | ND | *0.178* | 0.178 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Trichlorotrifluoroethane | 0.461 | *0.131* | 0.131 | 3.53 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Vinyl Chloride | ND | *0.078* | 0.078 | ND | *0.20* | 0.20 | 04/06/21 | KCA | 1 | |
| **QA/QC Surrogates/Internals** | | | | | | | | | | |
| % Bromofluorobenzene | 98 | % | % | 98 | % | % | 04/06/21 | KCA | 1 | |
| % IS-1,4-Difluorobenzene | 111 | % | % | 111 | % | % | 04/06/21 | KCA | 1 | |
| % IS-Bromochloromethane | 111 | % | % | 111 | % | % | 04/06/21 | KCA | 1 | |
| % IS-Chlorobenzene-d5 | 114 | % | % | 114 | % | % | 04/06/21 | KCA | 1 | |
| % Bromofluorobenzene (5x) | 101 | % | % | 101 | % | % | 04/06/21 | KCA | 5 | |
| % IS-1,4-Difluorobenzene (5x) | 71 | % | % | 71 | % | % | 04/06/21 | KCA | 5 | |
| % IS-Bromochloromethane (5x) | 70 | % | % | 70 | % | % | 04/06/21 | KCA | 5 | |
| % IS-Chlorobenzene-d5 (5x) | 69 | % | % | 69 | % | % | 04/06/21 | KCA | 5 | |

Project ID: 05-003-00 (101 WESTMORELAND AVE) Phoenix I.D.: CH92058
Client ID: SS-11 (5')

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

1 = This parameter is not certified by 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**

**May 05, 2021**

**Reviewed and Released by: Greg Lawrence, Assistant Lab Director**

PHOENIX

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

# Analysis Report

May 05, 2021

FOR: Attn: Mr. Fulya Toylular
G.C. Environmental, Inc.
22 Oak Street
Bayshore, NY 11706

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | AIR | Collected by: | FT | 04/02/21 | 12:15 |
| Location Code: | GC-ENV | Received by: | B | 04/05/21 | 14:35 |
| Rush Request: | Standard | Analyzed by: | see "By" below | | |
| P.O.#: | 11935 | | | | |
| Canister Id: | 470 | | | | |

## Laboratory Data

SDG ID: GCH92051
Phoenix ID: CH92059

Project ID: 05-003-00 (101 WESTMORELAND AVE)
Client ID: SS-9 (5')

| Parameter | ppbv Result | ppbv RL | LOD/ MDL | ug/m3 Result | ug/m3 RL | LOD/ MDL | Date/Time | By | Dilution | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Volatiles (TO15)** | | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | *0.146* | 0.146 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| 1,1,1-Trichloroethane | ND | *0.183* | 0.183 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,1,2,2-Tetrachloroethane | ND | *0.146* | 0.146 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,1,2-Trichloroethane | ND | *0.183* | 0.183 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,1-Dichloroethane | ND | *0.247* | 0.247 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,1-Dichloroethene | ND | *0.051* | 0.051 | ND | *0.20* | 0.20 | 04/06/21 | KCA | 1 | |
| 1,2,4-Trichlorobenzene | ND | *0.135* | 0.135 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2,4-Trimethylbenzene | ND | *0.204* | 0.204 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2-Dibromoethane(EDB) | ND | *0.130* | 0.130 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2-Dichlorobenzene | ND | *0.166* | 0.166 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2-Dichloroethane | ND | *0.247* | 0.247 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2-dichloropropane | ND | *0.217* | 0.217 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2-Dichlorotetrafluoroethane | ND | *0.143* | 0.143 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,3,5-Trimethylbenzene | ND | *0.204* | 0.204 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,3-Butadiene | ND | *0.452* | 0.452 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,3-Dichlorobenzene | ND | *0.166* | 0.166 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,4-Dichlorobenzene | ND | *0.166* | 0.166 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,4-Dioxane | ND | *0.278* | 0.278 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 2-Hexanone(MBK) | ND | *0.244* | 0.244 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| 4-Ethyltoluene | 0.212 | *0.204* | 0.204 | 1.04 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| 4-Isopropyltoluene | ND | *0.182* | 0.182 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| 4-Methyl-2-pentanone(MIBK) | ND | *0.244* | 0.244 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Acetone | 14.5 | *0.421* | 0.421 | 34.4 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Acrylonitrile | ND | *0.461* | 0.461 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Benzene | ND | *0.313* | 0.313 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Benzyl chloride | ND | *0.193* | 0.193 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |

Project ID: 05-003-00 (101 WESTMORELAND AVE) Phoenix I.D.: CH92059

Client ID: SS-9 (5')

| Parameter | ppbv Result | ppbv RL | LOD/ MDL | ug/m3 Result | ug/m3 RL | LOD/ MDL | Date/Time | By | Dilution | |
|---|---|---|---|---|---|---|---|---|---|---|
| Bromodichloromethane | ND | *0.149* | 0.149 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Bromoform | ND | *0.097* | 0.097 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Bromomethane | ND | *0.258* | 0.258 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Carbon Disulfide | ND | *0.321* | 0.321 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Carbon Tetrachloride | 0.069 | *0.032* | 0.032 | 0.43 | *0.20* | 0.20 | 04/06/21 | KCA | 1 | |
| Chlorobenzene | ND | *0.217* | 0.217 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Chloroethane | ND | *0.379* | 0.379 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Chloroform | ND | *0.205* | 0.205 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Chloromethane | 0.539 | *0.485* | 0.485 | 1.11 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Cis-1,2-Dichloroethene | ND | *0.051* | 0.051 | ND | *0.20* | 0.20 | 04/06/21 | KCA | 1 | |
| cis-1,3-Dichloropropene | ND | *0.221* | 0.221 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Cyclohexane | ND | *0.291* | 0.291 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Dibromochloromethane | ND | *0.118* | 0.118 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Dichlorodifluoromethane | 0.274 | *0.202* | 0.202 | 1.35 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Ethanol | 9.71 | *0.531* | 0.531 | 18.3 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| Ethyl acetate | ND | *0.278* | 0.278 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| Ethylbenzene | 0.795 | *0.230* | 0.230 | 3.45 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Heptane | 0.336 | *0.244* | 0.244 | 1.38 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Hexachlorobutadiene | ND | *0.094* | 0.094 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Hexane | ND | *0.284* | 0.284 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Isopropylalcohol | 1.11 | *0.407* | 0.407 | 2.73 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Isopropylbenzene | ND | *0.204* | 0.204 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| m,p-Xylene | 1.43 | *0.230* | 0.230 | 6.21 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Methyl Ethyl Ketone | 2.80 | *0.339* | 0.339 | 8.25 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Methyl tert-butyl ether(MTBE) | ND | *0.278* | 0.278 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Methylene Chloride | ND | *0.864* | 0.864 | ND | *3.00* | 3.00 | 04/06/21 | KCA | 1 | |
| n-Butylbenzene | ND | *0.182* | 0.182 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| o-Xylene | 0.483 | *0.230* | 0.230 | 2.10 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Propylene | ND | *0.581* | 0.581 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| sec-Butylbenzene | ND | *0.182* | 0.182 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| Styrene | 0.970 | *0.235* | 0.235 | 4.13 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Tetrachloroethene | 0.475 | *0.037* | 0.037 | 3.22 | *0.25* | 0.25 | 04/06/21 | KCA | 1 | |
| Tetrahydrofuran | 2.58 | *0.339* | 0.339 | 7.60 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| Toluene | 3.96 | *0.266* | 0.266 | 14.9 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Trans-1,2-Dichloroethene | ND | *0.252* | 0.252 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| trans-1,3-Dichloropropene | ND | *0.221* | 0.221 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Trichloroethene | ND | *0.037* | 0.037 | ND | *0.20* | 0.20 | 04/06/21 | KCA | 1 | |
| Trichlorofluoromethane | 0.196 | *0.178* | 0.178 | 1.10 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Trichlorotrifluoroethane | ND | *0.131* | 0.131 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Vinyl Chloride | ND | *0.078* | 0.078 | ND | *0.20* | 0.20 | 04/06/21 | KCA | 1 | |
| **QA/QC Surrogates/Internals** | | | | | | | | | | |
| % Bromofluorobenzene | 100 | *%* | % | 100 | *%* | % | 04/06/21 | KCA | 1 | |
| % IS-1,4-Difluorobenzene | 108 | *%* | % | 108 | *%* | % | 04/06/21 | KCA | 1 | |
| % IS-Bromochloromethane | 109 | *%* | % | 109 | *%* | % | 04/06/21 | KCA | 1 | |
| % IS-Chlorobenzene-d5 | 111 | *%* | % | 111 | *%* | % | 04/06/21 | KCA | 1 | |

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

1 = This parameter is not certified by 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**

**May 05, 2021**

**Reviewed and Released by: Greg Lawrence, Assistant Lab Director**

PHOENIX

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

# Analysis Report

May 05, 2021

FOR: Attn: Mr. Fulya Toylular
G.C. Environmental, Inc.
22 Oak Street
Bayshore, NY 11706

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | AIR | Collected by: | FT | 03/30/21 | 12:35 |
| Location Code: | GC-ENV | Received by: | B | 04/05/21 | 14:35 |
| Rush Request: | Standard | Analyzed by: | see "By" below | | |
| P.O.#: | 11935 | | | | |
| Canister Id: | 18111 | | | | |

## Laboratory Data

SDG ID: GCH92051
Phoenix ID: CH92060

Project ID: 05-003-00 (101 WESTMORELAND AVE)
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 | *0.146* | 0.146 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| 1,1,1-Trichloroethane | 3.15 | *0.183* | 0.183 | 17.2 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,1,2,2-Tetrachloroethane | ND | *0.146* | 0.146 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,1,2-Trichloroethane | ND | *0.183* | 0.183 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,1-Dichloroethane | ND | *0.247* | 0.247 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,1-Dichloroethene | ND | *0.051* | 0.051 | ND | *0.20* | 0.20 | 04/06/21 | KCA | 1 | |
| 1,2,4-Trichlorobenzene | ND | *0.135* | 0.135 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2,4-Trimethylbenzene | ND | *0.204* | 0.204 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2-Dibromoethane(EDB) | ND | *0.130* | 0.130 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2-Dichlorobenzene | ND | *0.166* | 0.166 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2-Dichloroethane | ND | *0.247* | 0.247 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2-dichloropropane | ND | *0.217* | 0.217 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2-Dichlorotetrafluoroethane | ND | *0.143* | 0.143 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,3,5-Trimethylbenzene | ND | *0.204* | 0.204 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,3-Butadiene | ND | *0.452* | 0.452 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,3-Dichlorobenzene | ND | *0.166* | 0.166 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,4-Dichlorobenzene | ND | *0.166* | 0.166 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,4-Dioxane | ND | *0.278* | 0.278 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 2-Hexanone(MBK) | ND | *0.244* | 0.244 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| 4-Ethyltoluene | ND | *0.204* | 0.204 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| 4-Isopropyltoluene | ND | *0.182* | 0.182 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| 4-Methyl-2-pentanone(MIBK) | ND | *0.244* | 0.244 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Acetone | 5.11 | *0.421* | 0.421 | 12.1 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Acrylonitrile | ND | *0.461* | 0.461 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Benzene | 0.336 | *0.313* | 0.313 | 1.07 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Benzyl chloride | ND | *0.193* | 0.193 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |

Project ID: 05-003-00 (101 WESTMORELAND AVE) Phoenix I.D.: CH92060

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 | *0.149* | 0.149 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Bromoform | ND | *0.097* | 0.097 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Bromomethane | ND | *0.258* | 0.258 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Carbon Disulfide | 1.83 | *0.321* | 0.321 | 5.69 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Carbon Tetrachloride | 0.043 | *0.032* | 0.032 | 0.27 | *0.20* | 0.20 | 04/06/21 | KCA | 1 | |
| Chlorobenzene | ND | *0.217* | 0.217 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Chloroethane | ND | *0.379* | 0.379 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Chloroform | ND | *0.205* | 0.205 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Chloromethane | ND | *0.485* | 0.485 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Cis-1,2-Dichloroethene | 0.055 | *0.051* | 0.051 | 0.22 | *0.20* | 0.20 | 04/06/21 | KCA | 1 | |
| cis-1,3-Dichloropropene | ND | *0.221* | 0.221 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Cyclohexane | ND | *0.291* | 0.291 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Dibromochloromethane | ND | *0.118* | 0.118 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Dichlorodifluoromethane | ND | *0.202* | 0.202 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Ethanol | 5.38 | *0.531* | 0.531 | 10.1 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| Ethyl acetate | ND | *0.278* | 0.278 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| Ethylbenzene | ND | *0.230* | 0.230 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Heptane | ND | *0.244* | 0.244 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Hexachlorobutadiene | ND | *0.094* | 0.094 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Hexane | 0.333 | *0.284* | 0.284 | 1.17 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Isopropylalcohol | 3.88 | *0.407* | 0.407 | 9.5 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Isopropylbenzene | ND | *0.204* | 0.204 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| m,p-Xylene | 0.383 | *0.230* | 0.230 | 1.66 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Methyl Ethyl Ketone | 0.358 | *0.339* | 0.339 | 1.06 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Methyl tert-butyl ether(MTBE) | ND | *0.278* | 0.278 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Methylene Chloride | ND | *0.864* | 0.864 | ND | *3.00* | 3.00 | 04/06/21 | KCA | 1 | |
| n-Butylbenzene | ND | *0.182* | 0.182 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| o-Xylene | ND | *0.230* | 0.230 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Propylene | ND | *0.581* | 0.581 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| sec-Butylbenzene | ND | *0.182* | 0.182 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| Styrene | 0.336 | *0.235* | 0.235 | 1.43 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Tetrachloroethene | 4.72 | *0.037* | 0.037 | 32.0 | *0.25* | 0.25 | 04/06/21 | KCA | 1 | |
| Tetrahydrofuran | ND | *0.339* | 0.339 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| Toluene | 1.34 | *0.266* | 0.266 | 5.05 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Trans-1,2-Dichloroethene | ND | *0.252* | 0.252 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| trans-1,3-Dichloropropene | ND | *0.221* | 0.221 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Trichloroethene | 0.067 | *0.037* | 0.037 | 0.36 | *0.20* | 0.20 | 04/06/21 | KCA | 1 | |
| Trichlorofluoromethane | ND | *0.178* | 0.178 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Trichlorotrifluoroethane | ND | *0.131* | 0.131 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Vinyl Chloride | ND | *0.078* | 0.078 | ND | *0.20* | 0.20 | 04/06/21 | KCA | 1 | |
| **QA/QC Surrogates/Internals** | | | | | | | | | | |
| % Bromofluorobenzene | 97 | % | % | 97 | % | % | 04/06/21 | KCA | 1 | |
| % IS-1,4-Difluorobenzene | 110 | % | % | 110 | % | % | 04/06/21 | KCA | 1 | |
| % IS-Bromochloromethane | 111 | % | % | 111 | % | % | 04/06/21 | KCA | 1 | |
| % IS-Chlorobenzene-d5 | 112 | % | % | 112 | % | % | 04/06/21 | KCA | 1 | |

Project ID: 05-003-00 (101 WESTMORELAND AVE) Phoenix I.D.: CH92060

Client ID: SS-1

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

1 = This parameter is not certified by 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**

**May 05, 2021**

**Reviewed and Released by: Greg Lawrence, Assistant Lab Director**

PHOENIX

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

# Analysis Report

May 05, 2021

FOR: Attn: Mr. Fulya Toylular
G.C. Environmental, Inc.
22 Oak Street
Bayshore, NY 11706

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | AIR | Collected by: | FT | 03/30/21 | 15:50 |
| Location Code: | GC-ENV | Received by: | B | 04/05/21 | 14:35 |
| Rush Request: | Standard | Analyzed by: | see "By" below | | |
| P.O.#: | 11935 | | | | |
| Canister Id: | 19732 | | | | |

## Laboratory Data

SDG ID: GCH92051
Phoenix ID: CH92061

Project ID: 05-003-00 (101 WESTMORELAND AVE)
Client ID: SS-8 (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 | 04/06/21 | KCA | 1 | 1 |
| 1,1,1-Trichloroethane | ND | *0.183* | 0.183 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,1,2,2-Tetrachloroethane | ND | *0.146* | 0.146 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,1,2-Trichloroethane | ND | *0.183* | 0.183 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,1-Dichloroethane | ND | *0.247* | 0.247 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,1-Dichloroethene | ND | *0.051* | 0.051 | ND | *0.20* | 0.20 | 04/06/21 | KCA | 1 | |
| 1,2,4-Trichlorobenzene | ND | *0.135* | 0.135 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2,4-Trimethylbenzene | 0.766 | *0.204* | 0.204 | 3.76 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2-Dibromoethane(EDB) | ND | *0.130* | 0.130 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2-Dichlorobenzene | ND | *0.166* | 0.166 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2-Dichloroethane | ND | *0.247* | 0.247 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2-dichloropropane | ND | *0.217* | 0.217 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2-Dichlorotetrafluoroethane | ND | *0.143* | 0.143 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,3,5-Trimethylbenzene | 0.269 | *0.204* | 0.204 | 1.32 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,3-Butadiene | ND | *0.452* | 0.452 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,3-Dichlorobenzene | ND | *0.166* | 0.166 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,4-Dichlorobenzene | ND | *0.166* | 0.166 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,4-Dioxane | ND | *0.278* | 0.278 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 2-Hexanone(MBK) | ND | *0.244* | 0.244 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| 4-Ethyltoluene | 0.888 | *0.204* | 0.204 | 4.36 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| 4-Isopropyltoluene | ND | *0.182* | 0.182 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| 4-Methyl-2-pentanone(MIBK) | ND | *0.244* | 0.244 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Acetone | 16.6 | *0.421* | 0.421 | 39.4 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Acrylonitrile | ND | *0.461* | 0.461 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Benzene | 0.531 | *0.313* | 0.313 | 1.70 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Benzyl chloride | ND | *0.193* | 0.193 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |

Project ID: 05-003-00 (101 WESTMORELAND AVE) Phoenix I.D.: CH92061

Client ID: SS-8 (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 | 04/06/21 | KCA | 1 | |
| Bromoform | ND | *0.097* | 0.097 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Bromomethane | ND | *0.258* | 0.258 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Carbon Disulfide | ND | *0.321* | 0.321 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Carbon Tetrachloride | 0.094 | *0.032* | 0.032 | 0.59 | *0.20* | 0.20 | 04/06/21 | KCA | 1 | |
| Chlorobenzene | ND | *0.217* | 0.217 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Chloroethane | ND | *0.379* | 0.379 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Chloroform | ND | *0.205* | 0.205 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Chloromethane | ND | *0.485* | 0.485 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Cis-1,2-Dichloroethene | ND | *0.051* | 0.051 | ND | *0.20* | 0.20 | 04/06/21 | KCA | 1 | |
| cis-1,3-Dichloropropene | ND | *0.221* | 0.221 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Cyclohexane | 0.865 | *0.291* | 0.291 | 2.98 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Dibromochloromethane | ND | *0.118* | 0.118 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Dichlorodifluoromethane | 0.317 | *0.202* | 0.202 | 1.57 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Ethanol | 9.06 | *0.531* | 0.531 | 17.1 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| Ethyl acetate | ND | *0.278* | 0.278 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| Ethylbenzene | 2.05 | *0.230* | 0.230 | 8.90 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Heptane | 0.905 | *0.244* | 0.244 | 3.71 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Hexachlorobutadiene | ND | *0.094* | 0.094 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Hexane | 0.749 | *0.284* | 0.284 | 2.64 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Isopropylalcohol | 1.53 | *0.407* | 0.407 | 3.76 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Isopropylbenzene | ND | *0.204* | 0.204 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| m,p-Xylene | 6.96 | *0.230* | 0.230 | 30.2 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Methyl Ethyl Ketone | 0.825 | *0.339* | 0.339 | 2.43 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Methyl tert-butyl ether(MTBE) | ND | *0.278* | 0.278 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Methylene Chloride | ND | *0.864* | 0.864 | ND | *3.00* | 3.00 | 04/06/21 | KCA | 1 | |
| n-Butylbenzene | ND | *0.182* | 0.182 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| o-Xylene | 2.47 | *0.230* | 0.230 | 10.7 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Propylene | ND | *0.581* | 0.581 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| sec-Butylbenzene | ND | *0.182* | 0.182 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| Styrene | 0.382 | *0.235* | 0.235 | 1.63 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Tetrachloroethene | 0.106 | *0.037* | 0.037 | 0.72 | *0.25* | 0.25 | 04/06/21 | KCA | 1 | |
| Tetrahydrofuran | ND | *0.339* | 0.339 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| Toluene | 11.2 | *0.266* | 0.266 | 42.2 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Trans-1,2-Dichloroethene | ND | *0.252* | 0.252 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| trans-1,3-Dichloropropene | ND | *0.221* | 0.221 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Trichloroethene | ND | *0.037* | 0.037 | ND | *0.20* | 0.20 | 04/06/21 | KCA | 1 | |
| Trichlorofluoromethane | 0.197 | *0.178* | 0.178 | 1.11 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Trichlorotrifluoroethane | ND | *0.131* | 0.131 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Vinyl Chloride | ND | *0.078* | 0.078 | ND | *0.20* | 0.20 | 04/06/21 | KCA | 1 | |
| **QA/QC Surrogates/Internals** | | | | | | | | | | |
| % Bromofluorobenzene | 100 | *%* | % | 100 | *%* | % | 04/06/21 | KCA | 1 | |
| % IS-1,4-Difluorobenzene | 110 | *%* | % | 110 | *%* | % | 04/06/21 | KCA | 1 | |
| % IS-Bromochloromethane | 109 | *%* | % | 109 | *%* | % | 04/06/21 | KCA | 1 | |
| % IS-Chlorobenzene-d5 | 111 | *%* | % | 111 | *%* | % | 04/06/21 | KCA | 1 | |

Project ID: 05-003-00 (101 WESTMORELAND AVE) Phoenix I.D.: CH92061
Client ID: SS-8 (4')

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

1 = This parameter is not certified by 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**
**May 05, 2021**
**Reviewed and Released by: Greg Lawrence, Assistant Lab Director**

PHOENIX

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

# Analysis Report

May 05, 2021

FOR: Attn: Mr. Fulya Toylular
G.C. Environmental, Inc.
22 Oak Street
Bayshore, NY 11706

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | AIR | Collected by: | FT | 03/30/21 | 15:50 |
| Location Code: | GC-ENV | Received by: | B | 04/05/21 | 14:35 |
| Rush Request: | Standard | Analyzed by: | see "By" below | | |
| P.O.#: | 11935 | | | | |
| Canister Id: | 23345 | | | | |

## Laboratory Data

SDG ID: GCH92051
Phoenix ID: CH92062

Project ID: 05-003-00 (101 WESTMORELAND AVE)
Client ID: IA-1

| Parameter | ppbv Result | ppbv RL | LOD/ MDL | ug/m3 Result | ug/m3 RL | LOD/ MDL | Date/Time | By | Dilution | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Volatiles (TO15)** | | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | *0.146* | 0.146 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | 1 |
| 1,1,1-Trichloroethane | ND | *0.183* | 0.183 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| 1,1,2,2-Tetrachloroethane | ND | *0.146* | 0.146 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| 1,1,2-Trichloroethane | ND | *0.183* | 0.183 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| 1,1-Dichloroethane | ND | *0.247* | 0.247 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| 1,1-Dichloroethene | ND | *0.051* | 0.051 | ND | *0.20* | 0.20 | 04/05/21 | KCA | 1 | |
| 1,2,4-Trichlorobenzene | ND | *0.135* | 0.135 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| 1,2,4-Trimethylbenzene | 1.21 | *0.204* | 0.204 | 5.94 | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| 1,2-Dibromoethane(EDB) | ND | *0.130* | 0.130 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| 1,2-Dichlorobenzene | ND | *0.166* | 0.166 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| 1,2-Dichloroethane | ND | *0.247* | 0.247 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| 1,2-dichloropropane | ND | *0.217* | 0.217 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| 1,2-Dichlorotetrafluoroethane | ND | *0.143* | 0.143 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| 1,3,5-Trimethylbenzene | 0.336 | *0.204* | 0.204 | 1.65 | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| 1,3-Butadiene | ND | *0.452* | 0.452 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| 1,3-Dichlorobenzene | ND | *0.166* | 0.166 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| 1,4-Dichlorobenzene | ND | *0.166* | 0.166 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| 1,4-Dioxane | ND | *0.278* | 0.278 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| 2-Hexanone(MBK) | ND | *0.244* | 0.244 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | 1 |
| 4-Ethyltoluene | 0.978 | *0.204* | 0.204 | 4.80 | *1.00* | 1.00 | 04/05/21 | KCA | 1 | 1 |
| 4-Isopropyltoluene | ND | *0.182* | 0.182 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | 1 |
| 4-Methyl-2-pentanone(MIBK) | ND | *0.244* | 0.244 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| Acetone | 29.6 | *2.11* | 2.11 | 70.3 | *5.01* | 5.01 | 04/06/21 | KCA | 5 | |
| Acrylonitrile | ND | *0.461* | 0.461 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| Benzene | 1.68 | *0.313* | 0.313 | 5.36 | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| Benzyl chloride | ND | *0.193* | 0.193 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |

Project ID: 05-003-00 (101 WESTMORELAND AVE) Phoenix I.D.: CH92062

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 | 04/05/21 | KCA | 1 | |
| Bromoform | ND | *0.097* | 0.097 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| Bromomethane | ND | *0.258* | 0.258 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| Carbon Disulfide | ND | *0.321* | 0.321 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| Carbon Tetrachloride | 0.128 | *0.032* | 0.032 | 0.80 | *0.20* | 0.20 | 04/05/21 | KCA | 1 | |
| Chlorobenzene | ND | *0.217* | 0.217 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| Chloroethane | ND | *0.379* | 0.379 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| Chloroform | ND | *0.205* | 0.205 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| Chloromethane | 0.737 | *0.485* | 0.485 | 1.52 | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| Cis-1,2-Dichloroethene | ND | *0.051* | 0.051 | ND | *0.20* | 0.20 | 04/05/21 | KCA | 1 | |
| cis-1,3-Dichloropropene | ND | *0.221* | 0.221 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| Cyclohexane | 2.47 | *0.291* | 0.291 | 8.50 | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| Dibromochloromethane | ND | *0.118* | 0.118 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| Dichlorodifluoromethane | 0.407 | *0.202* | 0.202 | 2.01 | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| Ethanol | 185 | *2.66* | 2.66 | 348 | *5.01* | 5.01 | 04/06/21 | KCA | 5 | 1 |
| Ethyl acetate | ND | *0.278* | 0.278 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | 1 |
| Ethylbenzene | 1.19 | *0.230* | 0.230 | 5.16 | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| Heptane | 3.75 | *0.244* | 0.244 | 15.4 | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| Hexachlorobutadiene | ND | *0.094* | 0.094 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| Hexane | 4.16 | *0.284* | 0.284 | 14.7 | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| Isopropylalcohol | 3.80 | *0.407* | 0.407 | 9.33 | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| Isopropylbenzene | ND | *0.204* | 0.204 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| m,p-Xylene | 4.68 | *0.230* | 0.230 | 20.3 | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| Methyl Ethyl Ketone | 0.760 | *0.339* | 0.339 | 2.24 | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| Methyl tert-butyl ether(MTBE) | ND | *0.278* | 0.278 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| Methylene Chloride | ND | *0.864* | 0.864 | ND | *3.00* | 3.00 | 04/05/21 | KCA | 1 | |
| n-Butylbenzene | ND | *0.182* | 0.182 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | 1 |
| o-Xylene | 1.55 | *0.230* | 0.230 | 6.73 | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| Propylene | ND | *0.581* | 0.581 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | 1 |
| sec-Butylbenzene | ND | *0.182* | 0.182 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | 1 |
| Styrene | 0.324 | *0.235* | 0.235 | 1.38 | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| Tetrachloroethene | ND | *0.037* | 0.037 | ND | *0.25* | 0.25 | 04/05/21 | KCA | 1 | |
| Tetrahydrofuran | 0.505 | *0.339* | 0.339 | 1.49 | *1.00* | 1.00 | 04/05/21 | KCA | 1 | 1 |
| Toluene | 10.7 | *0.266* | 0.266 | 40.3 | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| Trans-1,2-Dichloroethene | ND | *0.252* | 0.252 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| trans-1,3-Dichloropropene | ND | *0.221* | 0.221 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| Trichloroethene | ND | *0.037* | 0.037 | ND | *0.20* | 0.20 | 04/05/21 | KCA | 1 | |
| Trichlorofluoromethane | 0.267 | *0.178* | 0.178 | 1.50 | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| Trichlorotrifluoroethane | ND | *0.131* | 0.131 | ND | *1.00* | 1.00 | 04/05/21 | KCA | 1 | |
| Vinyl Chloride | ND | *0.078* | 0.078 | ND | *0.20* | 0.20 | 04/05/21 | KCA | 1 | |
| **QA/QC Surrogates/Internals** | | | | | | | | | | |
| % Bromofluorobenzene | 98 | % | % | 98 | % | % | 04/05/21 | KCA | 1 | |
| % IS-1,4-Difluorobenzene | 73 | % | % | 73 | % | % | 04/05/21 | KCA | 1 | |
| % IS-Bromochloromethane | 73 | % | % | 73 | % | % | 04/05/21 | KCA | 1 | |
| % IS-Chlorobenzene-d5 | 74 | % | % | 74 | % | % | 04/05/21 | KCA | 1 | |
| % Bromofluorobenzene (5x) | 99 | % | % | 99 | % | % | 04/06/21 | KCA | 5 | |
| % IS-1,4-Difluorobenzene (5x) | 115 | % | % | 115 | % | % | 04/06/21 | KCA | 5 | |
| % IS-Bromochloromethane (5x) | 115 | % | % | 115 | % | % | 04/06/21 | KCA | 5 | |
| % IS-Chlorobenzene-d5 (5x) | 114 | % | % | 114 | % | % | 04/06/21 | KCA | 5 | |

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

1 = This parameter is not certified by 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**
**May 05, 2021**
**Reviewed and Released by: Greg Lawrence, Assistant Lab Director**

PHOENIX

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

# Analysis Report

May 05, 2021

FOR: Attn: Mr. Fulya Toylular
G.C. Environmental, Inc.
22 Oak Street
Bayshore, NY 11706

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | AIR | Collected by: | FT | 03/30/21 | 12:45 |
| Location Code: | GC-ENV | Received by: | B | 04/05/21 | 14:35 |
| Rush Request: | Standard | Analyzed by: | see "By" below | | |
| P.O.#: | 11935 | | | | |
| Canister Id: | 13633 | | | | |

## Laboratory Data

SDG ID: GCH92051
Phoenix ID: CH92063

Project ID: 05-003-00 (101 WESTMORELAND AVE)
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 | *0.146* | 0.146 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| 1,1,1-Trichloroethane | 10.0 | *0.183* | 0.183 | 54.5 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,1,2,2-Tetrachloroethane | ND | *0.146* | 0.146 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,1,2-Trichloroethane | ND | *0.183* | 0.183 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,1-Dichloroethane | ND | *0.247* | 0.247 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,1-Dichloroethene | ND | *0.051* | 0.051 | ND | *0.20* | 0.20 | 04/06/21 | KCA | 1 | |
| 1,2,4-Trichlorobenzene | ND | *0.135* | 0.135 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2,4-Trimethylbenzene | ND | *0.204* | 0.204 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2-Dibromoethane(EDB) | ND | *0.130* | 0.130 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2-Dichlorobenzene | ND | *0.166* | 0.166 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2-Dichloroethane | ND | *0.247* | 0.247 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2-dichloropropane | ND | *0.217* | 0.217 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2-Dichlorotetrafluoroethane | ND | *0.143* | 0.143 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,3,5-Trimethylbenzene | ND | *0.204* | 0.204 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,3-Butadiene | ND | *0.452* | 0.452 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,3-Dichlorobenzene | ND | *0.166* | 0.166 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,4-Dichlorobenzene | ND | *0.166* | 0.166 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,4-Dioxane | 1.50 | *0.278* | 0.278 | 5.40 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 2-Hexanone(MBK) | ND | *0.244* | 0.244 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| 4-Ethyltoluene | ND | *0.204* | 0.204 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| 4-Isopropyltoluene | ND | *0.182* | 0.182 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| 4-Methyl-2-pentanone(MIBK) | ND | *0.244* | 0.244 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Acetone | 62.7 | *2.11* | 2.11 | 149 | *5.01* | 5.01 | 04/06/21 | KCA | 5 | |
| Acrylonitrile | ND | *0.461* | 0.461 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Benzene | ND | *0.313* | 0.313 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Benzyl chloride | ND | *0.193* | 0.193 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |

Project ID: 05-003-00 (101 WESTMORELAND AVE) Phoenix I.D.: CH92063

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 | *0.149* | 0.149 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Bromoform | ND | *0.097* | 0.097 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Bromomethane | ND | *0.258* | 0.258 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Carbon Disulfide | ND | *0.321* | 0.321 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Carbon Tetrachloride | 0.056 | *0.032* | 0.032 | 0.35 | *0.20* | 0.20 | 04/06/21 | KCA | 1 | |
| Chlorobenzene | ND | *0.217* | 0.217 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Chloroethane | ND | *0.379* | 0.379 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Chloroform | ND | *0.205* | 0.205 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Chloromethane | ND | *0.485* | 0.485 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Cis-1,2-Dichloroethene | ND | *0.051* | 0.051 | ND | *0.20* | 0.20 | 04/06/21 | KCA | 1 | |
| cis-1,3-Dichloropropene | ND | *0.221* | 0.221 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Cyclohexane | ND | *0.291* | 0.291 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Dibromochloromethane | ND | *0.118* | 0.118 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Dichlorodifluoromethane | 0.368 | *0.202* | 0.202 | 1.82 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Ethanol | 97.1 | *2.66* | 2.66 | 183 | *5.01* | 5.01 | 04/06/21 | KCA | 5 | 1 |
| Ethyl acetate | ND | *0.278* | 0.278 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| Ethylbenzene | 0.311 | *0.230* | 0.230 | 1.35 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Heptane | 0.302 | *0.244* | 0.244 | 1.24 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Hexachlorobutadiene | ND | *0.094* | 0.094 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Hexane | 0.374 | *0.284* | 0.284 | 1.32 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Isopropylalcohol | 29.6 | *0.407* | 0.407 | 72.7 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Isopropylbenzene | ND | *0.204* | 0.204 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| m,p-Xylene | 0.589 | *0.230* | 0.230 | 2.56 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Methyl Ethyl Ketone | 0.691 | *0.339* | 0.339 | 2.04 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Methyl tert-butyl ether(MTBE) | ND | *0.278* | 0.278 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Methylene Chloride | ND | *0.864* | 0.864 | ND | *3.00* | 3.00 | 04/06/21 | KCA | 1 | |
| n-Butylbenzene | ND | *0.182* | 0.182 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| o-Xylene | ND | *0.230* | 0.230 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Propylene | ND | *0.581* | 0.581 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| sec-Butylbenzene | ND | *0.182* | 0.182 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| Styrene | 0.596 | *0.235* | 0.235 | 2.54 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Tetrachloroethene | 7.83 | *0.037* | 0.037 | 53.1 | *0.25* | 0.25 | 04/06/21 | KCA | 1 | |
| Tetrahydrofuran | ND | *0.339* | 0.339 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| Toluene | 1.93 | *0.266* | 0.266 | 7.27 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Trans-1,2-Dichloroethene | ND | *0.252* | 0.252 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| trans-1,3-Dichloropropene | ND | *0.221* | 0.221 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Trichloroethene | ND | *0.037* | 0.037 | ND | *0.20* | 0.20 | 04/06/21 | KCA | 1 | |
| Trichlorofluoromethane | 0.195 | *0.178* | 0.178 | 1.09 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Trichlorotrifluoroethane | ND | *0.131* | 0.131 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Vinyl Chloride | ND | *0.078* | 0.078 | ND | *0.20* | 0.20 | 04/06/21 | KCA | 1 | |
| **QA/QC Surrogates/Internals** | | | | | | | | | | |
| % Bromofluorobenzene | 99 | % | % | 99 | % | % | 04/06/21 | KCA | 1 | |
| % IS-1,4-Difluorobenzene | 113 | % | % | 113 | % | % | 04/06/21 | KCA | 1 | |
| % IS-Bromochloromethane | 110 | % | % | 110 | % | % | 04/06/21 | KCA | 1 | |
| % IS-Chlorobenzene-d5 | 113 | % | % | 113 | % | % | 04/06/21 | KCA | 1 | |
| % Bromofluorobenzene (5x) | 102 | % | % | 102 | % | % | 04/06/21 | KCA | 5 | |
| % IS-1,4-Difluorobenzene (5x) | 72 | % | % | 72 | % | % | 04/06/21 | KCA | 5 | |
| % IS-Bromochloromethane (5x) | 70 | % | % | 70 | % | % | 04/06/21 | KCA | 5 | |
| % IS-Chlorobenzene-d5 (5x) | 70 | % | % | 70 | % | % | 04/06/21 | KCA | 5 | |

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

1 = This parameter is not certified by 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**

**May 05, 2021**

**Reviewed and Released by: Greg Lawrence, Assistant Lab Director**

PHOENIX

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

# Analysis Report

May 05, 2021

FOR: Attn: Mr. Fulya Toylular
G.C. Environmental, Inc.
22 Oak Street
Bayshore, NY 11706

| Sample Information | | Custody Information | | Date | Time |
|---|---|---|---|---|---|
| Matrix: | AIR | Collected by: | FT | 03/30/21 | 13:00 |
| Location Code: | GC-ENV | Received by: | B | 04/05/21 | 14:35 |
| Rush Request: | Standard | Analyzed by: | see "By" below | | |
| P.O.#: | 11935 | | | | |
| Canister Id: | 367 | | | | |

## Laboratory Data

SDG ID: GCH92051
Phoenix ID: CH92064

Project ID: 05-003-00 (101 WESTMORELAND AVE)
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 | *0.146* | 0.146 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| 1,1,1-Trichloroethane | 111 | *0.917* | 0.917 | 605 | *5.00* | 5.00 | 04/06/21 | KCA | 5 | |
| 1,1,2,2-Tetrachloroethane | ND | *0.146* | 0.146 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,1,2-Trichloroethane | ND | *0.183* | 0.183 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,1-Dichloroethane | ND | *0.247* | 0.247 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,1-Dichloroethene | ND | *0.051* | 0.051 | ND | *0.20* | 0.20 | 04/06/21 | KCA | 1 | |
| 1,2,4-Trichlorobenzene | ND | *0.135* | 0.135 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2,4-Trimethylbenzene | ND | *0.204* | 0.204 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2-Dibromoethane(EDB) | ND | *0.130* | 0.130 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2-Dichlorobenzene | ND | *0.166* | 0.166 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2-Dichloroethane | 0.497 | *0.247* | 0.247 | 2.01 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2-dichloropropane | ND | *0.217* | 0.217 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,2-Dichlorotetrafluoroethane | ND | *0.143* | 0.143 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,3,5-Trimethylbenzene | ND | *0.204* | 0.204 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,3-Butadiene | ND | *0.452* | 0.452 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,3-Dichlorobenzene | ND | *0.166* | 0.166 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,4-Dichlorobenzene | ND | *0.166* | 0.166 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 1,4-Dioxane | 2.02 | *0.278* | 0.278 | 7.28 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| 2-Hexanone(MBK) | ND | *0.244* | 0.244 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| 4-Ethyltoluene | ND | *0.204* | 0.204 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| 4-Isopropyltoluene | ND | *0.182* | 0.182 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| 4-Methyl-2-pentanone(MIBK) | ND | *0.244* | 0.244 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Acetone | 65.5 | *2.11* | 2.11 | 155 | *5.01* | 5.01 | 04/06/21 | KCA | 5 | |
| Acrylonitrile | ND | *0.461* | 0.461 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Benzene | ND | *0.313* | 0.313 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Benzyl chloride | ND | *0.193* | 0.193 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |

Project ID: 05-003-00 (101 WESTMORELAND AVE) Phoenix I.D.: CH92064

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 | *0.149* | 0.149 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Bromoform | ND | *0.097* | 0.097 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Bromomethane | ND | *0.258* | 0.258 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Carbon Disulfide | 1.51 | *0.321* | 0.321 | 4.70 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Carbon Tetrachloride | ND | *0.032* | 0.032 | ND | *0.20* | 0.20 | 04/06/21 | KCA | 1 | |
| Chlorobenzene | ND | *0.217* | 0.217 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Chloroethane | ND | *0.379* | 0.379 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Chloroform | ND | *0.205* | 0.205 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Chloromethane | ND | *0.485* | 0.485 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Cis-1,2-Dichloroethene | ND | *0.051* | 0.051 | ND | *0.20* | 0.20 | 04/06/21 | KCA | 1 | |
| cis-1,3-Dichloropropene | ND | *0.221* | 0.221 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Cyclohexane | 2.54 | *0.291* | 0.291 | 8.74 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Dibromochloromethane | ND | *0.118* | 0.118 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Dichlorodifluoromethane | 0.531 | *0.202* | 0.202 | 2.62 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Ethanol | 541 | E *2.66* | 2.66 | 1020 | *5.01* | 5.01 | 04/06/21 | KCA | 5 | 1 |
| Ethyl acetate | ND | *0.278* | 0.278 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| Ethylbenzene | 0.246 | *0.230* | 0.230 | 1.07 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Heptane | 0.468 | *0.244* | 0.244 | 1.92 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Hexachlorobutadiene | ND | *0.094* | 0.094 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Hexane | 0.523 | *0.284* | 0.284 | 1.84 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Isopropylalcohol | 62.4 | *2.04* | 2.04 | 153 | *5.01* | 5.01 | 04/06/21 | KCA | 5 | |
| Isopropylbenzene | ND | *0.204* | 0.204 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| m,p-Xylene | 0.454 | *0.230* | 0.230 | 1.97 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Methyl Ethyl Ketone | 0.715 | *0.339* | 0.339 | 2.11 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Methyl tert-butyl ether(MTBE) | ND | *0.278* | 0.278 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Methylene Chloride | ND | *0.864* | 0.864 | ND | *3.00* | 3.00 | 04/06/21 | KCA | 1 | |
| n-Butylbenzene | ND | *0.182* | 0.182 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| o-Xylene | ND | *0.230* | 0.230 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Propylene | 0.951 | *0.581* | 0.581 | 1.64 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| sec-Butylbenzene | ND | *0.182* | 0.182 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| Styrene | ND | *0.235* | 0.235 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Tetrachloroethene | 9.63 | *0.037* | 0.037 | 65.3 | *0.25* | 0.25 | 04/06/21 | KCA | 1 | |
| Tetrahydrofuran | ND | *0.339* | 0.339 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | 1 |
| Toluene | 1.97 | *0.266* | 0.266 | 7.42 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Trans-1,2-Dichloroethene | ND | *0.252* | 0.252 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| trans-1,3-Dichloropropene | ND | *0.221* | 0.221 | ND | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Trichloroethene | 0.180 | *0.037* | 0.037 | 0.97 | *0.20* | 0.20 | 04/06/21 | KCA | 1 | |
| Trichlorofluoromethane | 0.185 | *0.178* | 0.178 | 1.04 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Trichlorotrifluoroethane | 0.197 | *0.131* | 0.131 | 1.51 | *1.00* | 1.00 | 04/06/21 | KCA | 1 | |
| Vinyl Chloride | ND | *0.078* | 0.078 | ND | *0.20* | 0.20 | 04/06/21 | KCA | 1 | |
| **QA/QC Surrogates/Internals** | | | | | | | | | | |
| % Bromofluorobenzene | 99 | % | % | 99 | % | % | 04/06/21 | KCA | 1 | |
| % IS-1,4-Difluorobenzene | 116 | % | % | 116 | % | % | 04/06/21 | KCA | 1 | |
| % IS-Bromochloromethane | 116 | % | % | 116 | % | % | 04/06/21 | KCA | 1 | |
| % IS-Chlorobenzene-d5 | 117 | % | % | 117 | % | % | 04/06/21 | KCA | 1 | |
| % Bromofluorobenzene (5x) | 103 | % | % | 103 | % | % | 04/06/21 | KCA | 5 | |
| % IS-1,4-Difluorobenzene (5x) | 69 | % | % | 69 | % | % | 04/06/21 | KCA | 5 | |
| % IS-Bromochloromethane (5x) | 69 | % | % | 69 | % | % | 04/06/21 | KCA | 5 | |
| % IS-Chlorobenzene-d5 (5x) | 69 | % | % | 69 | % | % | 04/06/21 | KCA | 5 | |

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

1 = This parameter is not certified by 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:

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**

**May 05, 2021**

**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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

# Canister Sampling Information

May 05, 2021

FOR: Attn: Mr. Fulya Toylular
G.C. Environmental, Inc.
22 Oak Street
Bayshore, NY 11706

Location Code: GC-ENV

SDG I.D.: GCH92051

Project ID: 05-003-00 (101 WESTMORELAND AVE)

| | | | | | | Laboratory | | | | | Field | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Client Id | Lab Id | Canister Id | Canister Type | Reg. Id | Chk Out Date | Out Hg | In Hg | Out Flow | In Flow | Flow RPD | Start Hg | End Hg | Sampling Start Date | Sampling End Date |
| SS-7 | CH92052 | 28567 | 6.0L | 4481 | 03/29/21 | -30 | -3 | 43 | 43 | 0.0 | -30 | -5 | 03/30/21 13:20 | 03/30/21 15:20 |
| SS-5 | CH92053 | 13651 | 6.0L | 4980 | 03/29/21 | -30 | -1 | 43 | 44 | 2.3 | -29 | -4 | 03/30/21 11:36 | 03/30/21 13:36 |
| SS-10 (5') | CH92054 | 12864 | 6.0L | 6988 | 03/29/21 | -30 | -8 | 43 | 51 | 17.0 | -29 | | 04/02/21 10:45 | 04/02/21 12:45 |
| OA-1 | CH92055 | 28603 | 6.0L | 3248 | 03/29/21 | -30 | 0 | 43 | 48 | 11.0 | -29 | -4 | 04/02/21 11:06 | 04/02/21 13:06 |
| OA-1 | CH92055 | 28603 | 6.0L | 2888 | 04/26/21 | -30 | | 10.8 | | | | | | |
| SS-6 | CH92056 | 28582 | 6.0L | 7034 | 03/29/21 | -30 | -1 | 43 | 44 | 2.3 | -29 | -5 | 03/30/21 11:42 | 03/30/21 13:42 |
| SS-4 | CH92057 | 479 | 6.0L | 5619 | 03/29/21 | -30 | 0 | 43 | 43 | 0.0 | -28 | -4 | 03/30/21 11:15 | 03/30/21 13:15 |
| SS-11 (5') | CH92058 | 484 | 6.0L | 5596 | 03/29/21 | -30 | -1 | 43 | 43 | 0.0 | -29 | | 04/02/21 11:40 | 04/02/21 13:40 |
| SS-9 (5') | CH92059 | 470 | 6.0L | 2887 | 03/29/21 | -30 | -2 | 43 | 43 | 0.0 | -29 | -8 | 04/02/21 10:15 | 04/02/21 12:15 |
| SS-1 | CH92060 | 18111 | 6.0L | 3500 | 03/29/21 | -30 | -2 | 43 | 44 | 2.3 | -29 | -4 | 03/30/21 10:36 | 03/30/21 12:35 |
| SS-8 (4') | CH92061 | 19732 | 6.0L | 7025 | 03/29/21 | -30 | -3 | 43 | 45 | 4.5 | -30 | -4 | 03/30/21 13:50 | 03/30/21 15:50 |
| IA-1 | CH92062 | 23345 | 6.0L | 7036 | 03/29/21 | -30 | -4 | 43 | 44 | 2.3 | -29 | -5 | 03/30/21 13:50 | 03/30/21 15:50 |
| SS-2 | CH92063 | 13633 | 6.0L | 5000 | 03/29/21 | -30 | -2 | 43 | 46 | 6.7 | -29 | -5 | 03/30/21 10:45 | 03/30/21 12:45 |
| SS-3 | CH92064 | 367 | 6.0L | 3250 | 03/29/21 | -30 | -1 | 43 | 42 | 2.4 | -28 | -4 | 03/30/21 11:00 | 03/30/21 13:00 |

PHOENIX

Environmental Laboratories, Inc.
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ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

# QA/QC Report

May 05, 2021

## QA/QC Data

SDG I.D.: GCH92051

| 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 569856 (ppbv), QC Sample No: CH91147 (CH92051, CH92052, CH92053, CH92054, CH92056, CH92057, CH92058, CH92059, CH92060, CH92061, CH92062 (5X) , CH92063, CH92064) | | | | | | | | | | | | |
| **Volatiles** | | | | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 0.500 | ND | 3.43 | 101 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| 1,1,1-Trichloroethane | ND | 0.500 | ND | 2.73 | 109 | 113 | 112 | 20.7 | 20.6 | 0.5 | 70 - 130 | 25 |
| 1,1,2,2-Tetrachloroethane | ND | 0.500 | ND | 3.43 | 98 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| 1,1,2-Trichloroethane | ND | 0.500 | ND | 2.73 | 102 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| 1,1-Dichloroethane | ND | 0.500 | ND | 2.02 | 110 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| 1,1-Dichloroethene | ND | 0.500 | ND | 1.98 | 113 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| 1,2,4-Trichlorobenzene | ND | 0.500 | ND | 3.71 | 106 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| 1,2,4-Trimethylbenzene | ND | 0.500 | ND | 2.46 | 115 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| 1,2-Dibromoethane(EDB) | ND | 0.500 | ND | 3.84 | 107 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| 1,2-Dichlorobenzene | ND | 0.500 | ND | 3.00 | 101 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| 1,2-Dichloroethane | ND | 0.500 | ND | 2.02 | 113 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| 1,2-dichloropropane | ND | 0.500 | ND | 2.31 | 106 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| 1,2-Dichlorotetrafluoroethane | ND | 0.500 | ND | 3.49 | 103 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| 1,3,5-Trimethylbenzene | ND | 0.500 | ND | 2.46 | 114 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| 1,3-Butadiene | ND | 0.500 | ND | 1.11 | 115 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| 1,3-Dichlorobenzene | ND | 0.500 | ND | 3.00 | 105 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| 1,4-Dichlorobenzene | ND | 0.500 | ND | 3.00 | 107 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| 1,4-Dioxane | ND | 0.500 | ND | 1.80 | 110 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| 2-Hexanone(MBK) | ND | 0.500 | ND | 2.05 | 115 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| 4-Ethyltoluene | ND | 0.500 | ND | 2.46 | 113 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| 4-Isopropyltoluene | ND | 0.500 | ND | 2.74 | 113 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| 4-Methyl-2-pentanone(MIBK) | ND | 0.500 | ND | 2.05 | 120 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| Acetone | ND | 0.500 | ND | 1.19 | 98 | 32.5 | 32.8 | 13.7 | 13.8 | 0.7 | 70 - 130 | 25 |
| Acrylonitrile | ND | 0.500 | ND | 1.08 | 118 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| Benzene | ND | 0.500 | ND | 1.60 | 109 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| Benzyl chloride | ND | 0.500 | ND | 2.59 | 101 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| Bromodichloromethane | ND | 0.400 | ND | 2.68 | 107 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| Bromoform | ND | 0.500 | ND | 5.17 | 93 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| Bromomethane | ND | 0.500 | ND | 1.94 | 105 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| Carbon Disulfide | ND | 0.500 | ND | 1.56 | 107 | 8.96 | 8.84 | 2.88 | 2.84 | 1.4 | 70 - 130 | 25 |
| Carbon Tetrachloride | ND | 0.500 | ND | 3.14 | 111 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| Chlorobenzene | ND | 0.500 | ND | 2.30 | 102 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| Chloroethane | ND | 0.500 | ND | 1.32 | 113 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| Chloroform | ND | 0.500 | ND | 2.44 | 108 | 3.86 | 3.74 | 0.792 | 0.766 | NC | 70 - 130 | 25 |
| Chloromethane | ND | 0.500 | ND | 1.03 | 129 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| Cis-1,2-Dichloroethene | ND | 0.500 | ND | 1.98 | 105 | 4.83 | 4.68 | 1.22 | 1.18 | NC | 70 - 130 | 25 |
| cis-1,3-Dichloropropene | ND | 0.500 | ND | 2.27 | 116 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| Cyclohexane | ND | 0.500 | ND | 1.72 | 116 | 4.58 | 4.40 | 1.33 | 1.28 | NC | 70 - 130 | 25 |
| Dibromochloromethane | ND | 0.500 | ND | 4.26 | 104 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| Dichlorodifluoromethane | ND | 0.500 | ND | 2.47 | 89 | 8.01 | 7.71 | 1.62 | 1.56 | NC | 70 - 130 | 25 |

# QA/QC Data

SDG I.D.: GCH92051

| 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 | 0.500 | ND | 0.94 | 141 | 531 E | 516 | 282 E | 274 | 2.9 | 70 - 130 | 25 |
| Ethyl acetate | ND | 0.500 | ND | 1.80 | 129 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| Ethylbenzene | ND | 0.500 | ND | 2.17 | 108 | 3.93 | 3.78 | 0.906 | 0.871 | NC | 70 - 130 | 25 |
| Heptane | ND | 0.500 | ND | 2.05 | 117 | 10.5 | 10.3 | 2.57 | 2.51 | 2.4 | 70 - 130 | 25 |
| Hexachlorobutadiene | ND | 0.500 | ND | 5.33 | 100 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| Hexane | ND | 0.500 | ND | 1.76 | 117 | 1.88 | 1.82 | 0.534 | 0.517 | NC | 70 - 130 | 25 |
| Isopropylalcohol | ND | 0.500 | ND | 1.23 | 121 | 12.8 | ND | 5.22 | ND | NC | 70 - 130 | 25 |
| Isopropylbenzene | ND | 0.500 | ND | 2.46 | 110 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| m,p-Xylene | ND | 1.00 | ND | 4.34 | 111 | 14.5 | 13.9 | 3.34 | 3.21 | NC | 70 - 130 | 25 |
| Methyl Ethyl Ketone | ND | 0.500 | ND | 1.47 | 116 | 4.92 | 4.86 | 1.67 | 1.65 | NC | 70 - 130 | 25 |
| Methyl tert-butyl ether(MTBE) | ND | 0.500 | ND | 1.80 | 113 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| Methylene Chloride | ND | 0.500 | ND | 1.74 | 99 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| n-Butylbenzene | ND | 0.500 | ND | 2.74 | 115 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| o-Xylene | ND | 0.500 | ND | 2.17 | 113 | 5.86 | 5.47 | 1.35 | 1.26 | NC | 70 - 130 | 25 |
| Propylene | ND | 0.500 | ND | 0.86 | 110 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| sec-Butylbenzene | ND | 0.500 | ND | 2.74 | 108 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| Styrene | ND | 0.500 | ND | 2.13 | 114 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| Tetrachloroethene | ND | 0.200 | ND | 1.36 | 101 | 1160 | 1170 | 171 | 172 | 0.6 | 70 - 130 | 25 |
| Tetrahydrofuran | ND | 0.500 | ND | 1.47 | 114 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| Toluene | ND | 0.500 | ND | 1.88 | 112 | 24.8 | 24.3 | 6.58 | 6.46 | 1.8 | 70 - 130 | 25 |
| Trans-1,2-Dichloroethene | ND | 0.500 | ND | 1.98 | 112 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| trans-1,3-Dichloropropene | ND | 0.500 | ND | 2.27 | 110 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| Trichloroethene | ND | 0.200 | ND | 1.07 | 106 | 47.3 | 46.5 | 8.81 | 8.65 | 1.8 | 70 - 130 | 25 |
| Trichlorofluoromethane | ND | 0.500 | ND | 2.81 | 109 | 101 | 99.4 | 18.0 | 17.7 | 1.7 | 70 - 130 | 25 |
| Trichlorotrifluoroethane | ND | 0.500 | ND | 3.83 | 106 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| Vinyl Chloride | ND | 0.500 | ND | 1.28 | 114 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| % Bromofluorobenzene | 98 | % | 98 | % | 99 | 100 | 97 | 100 | 97 | NC | 70 - 130 | 25 |
| % IS-1,4-Difluorobenzene | 97 | % | 97 | % | 104 | 94 | 92 | 94 | 92 | NC | 60 - 140 | 25 |
| % IS-Bromochloromethane | 98 | % | 98 | % | 104 | 96 | 93 | 96 | 93 | NC | 60 - 140 | 25 |
| % IS-Chlorobenzene-d5 | 96 | % | 96 | % | 108 | 102 | 102 | 102 | 102 | NC | 60 - 140 | 25 |

QA/QC Batch 569685 (ppbv), QC Sample No: CH91177 (CH92052 (5X) , CH92053 (5X) , CH92055, CH92056 (5X) , CH92057 (5X) , CH92058 (5X) , CH92062, CH92063 (5X) , CH92064 (5X) )

## Volatiles

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | 0.250 | ND | 1.72 | 101 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| 1,1,1-Trichloroethane | ND | 0.250 | ND | 1.36 | 107 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| 1,1,2,2-Tetrachloroethane | ND | 0.010 | ND | 0.07 | 103 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| 1,1,2-Trichloroethane | ND | 0.010 | ND | 0.05 | 102 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| 1,1-Dichloroethane | ND | 0.075 | ND | 0.30 | 107 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| 1,1-Dichloroethene | ND | 0.100 | ND | 0.40 | 125 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| 1,2,4-Trichlorobenzene | ND | 0.027 | ND | 0.20 | 128 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| 1,2,4-Trimethylbenzene | ND | 0.250 | ND | 1.23 | 113 | 6.88 | 6.88 | 1.40 | 1.40 | 0.0 | 70 - 130 | 25 |
| 1,2-Dibromoethane(EDB) | ND | 0.010 | ND | 0.08 | 102 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| 1,2-Dichlorobenzene | ND | 0.050 | ND | 0.30 | 108 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| 1,2-Dichloroethane | ND | 0.010 | ND | 0.04 | 114 | 0.08 | 0.06 | 0.020 | 0.015 | NC | 70 - 130 | 25 |
| 1,2-dichloropropane | ND | 0.010 | ND | 0.05 | 103 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| 1,2-Dichlorotetrafluoroethane | ND | 0.250 | ND | 1.75 | 112 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| 1,3,5-Trimethylbenzene | ND | 0.250 | ND | 1.23 | 106 | 1.89 | 1.90 | 0.384 | 0.386 | NC | 70 - 130 | 25 |
| 1,3-Butadiene | ND | 0.250 | ND | 0.55 | 116 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| 1,3-Dichlorobenzene | ND | 0.050 | ND | 0.30 | 111 | 0.84 | 0.79 | 0.140 | 0.131 | NC | 70 - 130 | 25 |
| 1,4-Dichlorobenzene | ND | 0.040 | ND | 0.24 | 113 | 0.49 | 0.47 | 0.081 | 0.078 | NC | 70 - 130 | 25 |
| 1,4-Dioxane | ND | 0.065 | ND | 0.23 | 102 | ND | ND | ND | ND | NC | 70 - 130 | 25 |
| 2-Hexanone(MBK) | ND | 0.250 | ND | 1.02 | 124 | ND | ND | ND | ND | NC | 70 - 130 | 25 |

# QA/QC Data

SDG I.D.: GCH92051

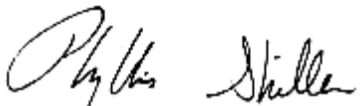
| Parameter | Blk ppbv | Blk RL ppbv | Blk ug/m3 | Blk RL ug/m3 | LCS % | Sample Result ug/m3 | Sample Dup ug/m3 | Sample Result ppbv | Sample Dup ppbv | DUP RPD | % Rec Limits | % RPD Limits | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4-Ethyltoluene | ND | 0.250 | ND | 1.23 | 113 | 5.16 | 5.21 | 1.05 | 1.06 | NC | 70 - 130 | 25 | |
| 4-Isopropyltoluene | ND | 0.250 | ND | 1.37 | 108 | ND | ND | ND | ND | NC | 70 - 130 | 25 | |
| 4-Methyl-2-pentanone(MIBK) | ND | 0.250 | ND | 1.02 | 121 | ND | ND | ND | ND | NC | 70 - 130 | 25 | |
| Acetone | ND | 0.375 | ND | 0.89 | 130 | 138 | 134 | 58.1 | 56.5 | 2.8 | 70 - 130 | 25 | |
| Acrylonitrile | ND | 0.250 | ND | 0.54 | 121 | ND | ND | ND | ND | NC | 70 - 130 | 25 | |
| Benzene | ND | 0.100 | ND | 0.32 | 102 | 0.99 | 0.91 | 0.311 | 0.284 | NC | 70 - 130 | 25 | |
| Benzyl chloride | ND | 0.250 | ND | 1.29 | 106 | ND | ND | ND | ND | NC | 70 - 130 | 25 | |
| Bromodichloromethane | ND | 0.010 | ND | 0.07 | 111 | ND | ND | ND | ND | NC | 70 - 130 | 25 | |
| Bromoform | ND | 0.075 | ND | 0.77 | 111 | ND | ND | ND | ND | NC | 70 - 130 | 25 | |
| Bromomethane | ND | 0.070 | ND | 0.27 | 101 | ND | ND | ND | ND | NC | 70 - 130 | 25 | |
| Carbon Disulfide | ND | 0.250 | ND | 0.78 | 108 | ND | ND | ND | ND | NC | 70 - 130 | 25 | |
| Carbon Tetrachloride | ND | 0.043 | ND | 0.27 | 111 | 0.53 | 0.56 | 0.085 | 0.089 | NC | 70 - 130 | 25 | |
| Chlorobenzene | ND | 0.100 | ND | 0.46 | 100 | ND | ND | ND | ND | NC | 70 - 130 | 25 | |
| Chloroethane | ND | 0.250 | ND | 0.66 | 109 | ND | ND | ND | ND | NC | 70 - 130 | 25 | |
| Chloroform | ND | 0.100 | ND | 0.49 | 104 | ND | ND | ND | ND | NC | 70 - 130 | 25 | |
| Chloromethane | ND | 0.250 | ND | 0.52 | 118 | ND | ND | ND | ND | NC | 70 - 130 | 25 | |
| Cis-1,2-Dichloroethene | ND | 0.100 | ND | 0.40 | 108 | 1.91 | 1.85 | 0.483 | 0.466 | NC | 70 - 130 | 25 | |
| cis-1,3-Dichloropropene | ND | 0.050 | ND | 0.23 | 111 | ND | ND | ND | ND | NC | 70 - 130 | 25 | |
| Cyclohexane | ND | 0.250 | ND | 0.86 | 117 | 1.17 | 1.08 | 0.341 | 0.313 | NC | 70 - 130 | 25 | |
| Dibromochloromethane | ND | 0.010 | ND | 0.09 | 108 | ND | ND | ND | ND | NC | 70 - 130 | 25 | |
| Dichlorodifluoromethane | ND | 0.250 | ND | 1.24 | 105 | 1.33 | 1.58 | 0.269 | 0.320 | NC | 70 - 130 | 25 | |
| Ethanol | ND | 0.375 | ND | 0.71 | 139 | 1450 E | 1470 | 770 E | 782 | 1.5 | 70 - 130 | 25 | I |
| Ethyl acetate | ND | 0.250 | ND | 0.90 | 114 | ND | ND | ND | ND | NC | 70 - 130 | 25 | |
| Ethylbenzene | ND | 0.250 | ND | 1.08 | 104 | 4.51 | 4.47 | 1.04 | 1.03 | NC | 70 - 130 | 25 | |
| Heptane | ND | 0.250 | ND | 1.02 | 119 | 33.5 | 30.8 | 8.17 | 7.53 | 8.2 | 70 - 130 | 25 | |
| Hexachlorobutadiene | ND | 0.010 | ND | 0.11 | 114 | ND | ND | ND | ND | NC | 70 - 130 | 25 | |
| Hexane | ND | 0.225 | ND | 0.79 | 109 | 1.60 | 1.51 | 0.454 | 0.430 | NC | 70 - 130 | 25 | |
| Isopropylalcohol | ND | 0.375 | ND | 0.92 | 160 | 52.6 E | 49.6 | 21.4 E | 20.2 | 5.8 | 70 - 130 | 25 | I |
| Isopropylbenzene | ND | 0.250 | ND | 1.23 | 103 | ND | ND | ND | ND | NC | 70 - 130 | 25 | |
| m,p-Xylene | ND | 0.500 | ND | 2.17 | 110 | 18.1 | 18.6 | 4.18 | 4.29 | 2.6 | 70 - 130 | 25 | |
| Methyl Ethyl Ketone | ND | 0.225 | ND | 0.66 | 119 | 2.46 | ND | 0.834 | ND | NC | 70 - 130 | 25 | |
| Methyl tert-butyl ether(MTBE) | ND | 0.250 | ND | 0.90 | 105 | ND | ND | ND | ND | NC | 70 - 130 | 25 | |
| Methylene Chloride | ND | 1.50 | ND | 5.21 | 121 | ND | ND | ND | ND | NC | 70 - 130 | 25 | |
| n-Butylbenzene | ND | 0.250 | ND | 1.37 | 114 | ND | ND | ND | ND | NC | 70 - 130 | 25 | |
| o-Xylene | ND | 0.250 | ND | 1.08 | 109 | 5.73 | 5.73 | 1.32 | 1.32 | 0.0 | 70 - 130 | 25 | |
| Propylene | ND | 0.250 | ND | 0.43 | 113 | ND | ND | ND | ND | NC | 70 - 130 | 25 | |
| sec-Butylbenzene | ND | 0.250 | ND | 1.37 | 105 | ND | ND | ND | ND | NC | 70 - 130 | 25 | |
| Styrene | ND | 0.100 | ND | 0.43 | 113 | 0.43 | ND | 0.101 | ND | NC | 70 - 130 | 25 | |
| Tetrachloroethene | ND | 0.050 | ND | 0.34 | 98 | 0.63 | 0.65 | 0.093 | 0.096 | NC | 70 - 130 | 25 | |
| Tetrahydrofuran | ND | 0.250 | ND | 0.74 | 111 | 0.98 | 0.94 | 0.333 | 0.319 | NC | 70 - 130 | 25 | |
| Toluene | ND | 0.250 | ND | 0.94 | 104 | 11.1 | 11.0 | 2.96 | 2.93 | 1.0 | 70 - 130 | 25 | |
| Trans-1,2-Dichloroethene | ND | 0.100 | ND | 0.40 | 106 | ND | ND | ND | ND | NC | 70 - 130 | 25 | |
| trans-1,3-Dichloropropene | ND | 0.250 | ND | 1.13 | 105 | ND | ND | ND | ND | NC | 70 - 130 | 25 | |
| Trichloroethene | ND | 0.025 | ND | 0.13 | 106 | 14.1 | 14.3 | 2.62 | 2.66 | 1.5 | 70 - 130 | 25 | |
| Trichlorofluoromethane | ND | 0.250 | ND | 1.40 | 121 | 1.57 | 1.67 | 0.280 | 0.297 | NC | 70 - 130 | 25 | |
| Trichlorotrifluoroethane | ND | 0.250 | ND | 1.91 | 114 | ND | ND | ND | ND | NC | 70 - 130 | 25 | |
| Vinyl Chloride | ND | 0.050 | ND | 0.13 | 111 | ND | ND | ND | ND | NC | 70 - 130 | 25 | |
| % Bromofluorobenzene | 98 | % | 98 | % | 104 | 100 | 103 | 100 | 103 | NC | 70 - 130 | 25 | |
| % IS-1,4-Difluorobenzene | 102 | % | 102 | % | 101 | 101 | 95 | 101 | 95 | NC | 60 - 140 | 25 | |
| % IS-Bromochloromethane | 100 | % | 100 | % | 101 | 99 | 96 | 99 | 96 | NC | 60 - 140 | 25 | |
| % IS-Chlorobenzene-d5 | 99 | % | 99 | % | 108 | 110 | 101 | 110 | 101 | NC | 60 - 140 | 25 | |

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

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

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

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



Phyllis Shiller, Laboratory Director
May 05, 2021

# Sample Criteria Exceedances Report

## GCH92051 - GC-ENV



Criteria: None

State: NY

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

*** No Data to Display ***

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

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, 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. #

Page of

Data Delivery:
Fax #: (631) 206 3729
Email: ftaylular@gcenvironmental.com
Phone # (631) 206 3700

Report to: Fulya Taylular
Customer: GC EM.
Address: 22 Oak Street,
Bay Shore, NY 11706

Project Name: 05-003-00 (101 Westwood Ave.)
Invoice to: Diana Legakis
Sampled by: Fulya Taylular

Data Format: (Circle) Equis Excel Other:
Requested Deliverable: RCP ASP CAT B MCP NJ Deliverables
Quote Number:

| Phoenix ID # | Client Sample ID | Canister ID # | Canister Size (L) | Outgoing Canister Pressure (" Hg) | Incoming Canister Pressure ("Hg) | Flow Regulator ID # | Flow Controller Setting (mL/min) | Sampling Start Time | Sampling End Time | Sample Start Date | Canister Pressure at Start (" Hg) | Canister Pressure at End ("Hg) | Ambient/Indoor Air | Soil Gas | Grab ( G ) Composite ( C ) | TO-15 | APH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | THIS SECTION FOR LAB USE ONLY | | | | | | | | | | | MATRIX | | | ANALYSES | |
| 92051 | SS-12 | 469 | 6.0 | -30 | -7 | 7046 | 213 | 2:30 | 3:50 | 4.1.21 | -29 | -10 | | X | | X | |
| ~~92052~~ | ~~SS-12 - not used~~ | 173 | | | | 5615 | | ~~12:30~~ | ~~2:50~~ | ~~4.1.21~~ | ~~-29~~ | | | X | | X | |
| 92052 | SS-7 (SS-6A) | 28567 | | | -3 | 4481 | | 1:20pm | 3:20 | 3.30.21 | -30 | -5 | | X | | X | |
| 92053 | SS-5 | 13651 | | | -1 | 4980 | | 11:36 | 1:36pm | 3.30.21 | -29 | -4 | | X | | X | |
| 92054 | SS-10 | 12864 | | | -8 | 6988 | | 10:45 | 12:45 | 4.1.21 | -29 | - | | X | | X | |
| 92055 | OA-1 | 28603 | ↓ | ↓ | 0 | 3248 | ↓ | 11:06 | 1:06pm | 3.30.21 | -29 | -4 | X | | | X | |

| Relinquished by: | Accepted by: | Date: | Time: |
|---|---|---|---|
| | | 4.5.21 | 6:05 |
| | | 4/5/21 | 15:11 |

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

Signature: _____ Date: _____

State Where Samples Collected: _____

SPECIAL INSTRUCTIONS, QC REQUIREMENTS, REGULATORY INFORMATION:
(6)(6-0)
2HR

Turnaround Time:
1 Day ☐
2 Day ☐
3 Day ☐
4 Day ☐
5 Day ☑

Requested Criteria:

| CT: | MA: (Please Circle) | NJ: | NY: | PA: | VT: |
|---|---|---|---|---|---|
| TAC I/C<br>TAC RES<br>SVVC I/C<br>SVVC RES<br>GWV I/C<br>GWV CES | **Indoor Air:**<br>Residential<br>Ind/Commercial<br>**Soil Gas:**<br>Residential<br>Ind/Commercial | **Indoor Air:**<br>Residential<br>Ind/Commercial<br>**Soil Gas:**<br>Residential<br>Ind/Commercial | Vapor Intrusion | **Indoor Air**<br>Residential<br>Non-residential | **Indoor Air**<br>Residential<br>Industrial<br>**Sub-slab**<br>Residential<br>Industrial |

14:35

PEL-115 Rev. 9/2019

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, 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. #  Page  of

Data Delivery:
☑ Fax #: (631) 206 37 29
☑ Email: ftaylular@gcenvironmental.com
☑ Phone #: (631) 206 7700

Report to: Fulya Taylular
Customer: GC Env.
Address: 220 Oak Street, Bay Shore, NY 11706

Project Name: 05-003-00 (101 Westwood Ave.)
Invoice to: Same Logistics
Sampled by: Fulya Taylular

Data Format: (Circle) Equis Excel Other:
Requested Deliverable: RCP ASP CAT B
MCP NJ Deliverables
Quote Number:

| Phoenix ID # | Client Sample ID | Canister ID # | Canister Size (L) | Outgoing Canister Pressure (" Hg) | Incoming Canister Pressure ("Hg) | Flow Regulator ID # | Flow Controller Setting (mL/min) | Sampling Start Time | Sampling End Time | Sample Start Date | Canister Pressure at Start (" Hg) | Canister Pressure at End ("Hg) | Ambient/Indoor Air | Soil Gas | Grab (G) Composite (C) | TO-15 | APH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | THIS SECTION FOR LAB USE ONLY | | | | | | | | | | | MATRIX | | | ANALYSES | |
| 92056 | SS-6 | 28582 | 6.0 | -30 | -1 | 7034 | 43 | 11:42 | 1:42 | 3.30.21 | -29 | -5 | | X | | X | |
| 92057 | SS-4 | 479 | | | 0 | 6619 | | 11:15 | 1:15pm | 11 | -28 | -4 | | X | | X | |
| 92058 | SS-11 | 484 | | | -1 | 5596 | | 11:40 | 1:40 | 4.2.21 | -29 | | | X | | X | |
| 92059 | SS-9 | 470 | | | -2 | 2887 | | 10:15 | 12:15 | 4.2.21 | -29 | -8 | | X | | X | |
| 92060 | SS-1 | 18111 | | | -2 | 3500 | | 10:36 | 12:36 | 3.30.21 | -29 | -4 | | X | | X | |
| 92061 | SS-8 (Dup) | 19732 | | | -3 | 7025 | | 1:50pm | 3:50p | 11 | -30 | -4 | | X | | X | |
| 92062 | IA-1 | 23345 | | | -4 | 7036 | | 1:50pm | 3:50p | 11 | -29 | -5 | X | | | X | |
| 92063 | SS-2 | 13633 | | | -2 | 5000 | | 10:45a | 12:45p | 11 | -29 | -5 | | X | | X | |
| | not used | 227 | | | -30 | 5641 | | | | | | | | | | | |
| 92064 | SS-3 | 367 | ↓ | ↓ | -1 | 3250 | ↓ | 11:00 | 1:00pm | 11 | -28 | -4 | | X | | X | |

| Relinquished by: | Accepted by: | Date: | Time: |
|---|---|---|---|
| | | 4.5.21 | 10:05 |
| | | 4/5/21 | 15:10 |

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

Signature: _____ Date: _____

14:35

State Where Samples Collected: _____

SPECIAL INSTRUCTIONS, QC REQUIREMENTS, REGULATORY INFORMATION:
(10)6.0
2+2

Turnaround Time:
1 Day ☐
2 Day ☐
3 Day ☐
4 Day ☐
5 Day ☑

Requested Criteria: (Please Circle)

| CT: | MA: | NJ: | NY: | PA: | VT: |
|---|---|---|---|---|---|
| TAC I/C<br>TAC RES<br>SVVC I/C<br>SVVC RES<br>GWV I/C<br>GWV CES | **Indoor Air:**<br>Residential<br>Ind/Commercial<br>**Soil Gas:**<br>Residential<br>Ind/Commercial | **Indoor Air:**<br>Residential<br>Ind/Commercial<br>**Soil Gas:**<br>Residential<br>Ind/Commercial | Vapor Intrusion | **Indoor Air**<br>Residential<br>Non-residential | **Indoor Air**<br>Residential<br>Industrial<br>**Sub-slab**<br>Residential<br>Industrial |

PEL-115 Rev. 9/2019

## Sarah Bell

**From:** Fulya Toylular <ftoylular@gcenvironmental.com>
**Sent:** Tuesday, April 06, 2021 8:26 AM
**To:** Sarah Bell
**Subject:** RE: Phoenix Labs - GCH92051, 05-003-00 (101 WESTMORELAND AVE) - COC Acknowledgement

Good morning Sara,

Can you please revise the SS-8, SS-9, SS-10, SS-11, and SS-12 as SS-8(4`), SS-9(5`),SS-10(5`), SS-11(5`), and SS-12(5`) in the COR and in the main report.

Sometimes I do fill these forms in a rush and forgot.

Thanks,
Fulya

---

**From:** clientservices@phoenixlabs.com <clientservices@phoenixlabs.com>
**Sent:** Monday, April 5, 2021 6:44 PM
**To:** Fulya Toylular <ftoylular@gcenvironmental.com>
**Subject:** Phoenix Labs - GCH92051, 05-003-00 (101 WESTMORELAND AVE) - COC Acknowledgement

This is an automated sample acknowledgement.

If you were issued a Phoenix Price Quote # for this SDG and it was not listed on the chain, please email client services with the quote number so we can ensure proper invoicing. If no quote was issued, no further action is required.

If you have a PO# that is required for this SDG, and you need it listed on your invoice please email client services so we can be sure to get the PO# listed on the invoice. If no PO# is required, no further action is required.

GCH92051 Criteria:
None.

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

Delivery group GCH92051 (05-003-00 (101 WESTMORELAND AVE) ) has been logged in for the following samples:

| Phoenix Id | Client Id |
|---|---|

| | |
|---|---|
| CH92051 | SS-12 |
| CH92052 | SS-7 |
| CH92053 | SS-5 |
| CH92054 | SS-10 |
| CH92055 | OA-1 |
| CH92056 | SS-6 |
| CH92057 | SS-4 |
| CH92058 | SS-11 |
| CH92059 | SS-9 |
| CH92060 | SS-1 |
| CH92061 | SS-8 (DEEP) |
| CH92062 | IA-1 |
| CH92063 | SS-2 |
| CH92064 | SS-3 |

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

Thank you for your business,

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:DBrown@GCEnvironmental.com;gc@GCEnvironmental.com;ftoylular@GCEnvironmental.com

PHOENIX
Environmental Laboratories, Inc.

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: G.C. Environmental, Inc.

05-003-00 (101 WESTMORELAND AVE)

Laboratory Project: GCH92051

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 indentification 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. Samples that require dilution may result in elevated reporting limits that exceed requested criteria for one or more analytes.

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.

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

SDG: GCH92051

# Volatile Air Conformance / Non-Conformance Summary

Project ID / Client ID: 05-003-00 (101 WESTMORELAND AVE), G.C. Environmental, Inc.

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: CH91177 LCS
All LCS recoveries met criteria with the following exceptions: Ethanol 146%, Isopropylalcohol 156%

Sample: CH91147 LCS
All LCS recoveries met criteria with the following exceptions: Ethanol 148%

Form 4 (Method Blank):
---
File: CHEM20 0405_06.D
All compounds were non-detect with the following exceptions: None.

File: CHEM24 0405_38.D
All compounds were non-detect with the following exceptions: None.

Form 5 (Tune):
---
File: CHEM20 0326_03.D
All Tune criteria was met with the following exceptions: None.

File: CHEM20 0405_02.D
All Tune criteria was met with the following exceptions: None.

File: CHEM24 0405_34.D
All Tune criteria was met with the following exceptions: None.

Form 6 (Initial Calibration):
---
Calibration: CHEM20 03/26/21 - 03/27/21
100% of method compounds met criteria.
The following compounds did not meet maximum % deviations: None.

Calibration: CHEM24 03/10/21 - 03/10/21
100% of method compounds met criteria.
The following compounds did not meet maximum % deviations: None.

Form 7 (Continuing Calibration):

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ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

SDG: GCH92051

# Volatile Air Conformance / Non-Conformance Summary

Project ID / Client ID: 05-003-00 (101 WESTMORELAND AVE), G.C. Environmental, Inc.

---

File: CHEM20 0405_02.D (Opening)
99% of method compounds met criteria.
The following compounds did not meet maximum % deviations: Acetone -31.5% (30)

File: CHEM24 0405_34.D (Opening)
100% of method compounds met criteria.
The following compounds did not meet maximum % deviations: 1,2,4-Trichlorobenzene 30.0% (20)

Form 8 (Internal Standard and Retention Time):

---

File: CHEM20 - 20_AIR_0329.M / 0405_02.D Full
All samples met internal standard area and retention time critieria with the following exceptions: None.

File: CHEM20 - 20_AIR_0329.M / 0405_02.D Sim
All samples met internal standard area and retention time critieria with the following exceptions: None.

File: CHEM20 - 20_AIR_0329.M / Average Full
All samples met internal standard area and retention time critieria with the following exceptions: None.

File: CHEM20 - 20_AIR_0329.M / Average Sim
All samples met internal standard area and retention time critieria with the following exceptions: None.

File: CHEM24 - 24AIR_0310.M / 0405_34.D Full
All samples met internal standard area and retention time critieria with the following exceptions: None.

File: CHEM24 - 24AIR_0310.M / 0405_34.D Sim
All samples met internal standard area and retention time critieria with the following exceptions: None.

File: CHEM24 - 24AIR_0310.M / Average Full
All samples met internal standard area and retention time critieria with the following exceptions: None.

File: CHEM24 - 24AIR_0310.M / Average Sim
All samples met internal standard area and retention time critieria with the following exceptions: None.



05/03/21

Alejandro Paredes

Project Manager

2C
AIR SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: Phoenix Environmental Labs Client: GC-ENV

Lab Code: Phoenix Case No.: SDG: GCH92051

QC Batch Id: 569856 QC Sample Id: CH91147

| | CLIENT ID | LAB ID | SMC1 BFB # | | | | TOT OUT |
|---|---|---|---|---|---|---|---|
| 01 | CH91147 LCS | CH91147 LCS | 99 | | | | 0 |
| 02 | CH91147 BLANK | CH91147 BLANK | 98 | | | | 0 |
| 03 | CH91147 QC | CH91147 QC | 100 | | | | 0 |
| 04 | 91147 dup | CH91147 DUP | 97 | | | | 0 |
| 05 | SS-12 (5') | CH92051 | 101 | | | | 0 |
| 06 | SS-7 | CH92052 | 103 | | | | 0 |
| 07 | SS-5 | CH92053 | 99 | | | | 0 |
| 08 | SS-10 (5') | CH92054 | 98 | | | | 0 |
| 09 | SS-6 | CH92056 | 100 | | | | 0 |
| 10 | SS-4 | CH92057 | 100 | | | | 0 |
| 11 | SS-11 (5') | CH92058 | 98 | | | | 0 |
| 12 | SS-9 (5') | CH92059 | 100 | | | | 0 |
| 13 | SS-1 | CH92060 | 97 | | | | 0 |
| 14 | SS-8 (4') | CH92061 | 100 | | | | 0 |
| 15 | SS-2 | CH92063 | 99 | | | | 0 |
| 16 | SS-3 | CH92064 | 99 | | | | 0 |
| 17 | IA-1 5X | CH92062 5X | 99 | | | | 0 |
| 18 | | | | | | | |
| 19 | | | | | | | |
| 20 | | | | | | | |
| 21 | | | | | | | |
| 22 | | | | | | | |
| 23 | | | | | | | |
| 24 | | | | | | | |
| 25 | | | | | | | |
| 26 | | | | | | | |
| 27 | | | | | | | |
| 28 | | | | | | | |
| 29 | | | | | | | |
| 30 | | | | | | | |

| | | | QC LIMITS |
|---|---|---|---|
| SMC1 | BFB | Bromofluorobenzene | (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: GC-ENV

Lab Code: Phoenix Case No.: SDG: GCH92051

QC Batch Id: 569685 QC Sample Id: CH91177

| | CLIENT ID | LAB ID | SMC1 BFB # | | | | TOT OUT |
|---|---|---|---|---|---|---|---|
| 01 | CH91177 LCS | CH91177 LCS | 104 | | | | 0 |
| 02 | CH91177 BLANK | CH91177 BLANK | 99 | | | | 0 |
| 03 | CH91177 QC | CH91177 QC | 100 | | | | 0 |
| 04 | 91177 0.5x dup | CH91177 DUP | 103 | | | | 0 |
| 05 | OA-1 | CH92055 | 102 | | | | 0 |
| 06 | IA-1 | CH92062 | 98 | | | | 0 |
| 07 | SS-7 5X | CH92052 5X | 101 | | | | 0 |
| 08 | SS-5 5X | CH92053 5X | 98 | | | | 0 |
| 09 | SS-6 5X | CH92056 5X | 101 | | | | 0 |
| 10 | SS-4 5X | CH92057 5X | 100 | | | | 0 |
| 11 | SS-11 (5') 5X | CH92058 5X | 101 | | | | 0 |
| 12 | SS-2 5X | CH92063 5X | 102 | | | | 0 |
| 13 | SS-3 5X | CH92064 5X | 103 | | | | 0 |
| 14 | | | | | | | |
| 15 | | | | | | | |
| 16 | | | | | | | |
| 17 | | | | | | | |
| 18 | | | | | | | |
| 19 | | | | | | | |
| 20 | | | | | | | |
| 21 | | | | | | | |
| 22 | | | | | | | |
| 23 | | | | | | | |
| 24 | | | | | | | |
| 25 | | | | | | | |
| 26 | | | | | | | |
| 27 | | | | | | | |
| 28 | | | | | | | |
| 29 | | | | | | | |
| 30 | | | | | | | |

| | | | QC LIMITS |
|---|---|---|---|
| SMC1 | BFB | Bromofluorobenzene | (70-130) |

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

FORM II AIR

# AIR LCS RECOVERY

Lab Name: Phoenix Environmental Labs Client: GC-ENV

Lab Code: Phoenix Case No: SAS No: SDG No GCH92051

LCS - Client Id: CH91147 LCS

| COMPOUND | SPIKE ADDED (ppbv) | | LCS CONCENTRATION (ppbv) | LCS % REC # | QC. LIMITS REC. | |
|---|---|---|---|---|---|---|
| Propylene | 10 | | 11.01 | 110 | 70 | 130 |
| Dichlorodifluoromethane | 10 | | 8.930 | 89 | 70 | 130 |
| Chloromethane | 10 | | 12.87 | 129 | 70 | 130 |
| 1,2-Dichlorotetrafluoroethane | 10 | | 10.31 | 103 | 70 | 130 |
| Vinyl Chloride | 10 | | 11.37 | 114 | 70 | 130 |
| 1,3-Butadiene | 10 | | 11.51 | 115 | 70 | 130 |
| Bromomethane | 10 | | 10.54 | 105 | 70 | 130 |
| Chloroethane | 10 | | 11.34 | 113 | 70 | 130 |
| Ethanol | 4 | | 5.901 | 148 * | 70 | 130 |
| Acetone | 10 | | 9.755 | 98 | 70 | 130 |
| Trichlorofluoromethane | 10 | | 10.90 | 109 | 70 | 130 |
| Isopropylalcohol | 6 | | 7.113 | 119 | 70 | 130 |
| Acrylonitrile | 10 | | 11.76 | 118 | 70 | 130 |
| 1,1-Dichloroethene | 10 | | 11.31 | 113 | 70 | 130 |
| Methylene Chloride | 10 | | 9.912 | 99 | 70 | 130 |
| Carbon Disulfide | 10 | | 10.68 | 107 | 70 | 130 |
| Trichlorotrifluoroethane | 10 | | 10.60 | 106 | 70 | 130 |
| Trans-1,2-Dichloroethene | 10 | | 11.23 | 112 | 70 | 130 |
| 1,1-Dichloroethane | 10 | | 11.03 | 110 | 70 | 130 |
| Methyl tert-butyl ether(MTBE) | 10 | | 11.26 | 113 | 70 | 130 |
| Methyl Ethyl Ketone | 10 | | 11.63 | 116 | 70 | 130 |
| Cis-1,2-Dichloroethene | 10 | | 10.46 | 105 | 70 | 130 |
| Hexane | 10 | | 11.73 | 117 | 70 | 130 |
| Chloroform | 10 | | 10.83 | 108 | 70 | 130 |
| Ethyl acetate | 10 | | 12.88 | 129 | 70 | 130 |
| Tetrahydrofuran | 10 | | 11.43 | 114 | 70 | 130 |
| 1,2-Dichloroethane | 10 | | 11.32 | 113 | 70 | 130 |
| 1,1,1-Trichloroethane | 10 | | 10.94 | 109 | 70 | 130 |
| Benzene | 10 | | 10.93 | 109 | 70 | 130 |
| Carbon Tetrachloride | 10 | | 11.11 | 111 | 70 | 130 |
| Cyclohexane | 10 | | 11.62 | 116 | 70 | 130 |
| 1,2-dichloropropane | 10 | | 10.65 | 107 | 70 | 130 |
| Bromodichloromethane | 10 | | 10.65 | 107 | 70 | 130 |
| Trichloroethene | 10 | | 10.62 | 106 | 70 | 130 |
| 1,4-Dioxane | 10 | | 10.97 | 110 | 70 | 130 |
| Heptane | 10 | | 11.72 | 117 | 70 | 130 |
| cis-1,3-Dichloropropene | 10 | | 11.59 | 116 | 70 | 130 |
| 4-Methyl-2-pentanone(MIBK) | 10 | | 11.99 | 120 | 70 | 130 |
| trans-1,3-Dichloropropene | 10 | | 11.01 | 110 | 70 | 130 |
| 1,1,2-Trichloroethane | 10 | | 10.25 | 103 | 70 | 130 |
| Toluene | 10 | | 11.22 | 112 | 70 | 130 |
| Dibromochloromethane | 10 | | 10.41 | 104 | 70 | 130 |
| 2-Hexanone(MBK) | 10 | | 11.46 | 115 | 70 | 130 |
| 1,2-Dibromoethane(EDB) | 10 | | 10.67 | 107 | 70 | 130 |

FORM III AIR

# AIR LCS RECOVERY

Lab Name: Phoenix Environmental Labs Client: GC-ENV

Lab Code: Phoenix Case No: SAS No: SDG No GCH92051

LCS - Client Id: CH91147 LCS

| COMPOUND | SPIKE ADDED (ppbv) | | LCS CONCENTRATION (ppbv) | LCS % REC # | QC. LIMITS REC. | |
|---|---|---|---|---|---|---|
| Tetrachloroethene | 10 | | 10.13 | 101 | 70 | 130 |
| 1,1,1,2-Tetrachloroethane | 10 | | 10.13 | 101 | 70 | 130 |
| Chlorobenzene | 10 | | 10.15 | 102 | 70 | 130 |
| Ethylbenzene | 10 | | 10.82 | 108 | 70 | 130 |
| m,p-Xylene | 20 | | 22.23 | 111 | 70 | 130 |
| Bromoform | 10 | | 9.272 | 93 | 70 | 130 |
| Styrene | 10 | | 11.38 | 114 | 70 | 130 |
| 1,1,2,2-Tetrachloroethane | 10 | | 9.847 | 98 | 70 | 130 |
| o-Xylene | 10 | | 11.28 | 113 | 70 | 130 |
| Isopropylbenzene | 10 | | 11.00 | 110 | 70 | 130 |
| 4-Ethyltoluene | 10 | | 11.34 | 113 | 70 | 130 |
| 1,3,5-Trimethylbenzene | 10 | | 11.38 | 114 | 70 | 130 |
| 1,2,4-Trimethylbenzene | 10 | | 11.47 | 115 | 70 | 130 |
| Benzyl chloride | 10 | | 10.07 | 101 | 70 | 130 |
| 1,3-Dichlorobenzene | 10 | | 10.46 | 105 | 70 | 130 |
| 1,4-Dichlorobenzene | 10 | | 10.71 | 107 | 70 | 130 |
| sec-Butylbenzene | 10 | | 10.76 | 108 | 70 | 130 |
| 4-Isopropyltoluene | 10 | | 11.27 | 113 | 70 | 130 |
| 1,2-Dichlorobenzene | 10 | | 10.10 | 101 | 70 | 130 |
| n-Butylbenzene | 10 | | 11.51 | 115 | 70 | 130 |
| Hexachlorobutadiene | 10 | | 9.997 | 100 | 70 | 130 |

FORM III AIR

AIR LCS RECOVERY

Lab Name: Phoenix Environmental Labs Client: GC-ENV

Lab Code: Phoenix Case No: SAS No: SDG No GCH92051

LCS - Client Id: CH91177 LCS

| COMPOUND | SPIKE ADDED (ppbv) | | LCS CONCENTRATION (ppbv) | LCS % REC # | QC. LIMITS REC. | |
|---|---|---|---|---|---|---|
| Propylene | 10 | | 11.29 | 113 | 70 | 130 |
| Dichlorodifluoromethane | 10 | | 10.50 | 105 | 70 | 130 |
| Chloromethane | 10 | | 11.83 | 118 | 70 | 130 |
| 1,2-Dichlorotetrafluoroethane | 10 | | 11.24 | 112 | 70 | 130 |
| Vinyl Chloride | 10 | | 11.12 | 111 | 70 | 130 |
| 1,3-Butadiene | 10 | | 11.57 | 116 | 70 | 130 |
| Bromomethane | 10 | | 10.14 | 101 | 70 | 130 |
| Chloroethane | 10 | | 10.87 | 109 | 70 | 130 |
| Ethanol | 4 | | 5.853 | 146 * | 70 | 130 |
| Acetone | 10 | | 13.04 | 130 | 70 | 130 |
| Trichlorofluoromethane | 10 | | 12.10 | 121 | 70 | 130 |
| Isopropylalcohol | 6 | | 9.382 | 156 * | 70 | 130 |
| Acrylonitrile | 10 | | 12.07 | 121 | 70 | 130 |
| 1,1-Dichloroethene | 10 | | 12.54 | 125 | 70 | 130 |
| Methylene Chloride | 10 | | 12.10 | 121 | 70 | 130 |
| Carbon Disulfide | 10 | | 10.80 | 108 | 70 | 130 |
| Trichlorotrifluoroethane | 10 | | 11.39 | 114 | 70 | 130 |
| Trans-1,2-Dichloroethene | 10 | | 10.56 | 106 | 70 | 130 |
| 1,1-Dichloroethane | 10 | | 10.68 | 107 | 70 | 130 |
| Methyl tert-butyl ether(MTBE) | 10 | | 10.50 | 105 | 70 | 130 |
| Methyl Ethyl Ketone | 10 | | 11.89 | 119 | 70 | 130 |
| Cis-1,2-Dichloroethene | 10 | | 10.76 | 108 | 70 | 130 |
| Hexane | 10 | | 10.93 | 109 | 70 | 130 |
| Chloroform | 10 | | 10.35 | 104 | 70 | 130 |
| Ethyl acetate | 10 | | 11.43 | 114 | 70 | 130 |
| Tetrahydrofuran | 10 | | 11.05 | 111 | 70 | 130 |
| 1,2-Dichloroethane | 10 | | 11.39 | 114 | 70 | 130 |
| 1,1,1-Trichloroethane | 10 | | 10.65 | 107 | 70 | 130 |
| Benzene | 10 | | 10.15 | 102 | 70 | 130 |
| Carbon Tetrachloride | 10 | | 11.08 | 111 | 70 | 130 |
| Cyclohexane | 10 | | 11.67 | 117 | 70 | 130 |
| 1,2-dichloropropane | 10 | | 10.28 | 103 | 70 | 130 |
| Bromodichloromethane | 10 | | 11.08 | 111 | 70 | 130 |
| Trichloroethene | 10 | | 10.58 | 106 | 70 | 130 |
| 1,4-Dioxane | 10 | | 10.19 | 102 | 70 | 130 |
| Heptane | 10 | | 11.85 | 119 | 70 | 130 |
| cis-1,3-Dichloropropene | 10 | | 11.11 | 111 | 70 | 130 |
| 4-Methyl-2-pentanone(MIBK) | 10 | | 12.14 | 121 | 70 | 130 |
| trans-1,3-Dichloropropene | 10 | | 10.54 | 105 | 70 | 130 |
| 1,1,2-Trichloroethane | 10 | | 10.22 | 102 | 70 | 130 |
| Toluene | 10 | | 10.42 | 104 | 70 | 130 |
| Dibromochloromethane | 10 | | 10.81 | 108 | 70 | 130 |
| 2-Hexanone(MBK) | 10 | | 12.43 | 124 | 70 | 130 |
| 1,2-Dibromoethane(EDB) | 10 | | 10.22 | 102 | 70 | 130 |

FORM III AIR

# AIR LCS RECOVERY

Lab Name: Phoenix Environmental Labs Client: GC-ENV

Lab Code: Phoenix Case No: SAS No: SDG No GCH92051

LCS - Client Id: CH91177 LCS

| COMPOUND | SPIKE ADDED (ppbv) | | LCS CONCENTRATION (ppbv) | LCS % REC # | QC. LIMITS REC. | |
|---|---|---|---|---|---|---|
| Tetrachloroethene | 10 | | 9.815 | 98 | 70 | 130 |
| 1,1,1,2-Tetrachloroethane | 10 | | 10.14 | 101 | 70 | 130 |
| Chlorobenzene | 10 | | 9.974 | 100 | 70 | 130 |
| Ethylbenzene | 10 | | 10.35 | 104 | 70 | 130 |
| m,p-Xylene | 20 | | 22.04 | 110 | 70 | 130 |
| Bromoform | 10 | | 11.10 | 111 | 70 | 130 |
| Styrene | 10 | | 11.30 | 113 | 70 | 130 |
| 1,1,2,2-Tetrachloroethane | 10 | | 10.29 | 103 | 70 | 130 |
| o-Xylene | 10 | | 10.94 | 109 | 70 | 130 |
| Isopropylbenzene | 10 | | 10.26 | 103 | 70 | 130 |
| 4-Ethyltoluene | 10 | | 11.34 | 113 | 70 | 130 |
| 1,3,5-Trimethylbenzene | 10 | | 10.59 | 106 | 70 | 130 |
| 1,2,4-Trimethylbenzene | 10 | | 11.27 | 113 | 70 | 130 |
| Benzyl chloride | 10 | | 10.59 | 106 | 70 | 130 |
| 1,3-Dichlorobenzene | 10 | | 11.08 | 111 | 70 | 130 |
| 1,4-Dichlorobenzene | 10 | | 11.25 | 113 | 70 | 130 |
| sec-Butylbenzene | 10 | | 10.45 | 105 | 70 | 130 |
| 4-Isopropyltoluene | 10 | | 10.83 | 108 | 70 | 130 |
| 1,2-Dichlorobenzene | 10 | | 10.76 | 108 | 70 | 130 |
| n-Butylbenzene | 10 | | 11.42 | 114 | 70 | 130 |
| 1,2,4-Trichlorobenzene | 10 | | 12.82 | 128 | 70 | 130 |
| Hexachlorobutadiene | 10 | | 11.38 | 114 | 70 | 130 |

FORM III AIR

4A

AIR METHOD BLANK SUMMARY

Client ID: CH91147 BLANK

Lab Name: Phoenix Environmental Labs  Client: GC-ENV

Lab Code: Phoenix  Case No.:  SAS No.:  SDG No.: GCH92051

Lab File ID: 0405_38.D  Lab Sample ID: CH91147 BLK

Date Analyzed: 04/06/2021  Time Analyzed: 13:03

GC Column: RTX-VMS  Lab Batch ID: 569856

Instrument ID: CHEM24  Heated Purge:(Y/N) Y

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

| | CLIENT SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | TIME ANALYZED |
|---|---|---|---|---|
| 01 | CH91147 LCS | CH91147 LCS | 0405_36.D | 12:04 |
| 02 | CH91147 QC | CH91147 | 0405_39.D | 13:39 |
| 03 | 91147 dup | CH91147 DUP | 0405_41.D | 15:05 |
| 04 | SS-12 (5') | CH92051 | 0405_42.D | 16:30 |
| 05 | SS-7 | CH92052 | 0405_43.D | 17:06 |
| 06 | SS-5 | CH92053 | 0405_44.D | 17:42 |
| 07 | SS-10 (5') | CH92054 | 0405_45.D | 18:20 |
| 08 | SS-6 | CH92056 | 0405_46.D | 18:56 |
| 09 | SS-4 | CH92057 | 0405_47.D | 19:32 |
| 10 | SS-11 (5') | CH92058 | 0405_48.D | 20:07 |
| 11 | SS-9 (5') | CH92059 | 0405_49.D | 20:43 |
| 12 | SS-1 | CH92060 | 0405_50.D | 21:22 |
| 13 | SS-8 (4') | CH92061 | 0405_51.D | 21:57 |
| 14 | SS-2 | CH92063 | 0405_52.D | 22:31 |
| 15 | SS-3 | CH92064 | 0405_53.D | 23:07 |
| 16 | IA-1 5X | CH92062 5X | 0405_54.D | 23:38 |
| 17 | | | | |
| 18 | | | | |
| 19 | | | | |
| 20 | | | | |

COMMENTS:

FORM IV AIR

4A

AIR METHOD BLANK SUMMARY

Client ID: CH91177 BLANK

Lab Name: Phoenix Environmental Labs  Client: GC-ENV

Lab Code: Phoenix  Case No.:  SAS No.:  SDG No.: GCH92051

Lab File ID: 0405_06.D  Lab Sample ID: CH91177 BLK

Date Analyzed: 04/05/2021  Time Analyzed: 12:00

GC Column: RTX-1 60M  Lab Batch ID: 569685

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 | CH91177 LCS | CH91177 LCS | 0405_04.D | 10:51 |
| 02 | CH91177 QC | CH91177 0.5X | 0405_07.D | 12:43 |
| 03 | 91177 0.5x dup | CH91177 DUP 0.5X | 0405_08.D | 13:27 |
| 04 | OA-1 | CH92055 | 0405_17.D | 19:33 |
| 05 | IA-1 | CH92062 | 0405_18.D | 20:13 |
| 06 | SS-7 5X | CH92052 5X | 0405_20.D | 21:28 |
| 07 | SS-5 5X | CH92053 5X | 0405_21.D | 22:05 |
| 08 | SS-6 5X | CH92056 5X | 0405_23.D | 23:20 |
| 09 | SS-4 5X | CH92057 5X | 0405_24.D | 23:57 |
| 10 | SS-11 (5') 5X | CH92058 5X | 0405_25.D | 00:34 |
| 11 | SS-2 5X | CH92063 5X | 0405_29.D | 03:03 |
| 12 | SS-3 5X | CH92064 5X | 0405_30.D | 03:41 |
| 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: GC-ENV

Lab Code: Phoenix  Case No.:  SAS No.:  SDG No.: GCH92051

Lab File ID: 0326_03.D  BFB Injection Date: 03/26/21

Instrument ID: CHEM20  BFB Injection Time: 17:03

GC Column: RTX-1 60M  Heated Purge: (Y/N) Y

AutoFind: Scans 780, 781, 782; Background Corrected with Scan 775

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE | | | |
|---|---|---|---|---|---|
| 50 | 8.0 - 40.0% of mass 95 | 34.9 | | | |
| 75 | 30.0 - 66.0% of mass 95 | 54.5 | | | |
| 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 | 0.0 | ( | 0.0 | )1 |
| 174 | 50.0 - 120.0% of mass 95 | 72.9 | | | |
| 175 | 4.0 - 9.0% of mass 174 | 9.0 | ( | 6.5 | )1 |
| 176 | 93.0 - 101.0% of mass 174 | 99.1 | ( | 72.2 | )1 |
| 177 | 5.0 - 9.0% of mass 176 | 6.3 | ( | 4.5 | )1 |

1-Value is % mass 95

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

| | CLIENT ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED | |
|---|---|---|---|---|---|---|
| 01 | ICAL 0.02 | 0.02 | 0326_05.D | 03/26/21 | 19:51 | |
| 02 | ICAL 0.035 | 0.035 | 0326_06.D | 03/26/21 | 20:27 | |
| 03 | ICAL 0.05 | 0.05 | 0326_07.D | 03/26/21 | 21:03 | |
| 04 | ICAL 0.1 | 0.10 | 0326_08.D | 03/26/21 | 21:39 | |
| 05 | ICAL 0.25 | 0.20 | 0326_09.D | 03/26/21 | 22:16 | |
| 06 | ICAL 0.5 | 0.50 | 0326_10.D | 03/26/21 | 22:53 | |
| 07 | ICAL 2.5 | 2.5 | 0326_11.D | 03/26/21 | 23:32 | |
| 08 | ICAL 5 | 5.0 | 0326_12.D | 03/27/21 | 00:08 | |
| 09 | ICAL 25 | 25 | 0326_13.D | 03/27/21 | 00:46 | |
| 10 | ICAL 40 | 40 | 0326_14.D | 03/27/21 | 01:25 | |
| 11 | ICAL 1 | 1ppb cc | 0326_16.D | 03/27/21 | 02:36 | |
| 12 | ICAL 10 | 10ppb cc | 0326_17.D | 03/27/21 | 03:13 | |
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(*) Outside 24 hr clock

FORM V AIR

CLPBFB

Data Path : H:\AIR2021\CHEM20\03MAR\26\
Data File : 0326_03.D
Acq On : 26 Mar 2021 5:03 pm
Operator :
Sample : 0/0
Misc :
ALS Vial : 6 Sample Multiplier: 1

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

Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0329.M
Title : VOA Standards for 5 point calibration
Last Update : Mon Mar 29 13:11:28 2021

AutoFind: Scans 780, 781, 782; Background Corrected with Scan 775

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 8 | 40 | 34.9 | 101371 | PASS |
| 75 | 95 | 30 | 66 | 54.5 | 158083 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 290197 | PASS |
| 96 | 95 | 5 | 9 | 6.7 | 19429 | PASS |
| 173 | 174 | 0.00 | 2 | 0.0 | 0 | PASS |
| 174 | 95 | 50 | 120 | 72.9 | 211456 | PASS |
| 175 | 174 | 3 | 9 | 9.0 | 18953 | PASS |
| 176 | 174 | 93 | 101 | 99.1 | 209643 | PASS |
| 177 | 176 | 5 | 9 | 6.3 | 13178 | PASS |

20_AIR_0329.M Mon Mar 29 13:14:10 2021

5B
AIR INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Phoenix Environmental Labs  Client: GC-ENV

Lab Code: Phoenix  Case No.:  SAS No.:  SDG No.: GCH92051

Lab File ID: 0405_02.D  BFB Injection Date: 04/05/21

Instrument ID: CHEM20  BFB Injection Time: 08:25

GC Column: RTX-1 60M  Heated Purge: (Y/N) Y

AutoFind: Scans 780, 781, 782; Background Corrected with Scan 775

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE | | | |
|---|---|---|---|---|---|
| 50 | 8.0 - 40.0% of mass 95 | 39.9 | | | |
| 75 | 30.0 - 66.0% of mass 95 | 58.4 | | | |
| 95 | Base Peak, 100% relative abundance | 100.0 | | | |
| 96 | 5.0 - 9.0% of mass 95 | 6.6 | | | |
| 173 | Less than 2.0% of mass 174 | 0.0 | ( | 0.0 | )1 |
| 174 | 50.0 - 120.0% of mass 95 | 70.8 | | | |
| 175 | 4.0 - 9.0% of mass 174 | 4.5 | ( | 3.2 | )1 |
| 176 | 93.0 - 101.0% of mass 174 | 97.1 | ( | 68.7 | )1 |
| 177 | 5.0 - 9.0% of mass 176 | 6.4 | ( | 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 | CCAL 1 | 1.0ppb cc | 0405_02.D | 04/05/21 | 08:25 | |
| 02 | CH91177 LCS | CH91177 LCS | 0405_04.D | 04/05/21 | 10:51 | |
| 03 | CH91177 BLANK | CH91177 BLANK | 0405_06.D | 04/05/21 | 12:00 | |
| 04 | CH91177 QC | CH91177 QC | 0405_07.D | 04/05/21 | 12:43 | |
| 05 | 91177 0.5x dup | CH91177 DUP | 0405_08.D | 04/05/21 | 13:27 | |
| 06 | OA-1 | CH92055 | 0405_17.D | 04/05/21 | 19:33 | |
| 07 | IA-1 | CH92062 | 0405_18.D | 04/05/21 | 20:13 | |
| 08 | SS-7 5X | CH92052 5X | 0405_20.D | 04/05/21 | 21:28 | |
| 09 | SS-5 5X | CH92053 5X | 0405_21.D | 04/05/21 | 22:05 | |
| 10 | SS-6 5X | CH92056 5X | 0405_23.D | 04/05/21 | 23:20 | |
| 11 | SS-4 5X | CH92057 5X | 0405_24.D | 04/05/21 | 23:57 | |
| 12 | SS-11 (5') 5X | CH92058 5X | 0405_25.D | 04/06/21 | 00:34 | |
| 13 | SS-2 5X | CH92063 5X | 0405_29.D | 04/06/21 | 03:03 | |
| 14 | SS-3 5X | CH92064 5X | 0405_30.D | 04/06/21 | 03:41 | |
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(*) Outside 24 hr clock

FORM V AIR

CLPBFB

Data Path : H:\AIR2021\CHEM20\04APR\05\
Data File : 0405_02.D
Acq On : 5 Apr 2021 8:25 am
Operator :
Sample : 1.0ppb cc
Misc :
ALS Vial : 2 Sample Multiplier: 1

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

Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0329.M
Title : VOA Standards for 5 point calibration
Last Update : Mon Mar 29 13:11:28 2021

AutoFind: Scans 780, 781, 782; Background Corrected with Scan 775

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 8 | 40 | 39.9 | 93312 | PASS |
| 75 | 95 | 30 | 66 | 58.4 | 136723 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 234136 | PASS |
| 96 | 95 | 5 | 9 | 6.6 | 15501 | PASS |
| 173 | 174 | 0.00 | 2 | 0.0 | 0 | PASS |
| 174 | 95 | 50 | 120 | 70.8 | 165797 | PASS |
| 175 | 174 | 3 | 9 | 4.4 | 7371 | PASS |
| 176 | 174 | 93 | 101 | 97.1 | 160949 | PASS |
| 177 | 176 | 5 | 9 | 6.4 | 10251 | PASS |

20_AIR_0329.M Mon Apr 05 09:50:49 2021

5B
AIR INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Phoenix Environmental Labs  Client: GC-ENV

Lab Code: Phoenix  Case No.:  SAS No.:  SDG No.: GCH92051

Lab File ID: 0310_02.D  BFB Injection Date: 03/10/21

Instrument ID: CHEM24  BFB Injection Time: 10:54

GC Column: RTX-VMS  Heated Purge: (Y/N) Y

AutoFind: Scans 1651, 1652, 1653; Background Corrected with Scan 1643

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE | | | |
|---|---|---|---|---|---|
| 50 | 8.0 - 40.0% of mass 95 | 31.6 | | | |
| 75 | 30.0 - 66.0% of mass 95 | 51.0 | | | |
| 95 | Base Peak, 100% relative abundance | 100.0 | | | |
| 96 | 5.0 - 9.0% of mass 95 | 6.9 | | | |
| 173 | Less than 2.0% of mass 174 | 0.0 | ( | 0.0 | )1 |
| 174 | 50.0 - 120.0% of mass 95 | 91.9 | | | |
| 175 | 4.0 - 9.0% of mass 174 | 7.8 | ( | 7.1 | )1 |
| 176 | 93.0 - 101.0% of mass 174 | 94.2 | ( | 86.5 | )1 |
| 177 | 5.0 - 9.0% of mass 176 | 6.6 | ( | 5.7 | )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 | 0310_03.D | 03/10/21 | 11:22 | |
| 02 | ICAL 0.035 | 0.035 | 0310_04.D | 03/10/21 | 11:50 | |
| 03 | ICAL 0.05 | 0.05 | 0310_05.D | 03/10/21 | 12:18 | |
| 04 | ICAL 0.1 | 0.10 | 0310_06.D | 03/10/21 | 12:46 | |
| 05 | ICAL 0.25 | 0.20 | 0310_07.D | 03/10/21 | 13:16 | |
| 06 | ICAL 0.5 | 0.50 | 0310_08.D | 03/10/21 | 13:48 | |
| 07 | ICAL 2.5 | 2.5 | 0310_09.D | 03/10/21 | 14:21 | |
| 08 | ICAL 5 | 5.0 | 0310_10.D | 03/10/21 | 14:50 | |
| 09 | ICAL 25 | 25 | 0310_11.D | 03/10/21 | 15:23 | |
| 10 | ICAL 40 | 40 | 0310_12.D | 03/10/21 | 15:59 | |
| 11 | ICAL 1 | 1ppb | 0310_14.D | 03/10/21 | 16:57 | |
| 12 | ICAL 10 | 10ppb | 0310_15.D | 03/10/21 | 17:26 | |
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(*) Outside 24 hr clock

FORM V AIR

CLPBFB

Data Path : H:\AIR2021\CHEM24\03MAR\10\
Data File : 0310_02.D
Acq On : 10 Mar 2021 10:54 am
Operator : Keith
Sample : 0/0
Misc :
ALS Vial : 46 Sample Multiplier: 1

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

Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
Title : VOA Standards for 5 point calibration
Last Update : Fri Mar 12 10:25:01 2021

AutoFind: Scans 1651, 1652, 1653; Background Corrected with Scan 1643

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 8 | 40 | 31.6 | 77443 | PASS |
| 75 | 95 | 30 | 66 | 51.0 | 124928 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 244885 | PASS |
| 96 | 95 | 5 | 9 | 6.9 | 16826 | PASS |
| 173 | 174 | 0.00 | 2 | 0.0 | 0 | PASS |
| 174 | 95 | 50 | 120 | 91.9 | 224960 | PASS |
| 175 | 174 | 4 | 9 | 7.7 | 17430 | PASS |
| 176 | 174 | 93 | 101 | 94.2 | 211819 | PASS |
| 177 | 176 | 5 | 9 | 6.5 | 13869 | PASS |

24AIR_0310.M Fri Mar 12 10:29:24 2021

5B
AIR INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Phoenix Environmental Labs  Client: GC-ENV

Lab Code: Phoenix  Case No.:  SAS No.:  SDG No.: GCH92051

Lab File ID: 0405_34.D  BFB Injection Date: 04/06/21

Instrument ID: CHEM24  BFB Injection Time: 10:58

GC Column: RTX-VMS  Heated Purge: (Y/N) Y

AutoFind: Scans 1653, 1654, 1655; Background Corrected with Scan 1645

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 50 | 8.0 - 40.0% of mass 95 | 33.1 |
| 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 | 7.0 |
| 173 | Less than 2.0% of mass 174 | 0.0 ( 0.0 )1 |
| 174 | 50.0 - 120.0% of mass 95 | 88.5 |
| 175 | 4.0 - 9.0% of mass 174 | 8.1 ( 7.2 )1 |
| 176 | 93.0 - 101.0% of mass 174 | 95.0 ( 84.1 )1 |
| 177 | 5.0 - 9.0% of mass 176 | 6.5 ( 5.4 )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 | CCAL 1 | 1ppb cc | 0405_34.D | 04/06/21 | 10:58 | |
| 02 | CH91147 LCS | CH91147 LCS | 0405_36.D | 04/06/21 | 12:04 | |
| 03 | CH91147 BLANK | CH91147 BLANK | 0405_38.D | 04/06/21 | 13:03 | |
| 04 | CH91147 QC | CH91147 QC | 0405_39.D | 04/06/21 | 13:39 | |
| 05 | 91147 dup | CH91147 DUP | 0405_41.D | 04/06/21 | 15:05 | |
| 06 | SS-12 (5') | CH92051 | 0405_42.D | 04/06/21 | 16:30 | |
| 07 | SS-7 | CH92052 | 0405_43.D | 04/06/21 | 17:06 | |
| 08 | SS-5 | CH92053 | 0405_44.D | 04/06/21 | 17:42 | |
| 09 | SS-10 (5') | CH92054 | 0405_45.D | 04/06/21 | 18:20 | |
| 10 | SS-6 | CH92056 | 0405_46.D | 04/06/21 | 18:56 | |
| 11 | SS-4 | CH92057 | 0405_47.D | 04/06/21 | 19:32 | |
| 12 | SS-11 (5') | CH92058 | 0405_48.D | 04/06/21 | 20:07 | |
| 13 | SS-9 (5') | CH92059 | 0405_49.D | 04/06/21 | 20:43 | |
| 14 | SS-1 | CH92060 | 0405_50.D | 04/06/21 | 21:22 | |
| 15 | SS-8 (4') | CH92061 | 0405_51.D | 04/06/21 | 21:57 | |
| 16 | SS-2 | CH92063 | 0405_52.D | 04/06/21 | 22:31 | |
| 17 | SS-3 | CH92064 | 0405_53.D | 04/06/21 | 23:07 | |
| 18 | IA-1 5X | CH92062 5X | 0405_54.D | 04/06/21 | 23:38 | |
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(*) Outside 24 hr clock

FORM V AIR

CLPBFB

Data Path : H:\AIR2021\CHEM24\04APR\05\
Data File : 0405_34.D
Acq On : 6 Apr 2021 10:58 am
Operator : Keith
Sample : 1ppb cc
Misc :
ALS Vial : 32 Sample Multiplier: 1

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

Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
Title : VOA Standards for 5 point calibration
Last Update : Fri Mar 12 10:34:44 2021

AutoFind: Scans 1653, 1654, 1655; Background Corrected with Scan 1645

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 8 | 40 | 33.1 | 113352 | PASS |
| 75 | 95 | 30 | 66 | 52.3 | 178965 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 342229 | PASS |
| 96 | 95 | 5 | 9 | 7.0 | 23936 | PASS |
| 173 | 174 | 0.00 | 2 | 0.0 | 0 | PASS |
| 174 | 95 | 50 | 120 | 88.5 | 302891 | PASS |
| 175 | 174 | 4 | 9 | 8.1 | 24627 | PASS |
| 176 | 174 | 93 | 101 | 95.0 | 287701 | PASS |
| 177 | 176 | 5 | 9 | 6.5 | 18600 | PASS |

24AIR_0310.M Tue Apr 06 11:32:10 2021

8A
AIR INTERNAL STANDARD AREA AND RT SUMMARY
Full Scan

Lab Name: Phoenix Environmental Labs Client: GC-ENV

Lab Code: Phoenix Case No.: _____ SAS No.: _____ SDG No.: GCH92051

Lab Method / File Id: 20_AIR_0329.M / Average Date Analyzed: 03/27/21

Instrument ID: CHEM20 Time Analyzed: 2:36

GC Column: _____ 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 | 257109 | | 6.71 | | 995058 | | 7.89 | | 545725 | | 10.43 | | | | Average |
| | UPPER LIMIT | 361238 | | 7.04 | | 1398057 | | 8.22 | | 766744 | | 10.76 | | | | Average |
| | LOWER LIMIT | 152980 | | 6.38 | | 592060 | | 7.56 | | 324706 | | 10.10 | | | | Average |
| | | | | | | | | | | | | | | | | |
| | CLIENT ID | | | | | | | | | | | | | | | |
| 01 | ICAL 0.25 | 248349 | | 6.70 | | 951057 | | 7.89 | | 467498 | | 10.43 | | | | 0326_09.D |
| 02 | ICAL 0.5 | 245496 | | 6.70 | | 946398 | | 7.89 | | 470739 | | 10.43 | | | | 0326_10.D |
| 03 | ICAL 2.5 | 241949 | | 6.70 | | 933892 | | 7.90 | | 477935 | | 10.43 | | | | 0326_11.D |
| 04 | ICAL 5 | 250524 | | 6.70 | | 955121 | | 7.90 | | 511361 | | 10.43 | | | | 0326_12.D |
| 05 | ICAL 25 | 261269 | | 6.71 | | 1015602 | | 7.90 | | 633388 | | 10.43 | | | | 0326_13.D |
| 06 | ICAL 40 | 281908 | | 6.72 | | 1091392 | | 7.90 | | 740303 | | 10.44 | | | | 0326_14.D |
| 07 | ICAL 1 | 263827 | | 6.70 | | 1037824 | | 7.89 | | 507692 | | 10.43 | | | | 0326_16.D |
| 08 | ICAL 10 | 263549 | | 6.71 | | 1029180 | | 7.90 | | 556884 | | 10.43 | | | | 0326_17.D |
| 09 | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | |
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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: GC-ENV

Lab Code: Phoenix Case No.: _____ SAS No.: _____ SDG No.: GCH92051

Lab Method / File Id: 20_AIR_0329.M / Average Date Analyzed: 03/27/21

Instrument ID: CHEM20 Time Analyzed: 2:36

GC Column: _____ 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 | 289476 | | 6.71 | | 966497 | | 7.89 | | 487280 | | 10.43 | | | | Average |
| | UPPER LIMIT | 406714 | | 7.04 | | 1357928 | | 8.22 | | 684629 | | 10.76 | | | | Average |
| | LOWER LIMIT | 172238 | | 6.38 | | 575066 | | 7.56 | | 289932 | | 10.10 | | | | Average |
| | | | | | | | | | | | | | | | | |
| | CLIENT ID | | | | | | | | | | | | | | | |
| 01 | ICAL 0.02 | 291987 | | 6.71 | | 969958 | | 7.90 | | 477679 | | 10.43 | | | | 0326_05.D |
| 02 | ICAL 0.035 | 291361 | | 6.70 | | 955460 | | 7.89 | | 470733 | | 10.43 | | | | 0326_06.D |
| 03 | ICAL 0.05 | 286101 | | 6.71 | | 939203 | | 7.89 | | 460789 | | 10.43 | | | | 0326_07.D |
| 04 | ICAL 0.1 | 288175 | | 6.70 | | 947700 | | 7.89 | | 470607 | | 10.43 | | | | 0326_08.D |
| 05 | ICAL 0.25 | 282638 | | 6.71 | | 951074 | | 7.89 | | 468055 | | 10.43 | | | | 0326_09.D |
| 06 | ICAL 0.5 | 282261 | | 6.71 | | 945794 | | 7.89 | | 470739 | | 10.43 | | | | 0326_10.D |
| 07 | ICAL 2.5 | 279552 | | 6.71 | | 933892 | | 7.90 | | 478063 | | 10.43 | | | | 0326_11.D |
| 08 | ICAL 5 | 286703 | | 6.71 | | 955121 | | 7.90 | | 511361 | | 10.43 | | | | 0326_12.D |
| 09 | ICAL 1 | 302081 | | 6.71 | | 1037824 | | 7.89 | | 507891 | | 10.43 | | | | 0326_16.D |
| 10 | ICAL 10 | 303901 | | 6.72 | | 1028941 | | 7.90 | | 556884 | | 10.43 | | | | 0326_17.D |
| 11 | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | |
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| 21 | | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | | | |

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

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

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

FORM VIII VOA

8A
AIR INTERNAL STANDARD AREA AND RT SUMMARY
Full Scan

Lab Name: Phoenix Environmental Labs Client: GC-ENV

Lab Code: Phoenix Case No.: _____ SAS No.: _____ SDG No.: GCH92051

Lab Method / File Id: 20_AIR_0329.M / 0405_02.D Date Analyzed: 04/05/21

Instrument ID: CHEM20 Time Analyzed: 8:25

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 | 194385 | 6.70 | 732172 | 7.89 | 379201 | 10.43 | | | 0405_02.D |
| UPPER LIMIT | 273111 | 7.03 | 1028702 | 8.22 | 532777 | 10.76 | | | 0405_02.D |
| LOWER LIMIT | 115659 | 6.37 | 435642 | 7.56 | 225625 | 10.10 | | | 0405_02.D |
| | | | | | | | | | |
| CLIENT ID | | | | | | | | | |
| 01 CCAL 1 | 194385 | 6.70 | 732172 | 7.89 | 379201 | 10.43 | | | 0405_02.D |
| 02 CH91177 LCS | 195634 | 6.70 | 736657 | 7.90 | 408146 | 10.43 | | | 0405_04.D |
| 03 CH91177 BLANK | 194007 | 6.69 | 745303 | 7.89 | 376323 | 10.43 | | | 0405_06.D |
| 04 CH91177 QC | 191589 | 6.70 | 736059 | 7.89 | 418966 | 10.43 | | | 0405_07.D |
| 05 91177 0.5x dup | 186021 | 6.70 | 693514 | 7.89 | 382196 | 10.43 | | | 0405_08.D |
| 06 OA-1 | 140240 | 6.70 | 541563 | 7.89 | 272332 | 10.43 | | | 0405_17.D |
| 07 IA-1 | 142109 | 6.70 | 532965 | 7.89 | 279434 | 10.43 | | | 0405_18.D |
| 08 SS-7 5X | 135856 | 6.70 | 538432 | 7.89 | 273887 | 10.43 | | | 0405_20.D |
| 09 SS-5 5X | 137857 | 6.70 | 524217 | 7.89 | 270064 | 10.43 | | | 0405_21.D |
| 10 SS-6 5X | 138161 | 6.70 | 530627 | 7.89 | 269602 | 10.43 | | | 0405_23.D |
| 11 SS-4 5X | 137477 | 6.70 | 525740 | 7.89 | 272361 | 10.43 | | | 0405_24.D |
| 12 SS-11 (5') 5X | 135110 | 6.69 | 519651 | 7.89 | 261055 | 10.43 | | | 0405_25.D |
| 13 SS-2 5X | 136010 | 6.70 | 528615 | 7.89 | 265631 | 10.43 | | | 0405_29.D |
| 14 SS-3 5X | 134876 | 6.70 | 505084 | 7.89 | 262800 | 10.43 | | | 0405_30.D |
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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: GC-ENV

Lab Code: Phoenix Case No.: _____ SAS No.: _____ SDG No.: GCH92051

Lab Method / File Id: 20_AIR_0329.M / 0405_02.D Date Analyzed: 04/05/21

Instrument ID: CHEM20 Time Analyzed: 8:25

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 | 223186 | 6.71 | 732172 | 7.89 | 379201 | 10.43 | | | 0405_02.D |
| UPPER LIMIT | 313576 | 7.04 | 1028702 | 8.22 | 532777 | 10.76 | | | 0405_02.D |
| LOWER LIMIT | 132796 | 6.38 | 435642 | 7.56 | 225625 | 10.10 | | | 0405_02.D |
| | | | | | | | | | |
| CLIENT ID | | | | | | | | | |
| 01 CCAL 1 | 223186 | 6.71 | 732172 | 7.89 | 379201 | 10.43 | | | 0405_02.D |
| 02 CH91177 LCS | 219658 | 6.71 | 736669 | 7.90 | 408245 | 10.43 | | | 0405_04.D |
| 03 CH91177 BLANK | 224972 | 6.70 | 745116 | 7.89 | 376323 | 10.43 | | | 0405_06.D |
| 04 CH91177 QC | 223002 | 6.71 | 736059 | 7.89 | 418733 | 10.43 | | | 0405_07.D |
| 05 91177 0.5x dup | 210791 | 6.71 | 693514 | 7.89 | 382464 | 10.43 | | | 0405_08.D |
| 06 OA-1 | 166678 | 6.71 | 541563 | 7.89 | 272332 | 10.43 | | | 0405_17.D |
| 07 IA-1 | 163360 | 6.71 | 532965 | 7.89 | 279855 | 10.43 | | | 0405_18.D |
| 08 SS-7 5X | 162093 | 6.71 | 538144 | 7.89 | 273887 | 10.43 | | | 0405_20.D |
| 09 SS-5 5X | 159354 | 6.71 | 524217 | 7.89 | 270064 | 10.43 | | | 0405_21.D |
| 10 SS-6 5X | 159610 | 6.71 | 530627 | 7.89 | 269602 | 10.43 | | | 0405_23.D |
| 11 SS-4 5X | 160068 | 6.71 | 525211 | 7.89 | 272361 | 10.43 | | | 0405_24.D |
| 12 SS-11 (5') 5X | 157276 | 6.70 | 519651 | 7.89 | 261055 | 10.43 | | | 0405_25.D |
| 13 SS-2 5X | 159040 | 6.71 | 528615 | 7.89 | 265631 | 10.43 | | | 0405_29.D |
| 14 SS-3 5X | 157326 | 6.71 | 505084 | 7.89 | 262800 | 10.43 | | | 0405_30.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
AREA LOWER LIMIT = - 60% of internal standard area
RT UPPER LIMIT = +0.33 minutes of internal standard RT
RT LOWER LIMIT = -0.33 minutes of internal standard RT

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

FORM VIII VOA

8A
AIR INTERNAL STANDARD AREA AND RT SUMMARY
Full Scan

Lab Name: Phoenix Environmental Labs Client: GC-ENV

Lab Code: Phoenix Case No.: _____ SAS No.: _____ SDG No.: GCH92051

Lab Method / File Id: 24AIR_0310.M / Average Date Analyzed: 03/10/21

Instrument ID: CHEM24 Time Analyzed: 16:57

GC Column: _____ 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 | 253703 | 5.27 | 784732 | 7.22 | 360257 | 10.82 | | | Average |
| | UPPER LIMIT | 356453 | 5.60 | 1102549 | 7.55 | 506162 | 11.15 | | | Average |
| | LOWER LIMIT | 150953 | 4.94 | 466916 | 6.89 | 214353 | 10.49 | | | Average |
| | | | | | | | | | | |
| | CLIENT ID | | | | | | | | | |
| 01 | ICAL 0.25 | 231674 | 5.27 | 725271 | 7.22 | 328052 | 10.82 | | | 0310_07.D |
| 02 | ICAL 0.5 | 231764 | 5.26 | 716071 | 7.22 | 325712 | 10.82 | | | 0310_08.D |
| 03 | ICAL 2.5 | 239111 | 5.26 | 742576 | 7.22 | 339216 | 10.82 | | | 0310_09.D |
| 04 | ICAL 5 | 243477 | 5.26 | 754278 | 7.22 | 346423 | 10.82 | | | 0310_10.D |
| 05 | ICAL 25 | 260135 | 5.27 | 798759 | 7.22 | 370220 | 10.82 | | | 0310_11.D |
| 06 | ICAL 40 | 286481 | 5.27 | 853333 | 7.22 | 403308 | 10.82 | | | 0310_12.D |
| 07 | ICAL 1 | 267959 | 5.26 | 846753 | 7.22 | 386928 | 10.82 | | | 0310_14.D |
| 08 | ICAL 10 | 269022 | 5.26 | 840816 | 7.22 | 382200 | 10.82 | | | 0310_15.D |
| 09 | | | | | | | | | | |
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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: GC-ENV

Lab Code: Phoenix Case No.: _____ SAS No.: _____ SDG No.: GCH92051

Lab Method / File Id: 24AIR_0310.M / Average Date Analyzed: 03/10/21

Instrument ID: CHEM24 Time Analyzed: 16:57

GC Column: _____ 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 | 250628 | | 5.26 | | 752202 | | 7.22 | | 340118 | | 10.81 | | | | Average |
| | UPPER LIMIT | 352132 | | 5.59 | | 1056844 | | 7.55 | | 477866 | | 11.14 | | | | Average |
| | LOWER LIMIT | 149123 | | 4.93 | | 447560 | | 6.89 | | 202370 | | 10.48 | | | | Average |
| | | | | | | | | | | | | | | | | |
| | CLIENT ID | | | | | | | | | | | | | | | |
| 01 | ICAL 0.02 | 239682 | | 5.26 | | 722937 | | 7.21 | | 320823 | | 10.81 | | | | 0310_03.D |
| 02 | ICAL 0.035 | 241554 | | 5.26 | | 720639 | | 7.22 | | 325341 | | 10.81 | | | | 0310_04.D |
| 03 | ICAL 0.05 | 241998 | | 5.26 | | 722772 | | 7.21 | | 323127 | | 10.81 | | | | 0310_05.D |
| 04 | ICAL 0.1 | 245111 | | 5.26 | | 729909 | | 7.22 | | 323360 | | 10.81 | | | | 0310_06.D |
| 05 | ICAL 0.25 | 240292 | | 5.26 | | 725271 | | 7.22 | | 328052 | | 10.82 | | | | 0310_07.D |
| 06 | ICAL 0.5 | 241281 | | 5.27 | | 716071 | | 7.22 | | 325712 | | 10.82 | | | | 0310_08.D |
| 07 | ICAL 2.5 | 247774 | | 5.27 | | 742576 | | 7.22 | | 339216 | | 10.82 | | | | 0310_09.D |
| 08 | ICAL 5 | 254190 | | 5.27 | | 754278 | | 7.22 | | 346423 | | 10.82 | | | | 0310_10.D |
| 09 | ICAL 1 | 276144 | | 5.27 | | 846753 | | 7.22 | | 386928 | | 10.82 | | | | 0310_14.D |
| 10 | ICAL 10 | 278251 | | 5.27 | | 840816 | | 7.22 | | 382200 | | 10.82 | | | | 0310_15.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
AREA LOWER LIMIT = - 60% of internal standard area
RT UPPER LIMIT = +0.33 minutes of internal standard RT
RT LOWER LIMIT = -0.33 minutes of internal standard RT

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

FORM VIII VOA

8A
AIR INTERNAL STANDARD AREA AND RT SUMMARY
Full Scan

Lab Name: Phoenix Environmental Labs Client: GC-ENV

Lab Code: Phoenix Case No.: _____ SAS No.: _____ SDG No.: GCH92051

Lab Method / File Id: 24AIR_0310.M / 0405_34.D Date Analyzed: 04/06/21

Instrument ID: CHEM24 Time Analyzed: 10:58

GC Column: RTX-VMS 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 | 314567 | | 5.29 | | 1006915 | | 7.24 | | 455972 | | 10.83 | | | | 0405_34.D |
| UPPER LIMIT | 441967 | | 5.62 | | 1414716 | | 7.57 | | 640641 | | 11.16 | | | | 0405_34.D |
| LOWER LIMIT | 187167 | | 4.96 | | 599114 | | 6.91 | | 271303 | | 10.50 | | | | 0405_34.D |
| | | | | | | | | | | | | | | | |
| CLIENT ID | | | | | | | | | | | | | | | |
| 01 CCAL 1 | 314567 | | 5.29 | | 1006915 | | 7.24 | | 455972 | | 10.83 | | | | 0405_34.D |
| 02 CH91147 LCS | 325733 | | 5.29 | | 1050964 | | 7.24 | | 491489 | | 10.83 | | | | 0405_36.D |
| 03 CH91147 BLANK | 307096 | | 5.29 | | 974134 | | 7.24 | | 439644 | | 10.83 | | | | 0405_38.D |
| 04 CH91147 QC | 300750 | | 5.29 | | 949185 | | 7.24 | | 464459 | | 10.83 | | | | 0405_39.D |
| 05 91147 dup | 293903 | | 5.30 | | 924640 | | 7.24 | | 464767 | | 10.83 | | | | 0405_41.D |
| 06 SS-12 (5') | 298418 | | 5.30 | | 945366 | | 7.24 | | 438205 | | 10.83 | | | | 0405_42.D |
| 07 SS-7 | 298305 | | 5.30 | | 937894 | | 7.24 | | 441707 | | 10.83 | | | | 0405_43.D |
| 08 SS-5 | 311711 | | 5.29 | | 990087 | | 7.24 | | 458251 | | 10.83 | | | | 0405_44.D |
| 09 SS-10 (5') | 317245 | | 5.29 | | 1010207 | | 7.24 | | 463502 | | 10.83 | | | | 0405_45.D |
| 10 SS-6 | 314525 | | 5.30 | | 1023100 | | 7.24 | | 472386 | | 10.83 | | | | 0405_46.D |
| 11 SS-4 | 330522 | | 5.29 | | 1066233 | | 7.24 | | 508210 | | 10.83 | | | | 0405_47.D |
| 12 SS-11 (5') | 347970 | | 5.29 | | 1115770 | | 7.24 | | 519518 | | 10.83 | | | | 0405_48.D |
| 13 SS-9 (5') | 342806 | | 5.29 | | 1086342 | | 7.23 | | 507515 | | 10.83 | | | | 0405_49.D |
| 14 SS-1 | 350239 | | 5.29 | | 1111671 | | 7.23 | | 511860 | | 10.83 | | | | 0405_50.D |
| 15 SS-8 (4') | 341627 | | 5.29 | | 1110148 | | 7.23 | | 507037 | | 10.83 | | | | 0405_51.D |
| 16 SS-2 | 347489 | | 5.29 | | 1135596 | | 7.23 | | 516489 | | 10.83 | | | | 0405_52.D |
| 17 SS-3 | 365408 | | 5.29 | | 1166102 | | 7.24 | | 532514 | | 10.83 | | | | 0405_53.D |
| 18 IA-1 5X | 363148 | | 5.29 | | 1156929 | | 7.23 | | 521263 | | 10.82 | | | | 0405_54.D |
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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: GC-ENV

Lab Code: Phoenix Case No.: _____ SAS No.: _____ SDG No.: GCH92051

Lab Method / File Id: 24AIR_0310.M / 0405_34.D Date Analyzed: 04/06/21

Instrument ID: CHEM24 Time Analyzed: 10:58

GC Column: RTX-VMS 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 | 327904 | | 5.29 | | 1006915 | | 7.24 | | 455972 | | 10.83 | | | | 0405_34.D |
| | UPPER LIMIT | 460705 | | 5.62 | | 1414716 | | 7.57 | | 640641 | | 11.16 | | | | 0405_34.D |
| | LOWER LIMIT | 195103 | | 4.96 | | 599114 | | 6.91 | | 271303 | | 10.50 | | | | 0405_34.D |
| | | | | | | | | | | | | | | | | |
| | CLIENT ID | | | | | | | | | | | | | | | |
| 01 | CCAL 1 | 327904 | | 5.29 | | 1006915 | | 7.24 | | 455972 | | 10.83 | | | | 0405_34.D |
| 02 | CH91147 LCS | 336696 | | 5.30 | | 1050964 | | 7.24 | | 491489 | | 10.83 | | | | 0405_36.D |
| 03 | CH91147 BLANK | 319997 | | 5.30 | | 974134 | | 7.24 | | 439644 | | 10.83 | | | | 0405_38.D |
| 04 | CH91147 QC | 312885 | | 5.30 | | 949185 | | 7.24 | | 464459 | | 10.83 | | | | 0405_39.D |
| 05 | 91147 dup | 303751 | | 5.30 | | 924640 | | 7.24 | | 464767 | | 10.83 | | | | 0405_41.D |
| 06 | SS-12 (5') | 309468 | | 5.30 | | 945366 | | 7.24 | | 438205 | | 10.83 | | | | 0405_42.D |
| 07 | SS-7 | 307978 | | 5.30 | | 937894 | | 7.24 | | 441707 | | 10.83 | | | | 0405_43.D |
| 08 | SS-5 | 323024 | | 5.30 | | 990087 | | 7.24 | | 458251 | | 10.83 | | | | 0405_44.D |
| 09 | SS-10 (5') | 327704 | | 5.30 | | 1010207 | | 7.24 | | 463502 | | 10.83 | | | | 0405_45.D |
| 10 | SS-6 | 329178 | | 5.29 | | 1023100 | | 7.24 | | 472386 | | 10.83 | | | | 0405_46.D |
| 11 | SS-4 | 342976 | | 5.30 | | 1066233 | | 7.24 | | 508210 | | 10.83 | | | | 0405_47.D |
| 12 | SS-11 (5') | 360482 | | 5.30 | | 1115770 | | 7.24 | | 519518 | | 10.83 | | | | 0405_48.D |
| 13 | SS-9 (5') | 351880 | | 5.29 | | 1086342 | | 7.23 | | 507515 | | 10.83 | | | | 0405_49.D |
| 14 | SS-1 | 360727 | | 5.29 | | 1111671 | | 7.23 | | 511860 | | 10.83 | | | | 0405_50.D |
| 15 | SS-8 (4') | 354435 | | 5.29 | | 1110148 | | 7.23 | | 507037 | | 10.83 | | | | 0405_51.D |
| 16 | SS-2 | 360816 | | 5.29 | | 1135596 | | 7.23 | | 516489 | | 10.83 | | | | 0405_52.D |
| 17 | SS-3 | 373117 | | 5.30 | | 1166102 | | 7.24 | | 532514 | | 10.83 | | | | 0405_53.D |
| 18 | IA-1 5X | 373051 | | 5.28 | | 1156929 | | 7.23 | | 521263 | | 10.82 | | | | 0405_54.D |
| 19 | | | | | | | | | | | | | | | | |
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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
AREA LOWER LIMIT = - 60% of internal standard area
RT UPPER LIMIT = +0.33 minutes of internal standard RT
RT LOWER LIMIT = -0.33 minutes of internal standard RT

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

FORM VIII VOA

1

AIR ANALYSIS DATA SHEET

CLIENT ID: SS-12 (5')

Client: GC-ENV Lab: Phoenix Env. Labs

SDG No.: GCH92051 Lab Sample ID: CH92051

Canister: 469 Lab File ID: 0405_42.D

Instrument: CHEM24 Column: RTX-VMS Date Received: 04/05/21

Purge Volume 200 (cc) Date Analyzed: 04/06/21

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

| CAS NO. | COMPOUND | CONC. | Q | MDL | PQL | R |
|---|---|---|---|---|---|---|
| 115-07-1 | Propylene | 2.49 | | 0.581 | 0.581 | r |
| 75-71-8 | Dichlorodifluoromethane | 0.298 | | 0.202 | 0.202 | r |
| 74-87-3 | Chloromethane | 1.05 | | 0.485 | 0.485 | r |
| 106-99-0 | 1,3-Butadiene | 0.452 | U | 0.452 | 0.452 | r |
| 75-00-3 | Chloroethane | 0.379 | U | 0.379 | 0.379 | r |
| 64-17-5 | Ethanol | 17.4 | S | 0.531 | 0.531 | r |
| 67-64-1 | Acetone | 33.6 | S | 0.421 | 0.421 | r |
| 75-69-4 | Trichlorofluoromethane | 0.235 | | 0.178 | 0.178 | r |
| 67-63-0 | Isopropylalcohol | 2.01 | 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 | 4.21 | | 0.339 | 0.339 | r |
| 110-54-3 | Hexane | 0.292 | S | 0.284 | 0.284 | r |
| 141-78-6 | Ethyl acetate | 0.278 | U | 0.278 | 0.278 | r |
| 109-99-9 | Tetrahydrofuran | 2.32 | | 0.339 | 0.339 | r |
| 71-43-2 | Benzene | 0.586 | | 0.313 | 0.313 | r |
| 110-82-7 | Cyclohexane | 0.291 | U | 0.291 | 0.291 | r |
| 142-82-5 | Heptane | 0.354 | | 0.244 | 0.244 | r |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | 0.244 | U | 0.244 | 0.244 | r |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.221 | U | 0.221 | 0.221 | r |
| 108-88-3 | Toluene | 4.12 | | 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 | 0.725 | | 0.230 | 0.230 | r |
| 179601-23-1 | m,p-Xylene | 1.09 | | 0.230 | 0.230 | r |
| 100-42-5 | Styrene | 0.887 | | 0.235 | 0.235 | r |
| 95-47-6 | o-Xylene | 0.376 | | 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: SS-12 (5')

Client: GC-ENV Lab: Phoenix Env. Labs

SDG No.: GCH92051 Lab Sample ID: CH92051

Canister: 469 Lab File ID: 0405_42.D

Instrument: CHEM24 Column: RTX-VMS Date Received: 04/05/21

Purge Volume 200 (cc) Date Analyzed: 04/06/21

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) | 0.075 | | 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) | 0.221 | U | 0.221 | 0.221 | r |
| 79-00-5 | 1,1,2-Trichloroethane(sim) | 0.183 | U | 0.183 | 0.183 | r |
| 124-48-1 | Dibromochloromethane(sim) | 0.118 | U | 0.118 | 0.118 | r |
| 106-93-4 | 1,2-Dibromoethane(EDB)(sim) | 0.130 | U | 0.130 | 0.130 | r |
| 127-18-4 | Tetrachloroethene(sim) | 0.049 | | 0.037 | 0.037 | r |
| 75-25-2 | Bromoform(sim) | 0.097 | U | 0.097 | 0.097 | r |
| 630-20-6 | 1,1,1,2-Tetrachloroethane(sim) | 0.146 | U | 0.146 | 0.146 | r |
| 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 |
| | | | | | | |
| | | | | | | |
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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:\AIR2021\CHEM24\04APR\05\
Data File : 0405_42.D
Acq On : 6 Apr 2021 4:30 pm
Operator : Keith
Client ID : SS-12 (5')
Lab ID : CH92051
ALS Vial : 40 Sample Multiplier: 1

Quant Time: Apr 07 08:15:16 2021
Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 26 09:02:26 2021
Response via : Initial Calibration

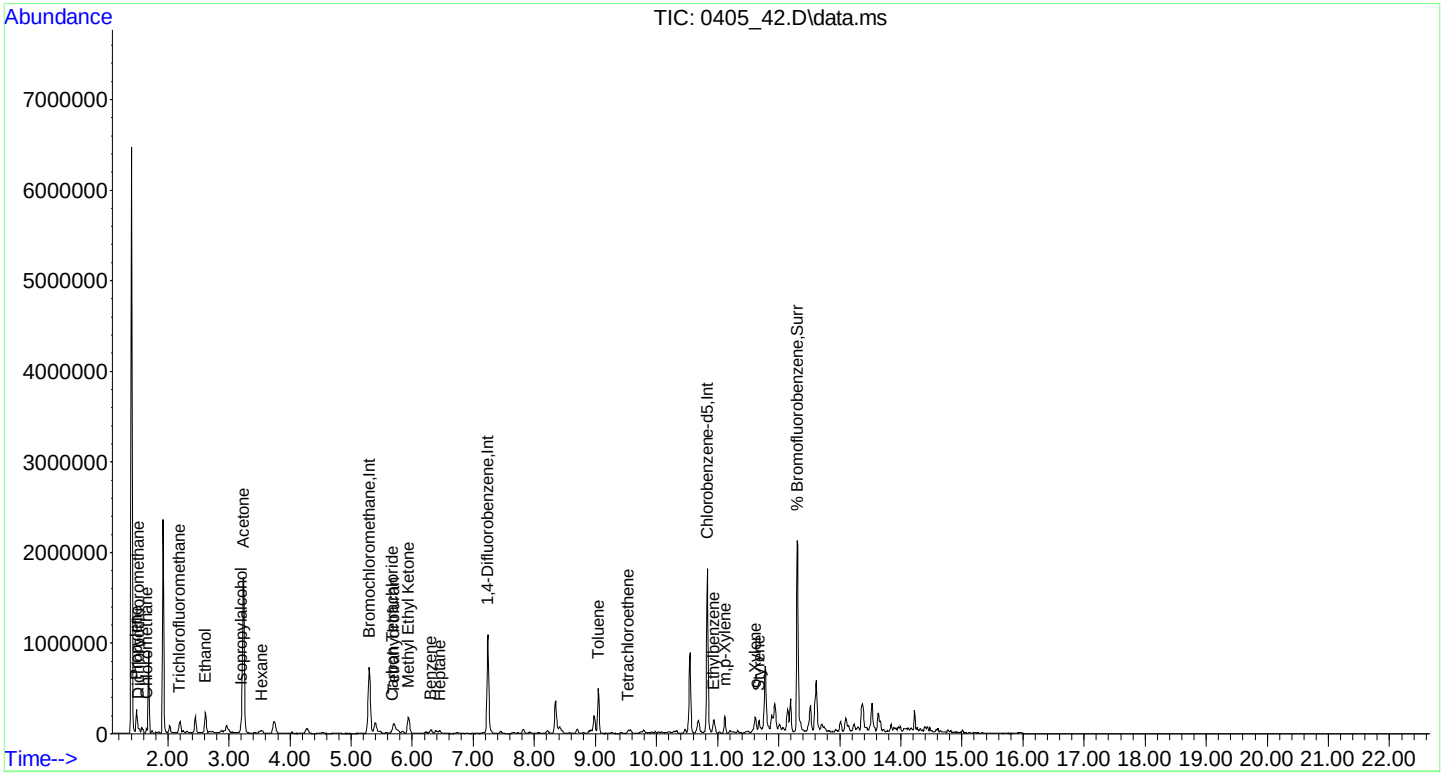
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Bromochloromethane | 5.296 | 130 | 298418 | 10.000 | ng | | 0.03 |
| 36) 1,4-Difluorobenzene | 7.240 | 114 | 945366 | 10.000 | ng | | 0.02 |
| 53) Chlorobenzene-d5 | 10.831 | 82 | 438205 | 10.000 | ng | | 0.02 |
| 80) Bromochloromethane(sim) | 5.299 | 130 | 309468 | 10.000 | ng | # | 0.03 |
| 95) 1,4-Difluorobenzene(sim) | 7.240 | 114 | 945366 | 10.000 | ng | | 0.02 |
| 105) Chlorobenzene-d5(sim) | 10.831 | 82 | 438205 | 10.000 | ng | | 0.02 |
| System Monitoring Compounds | | | | | | | |
| 62) % Bromofluorobenzene | 12.304 | 95 | 615779 | 10.132 | ppbv | | 0.00 |
| Spiked Amount 10.000 | Range 70 - 130 | | Recovery = 101.30% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) Propylene | 1.485 | 41 | 74016 | 2.492 | ppbv | | 92 |
| 3) Dichlorodifluoromethane | 1.519 | 85 | 16260 | 0.298 | ppbv# | | 97 |
| 4) Chloromethane | 1.650 | 50 | 43345 | 1.052 | ppbv | | 86 |
| 10) Ethanol | 2.615 | 45 | 230877 | 17.413 | ppbv | | 94 |
| 12) Acetone | 3.238 | 43 | 2578473 | 33.612 | ppbv | | 96 |
| 13) Trichlorofluoromethane | 2.191 | 101 | 17994 | 0.235 | ppbv# | | 97 |
| 14) Isopropylalcohol | 3.203 | 45 | 136766 | 2.010 | ppbv# | | 1 |
| 25) Methyl Ethyl Ketone | 5.937 | 43 | 332909 | 4.209 | ppbv | | 98 |
| 27) Hexane | 3.539 | 57 | 15525 | 0.291 | ppbv# | | 63 |
| 30) Tetrahydrofuran | 5.699 | 41 | 60764 | 2.323 | ppbv# | | 90 |
| 33) Benzene | 6.309 | 78 | 36269 | 0.585 | ppbv | | 94 |
| 34) Carbon Tetrachloride | 5.671 | 117 | 5655 | 0.079 | ppbv | | 98 |
| 43) Heptane | 6.446 | 43 | 23858 | 0.353 | ppbv | | 92 |
| 48) Toluene | 9.048 | 91 | 317251 | 4.119 | ppbv | | 100 |
| 52) Tetrachloroethene | 9.532 | 166 | 2298 | 0.050 | ppbv | | 96 |
| 56) Ethylbenzene | 10.934 | 91 | 79699 | 0.725 | ppbv | | 98 |
| 57) m,p-Xylene | 11.119 | 91 | 90338 | 1.092 | ppbv | | 98 |
| 59) Styrene | 11.682 | 104 | 52617 | 0.887 | ppbv | | 100 |
| 61) o-Xylene | 11.614 | 91 | 31055 | 0.376 | ppbv | | 98 |
| 84] Trichlorofluoromethane... | 2.194 | 101 | 18983 | 0.216 | ppbv | | 100 |
| 86] Benzene(sim) | 6.305 | 78 | 38956 | 0.541 | ppbv | | 97 |
| 87] Carbon Tetrachloride(sim) | 5.671 | 117 | 5655 | 0.075 | ppbv | | 97 |
| 104] Tetrachloroethene(sim) | 9.528 | 166 | 2403 | 0.049 | ppbv | | 97 |
| 108] Ethylbenzene(sim) | 10.937 | 91 | 83157 | 0.694 | ppb | | 99 |
| 109] m,p-Xylene(sim) | 11.119 | 91 | 90543 | 1.110 | ppbv | | 98 |
| 110] o-Xylene(sim) | 11.616 | 91 | 33199 | 0.389 | ppb # | | 96 |

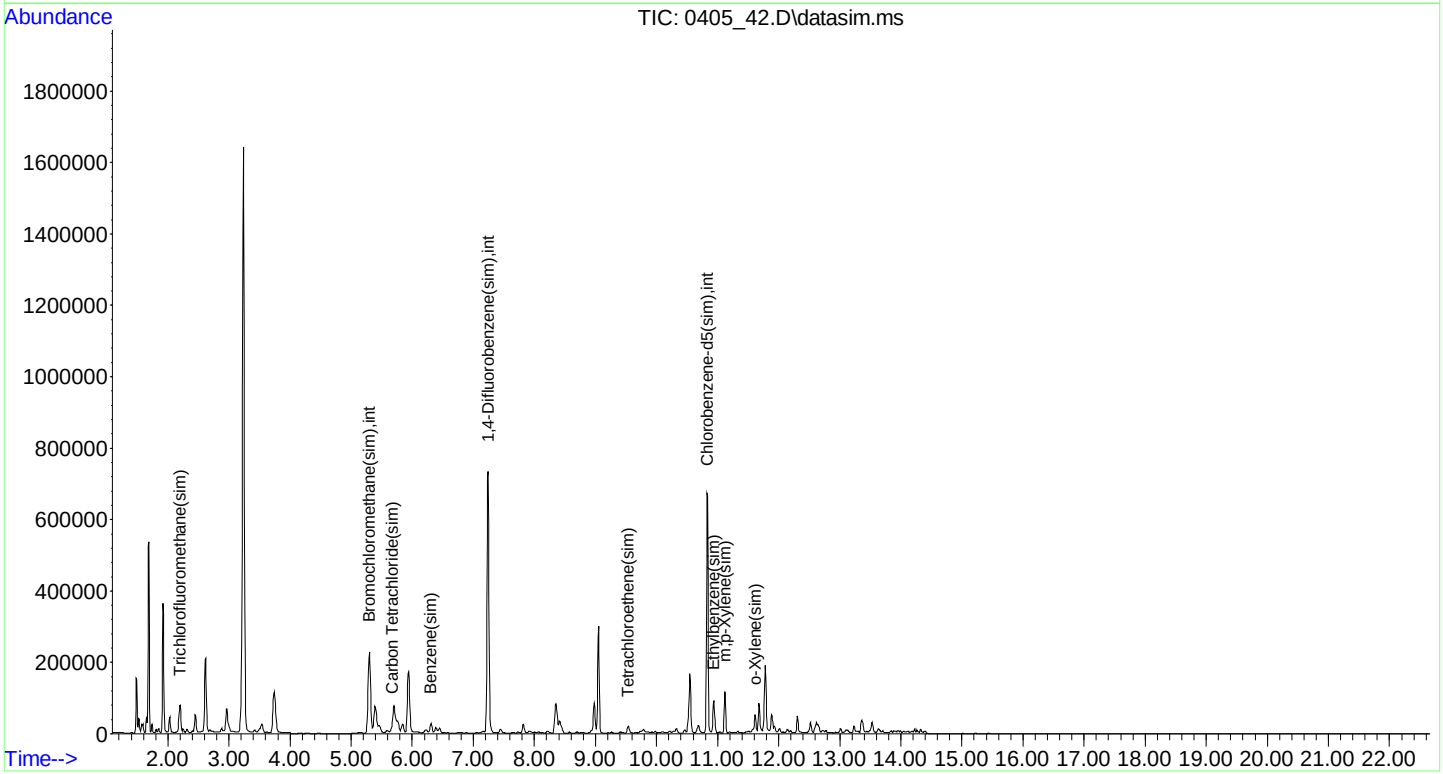
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

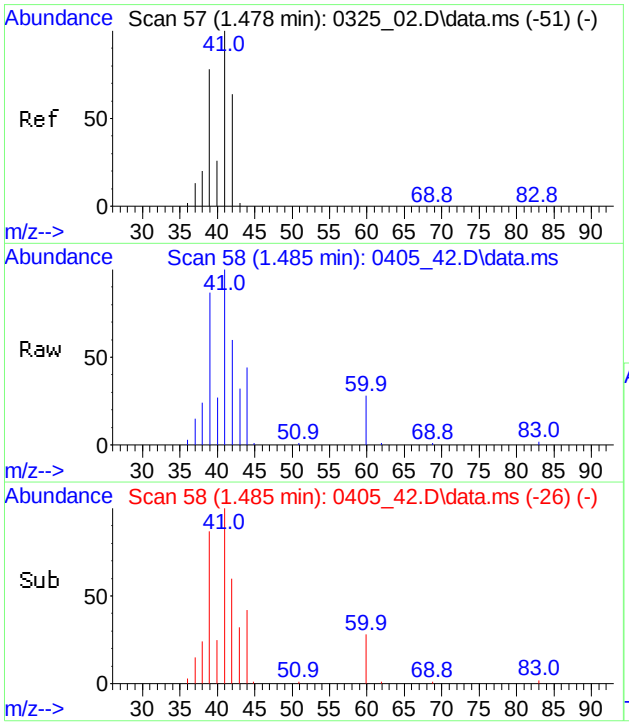
Quantitation Report (QT Reviewed)

Data Path : H:\AIR2021\CHEM24\04APR\05\
Data File : 0405_42.D
Acq On : 6 Apr 2021 4:30 pm
Operator : Keith
Client ID : SS-12 (5')
Lab ID : CH92051
ALS Vial : 40 Sample Multiplier: 1

Quant Time: Apr 07 08:15:16 2021
Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 26 09:02:26 2021
Response via : Initial Calibration



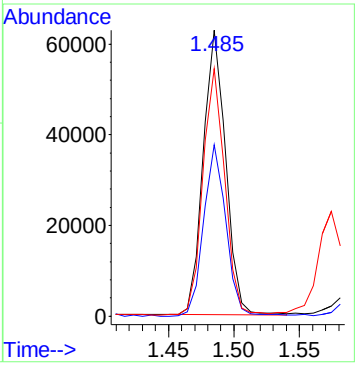



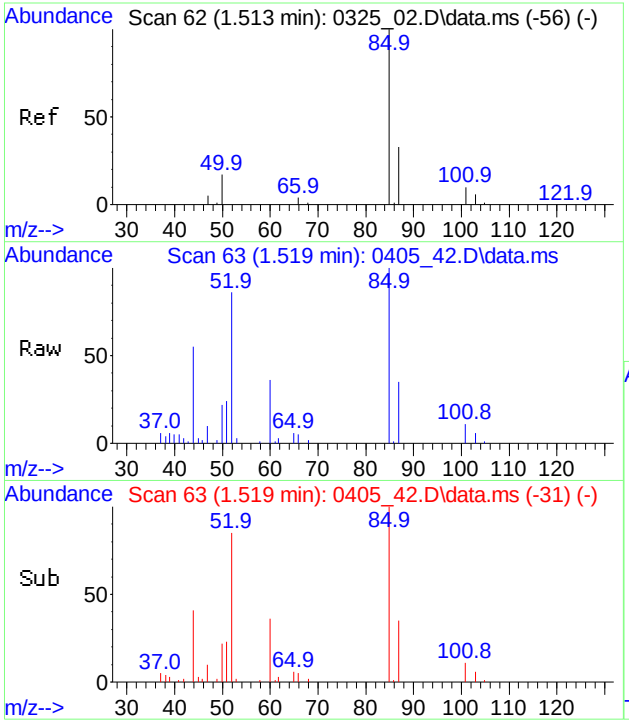



#2
Propylene
Conc: 8$ 2.492 ppbv
RT: 1.485 min Scan# 58
Delta R.T. 0.021 min
Lab File: 0405_42.D
Acq: 6 Apr 2021 4:30 pm

Tgt Ion: 41 Resp: 74016

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 59.9 | 52.0 | 78.0 |
| 39 | 84.6 | 61.8 | 92.6 |

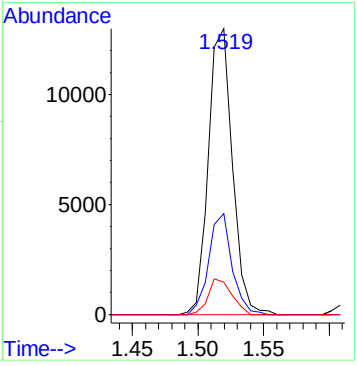


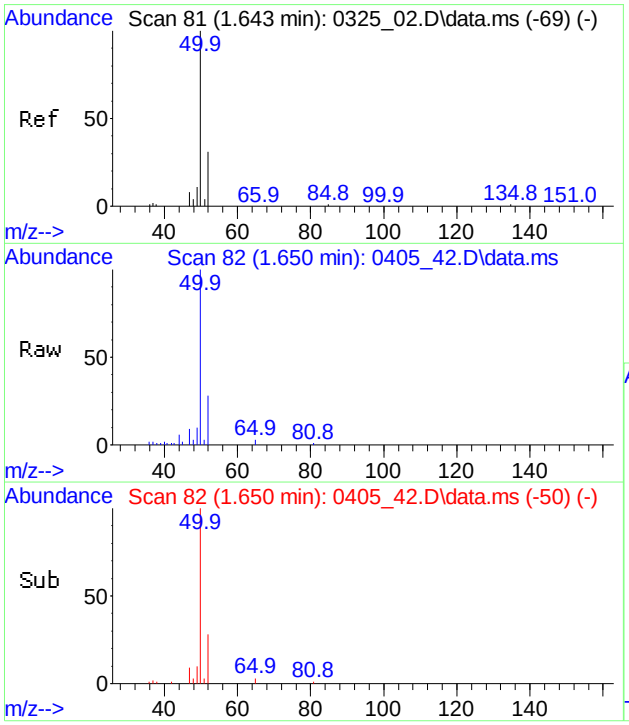




#3
Dichlorodifluoromethane
Conc: 8$ 0.298 ppbv
RT: 1.519 min Scan# 63
Delta R.T. 0.020 min
Lab File: 0405_42.D
Acq: 6 Apr 2021 4:30 pm

Tgt Ion: 85 Resp: 16260

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 34.1 | 26.6 | 40.0 |
| 101 | 12.2 | 7.9 | 11.9# |

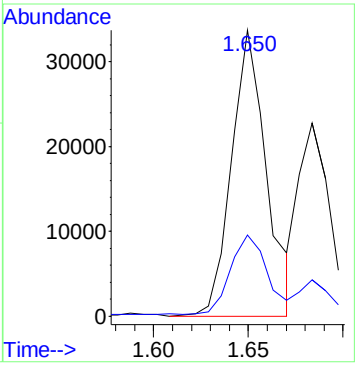


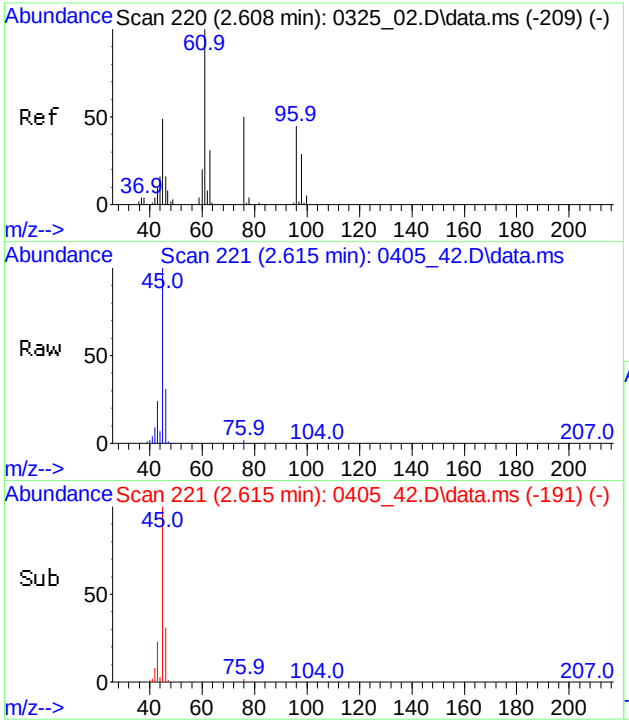



#4
Chloromethane
Conc: 8$ 1.052 ppbv
RT: 1.650 min Scan# 82
Delta R.T. 0.021 min
Lab File: 0405_42.D
Acq: 6 Apr 2021 4:30 pm

Tgt Ion: 50 Resp: 43345

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 31.1 | 4.0 | 44.0 |

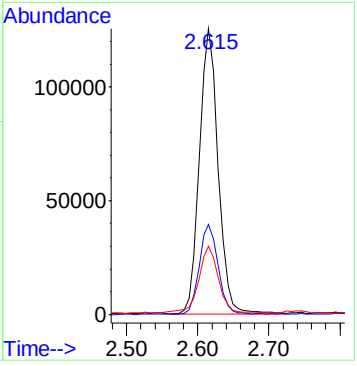


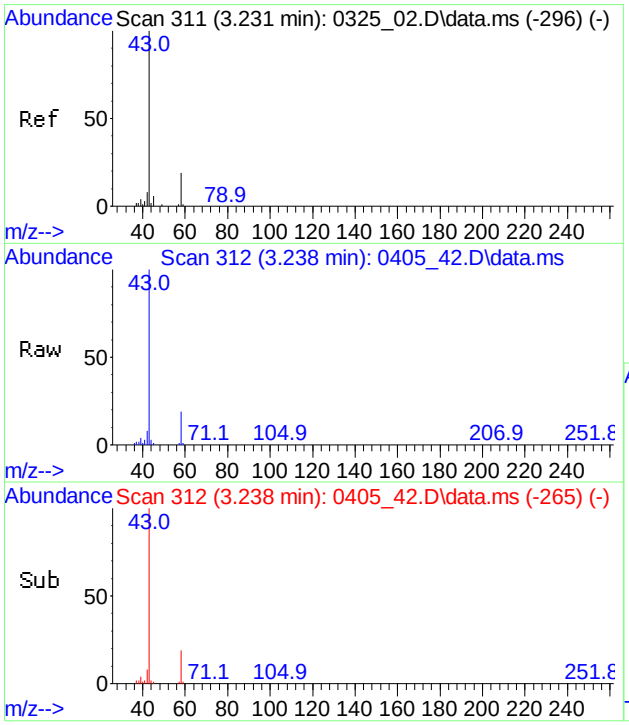




#10
Ethanol
Conc: 8$ 17.413 ppbv
RT: 2.615 min Scan# 221
Delta R.T. 0.020 min
Lab File: 0405_42.D
Acq: 6 Apr 2021 4:30 pm

Tgt Ion: 45 Resp: 230877

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 31.5 | 27.8 | 41.6 |
| 43 | 24.3 | 17.3 | 25.9 |

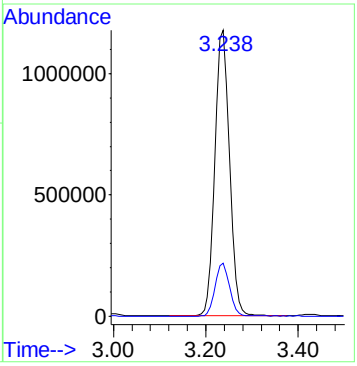


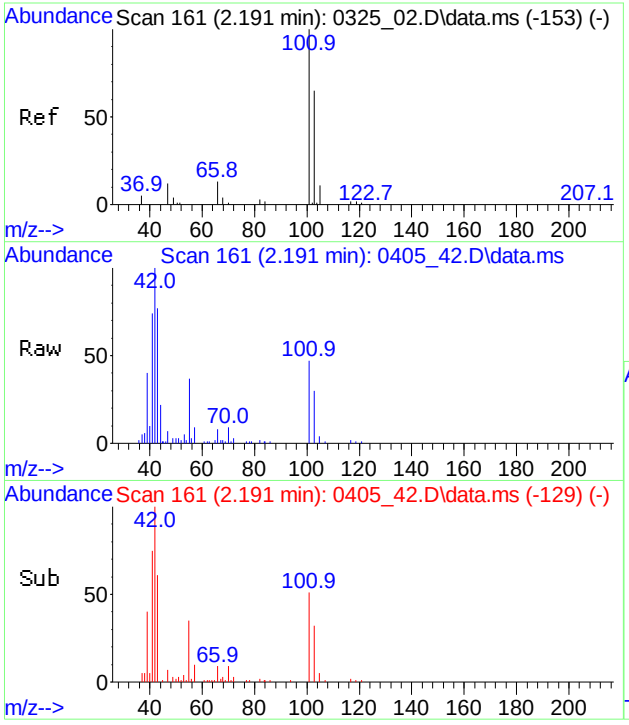



#12
Acetone
Conc: 8$ 33.612 ppbv
RT: 3.238 min Scan# 312
Delta R.T. 0.021 min
Lab File: 0405_42.D
Acq: 6 Apr 2021 4:30 pm

Tgt Ion: 43 Resp: 2578473

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 18.3 | 13.2 | 19.8 |

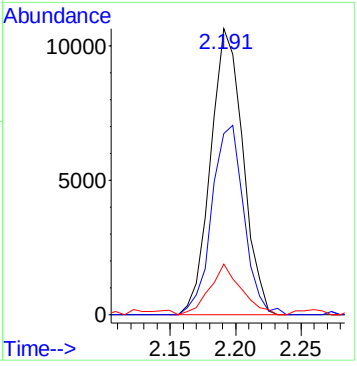


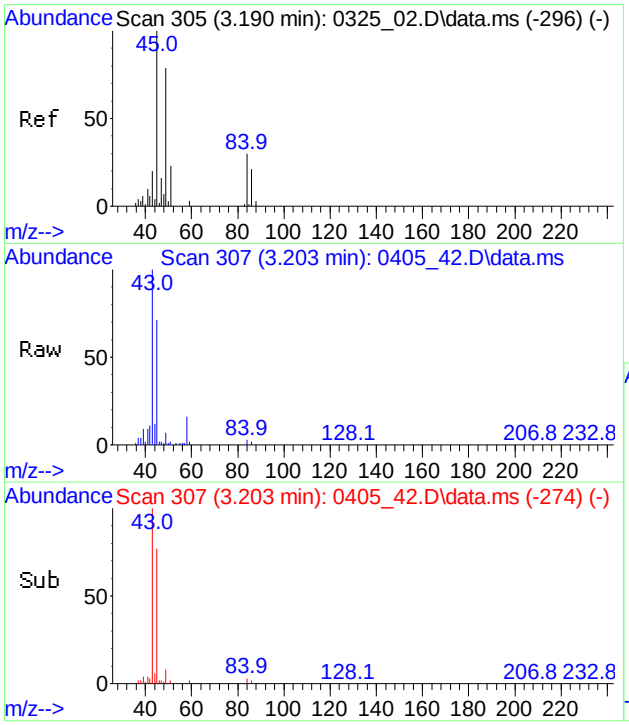




#13
Trichlorofluoromethane
Conc: 8$ 0.235 ppbv
RT: 2.191 min Scan# 161
Delta R.T. 0.021 min
Lab File: 0405_42.D
Acq: 6 Apr 2021 4:30 pm

Tgt Ion:101 Resp: 17994

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 65.7 | 51.5 | 77.3 |
| 66 | 17.1 | 10.6 | 15.8# |

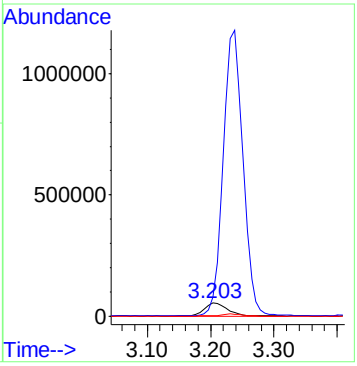


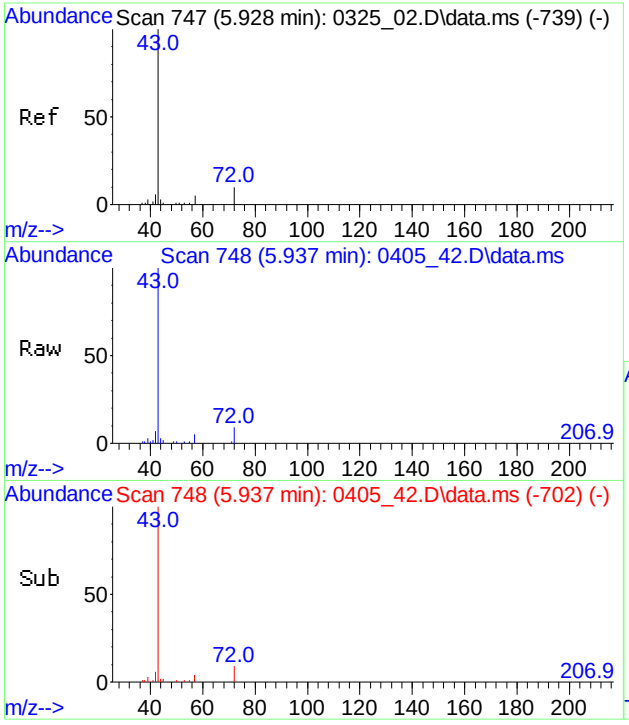



#14
Isopropylalcohol
Conc: 8$ 2.010 ppbv
RT: 3.203 min Scan# 307
Delta R.T. 0.027 min
Lab File: 0405_42.D
Acq: 6 Apr 2021 4:30 pm

Tgt Ion: 45 Resp: 136766

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 1884.9 | 84.1 | 126.1# |
| 59 | 14.5 | 2.6 | 4.0# |

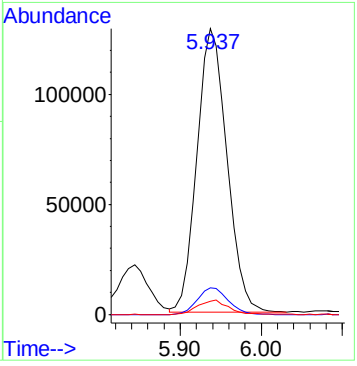


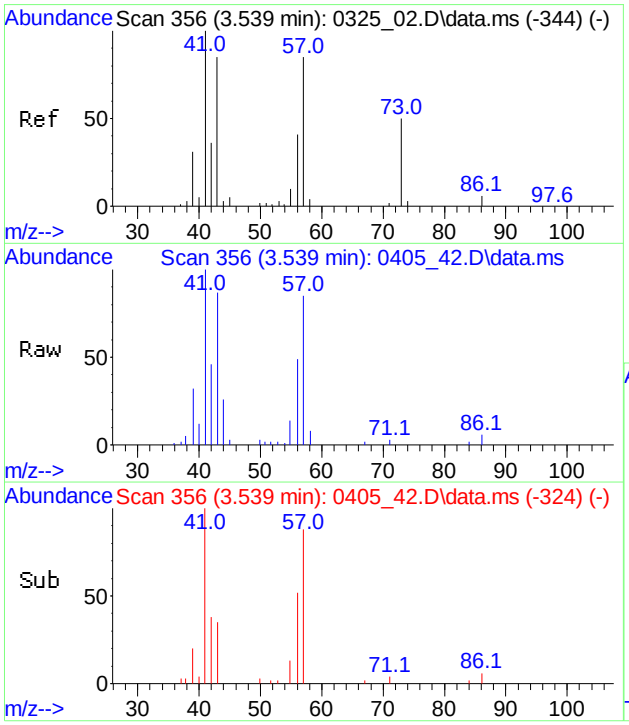




#25
Methyl Ethyl Ketone
Conc: 8$ 4.209 ppbv
RT: 5.937 min Scan# 748
Delta R.T. 0.031 min
Lab File: 0405_42.D
Acq: 6 Apr 2021 4:30 pm

Tgt Ion: 43 Resp: 332909

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 9.6 | 8.5 | 12.7 |
| 57 | 5.1 | 4.2 | 6.4 |

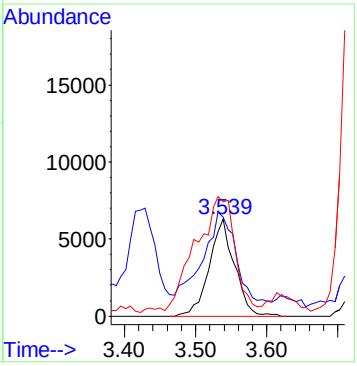


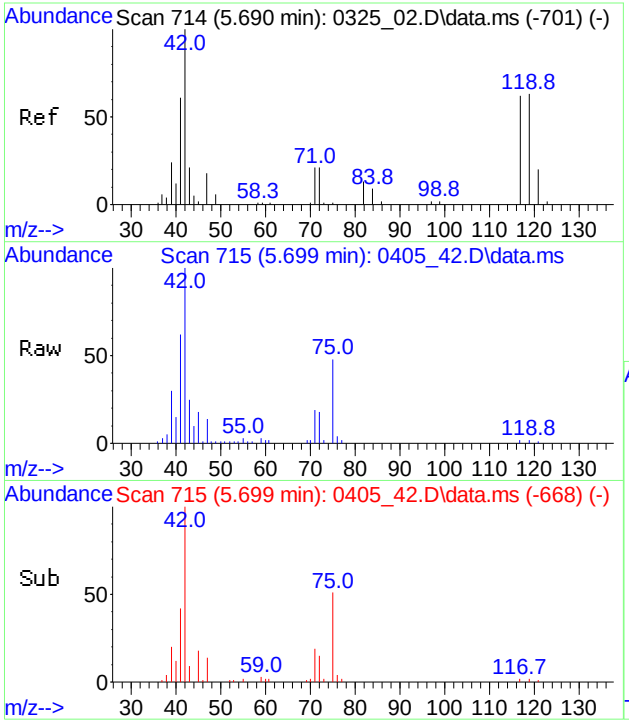



#27
Hexane
Conc: 8$ 0.291 ppbv
RT: 3.539 min Scan# 356
Delta R.T. 0.021 min
Lab File: 0405_42.D
Acq: 6 Apr 2021 4:30 pm

Tgt Ion: 57 Resp: 15525

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 43 | 122.3 | 83.3 | 124.9 |
| 41 | 179.0 | 95.6 | 143.4# |

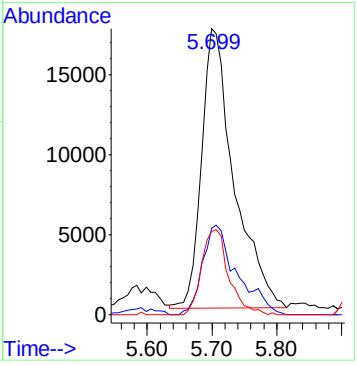


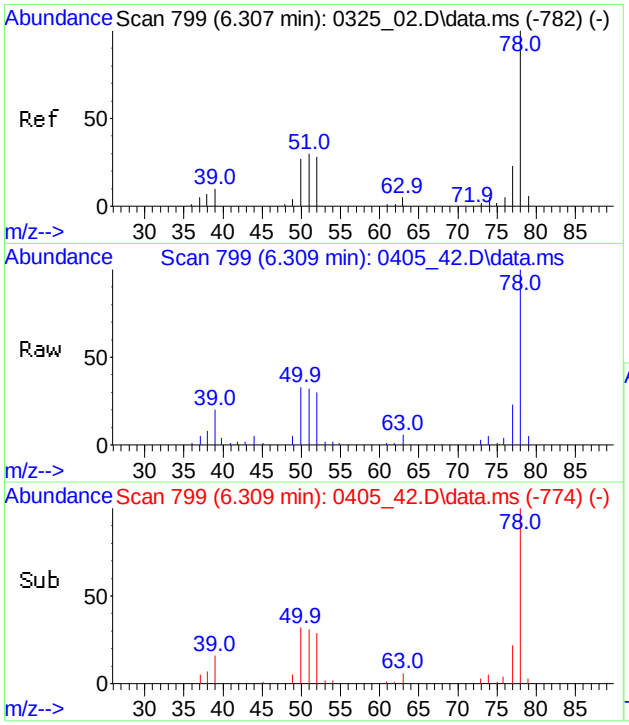




#30
Tetrahydrofuran
Conc: 8$ 2.323 ppbv
RT: 5.699 min Scan# 715
Delta R.T. 0.038 min
Lab File: 0405_42.D
Acq: 6 Apr 2021 4:30 pm

Tgt Ion: 41 Resp: 60764

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 71 | 33.7 | 28.6 | 42.8 |
| 72 | 25.2 | 28.1 | 42.1# |

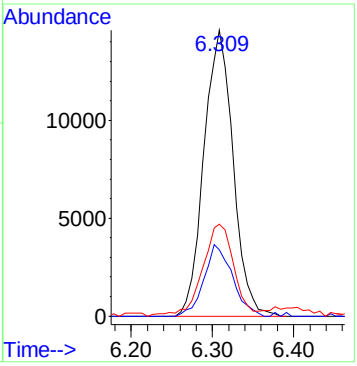


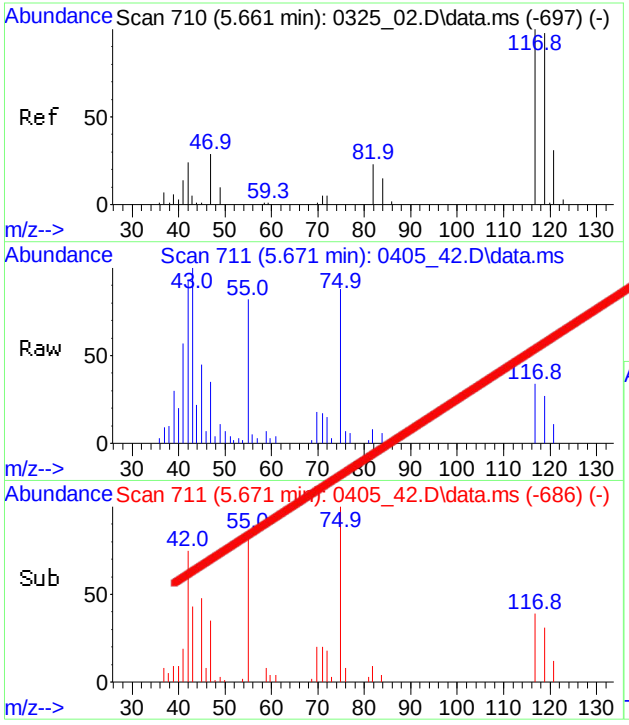



#33
Benzene
Conc: 8$ 0.585 ppbv
RT: 6.309 min Scan# 799
Delta R.T. 0.023 min
Lab File: 0405_42.D
Acq: 6 Apr 2021 4:30 pm

Tgt Ion: 78 Resp: 36269

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 24.3 | 18.2 | 27.2 |
| 51 | 34.5 | 24.2 | 36.2 |

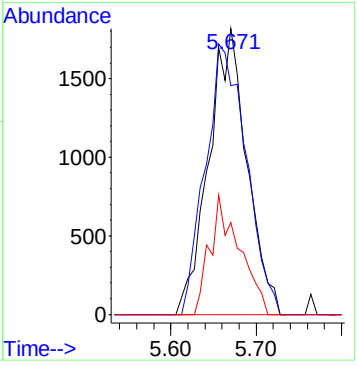


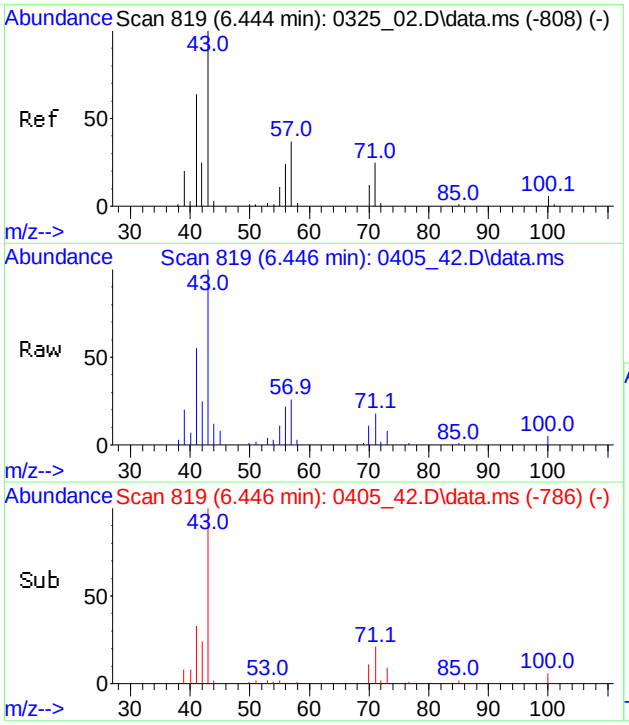




#34
Carbon Tetrachloride
Conc: 8$ Below Cal
RT: 5.671 min Scan# 711
Delta R.T. 0.032 min
Lab File: 0405_42.D
Acq: 6 Apr 2021 4:30 pm

Tgt Ion:117 Resp: 5655

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 101.1 | 78.0 | 118.0 |
| 121 | 32.4 | 12.1 | 52.1 |

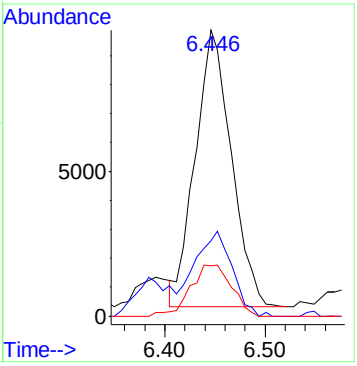


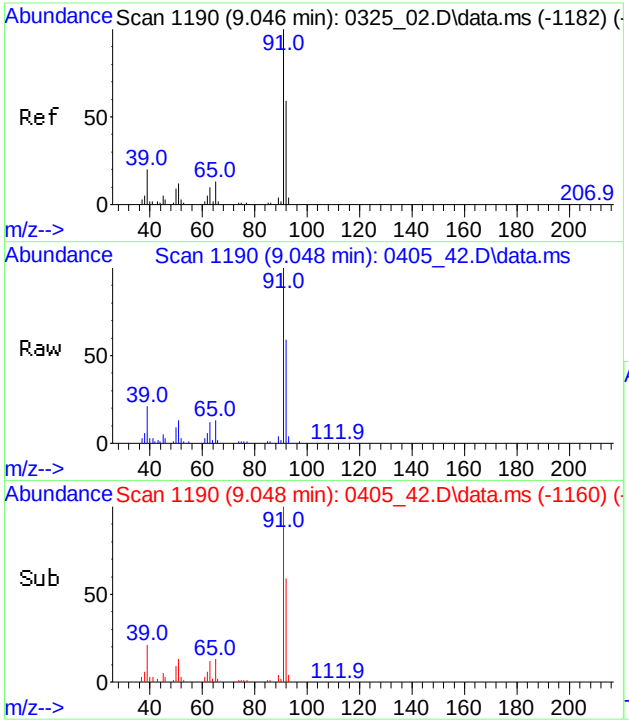



#43
Heptane
Conc: 8$ 0.353 ppbv
RT: 6.446 min Scan# 819
Delta R.T. 0.023 min
Lab File: 0405_42.D
Acq: 6 Apr 2021 4:30 pm

Tgt Ion: 43 Resp: 23858

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 57 | 31.9 | 29.5 | 44.3 |
| 71 | 21.0 | 19.8 | 29.8 |

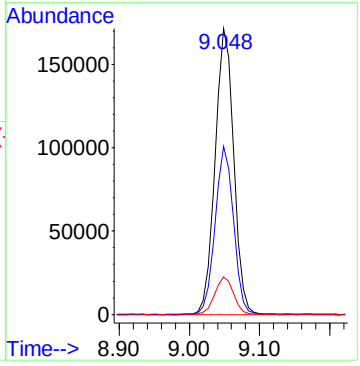


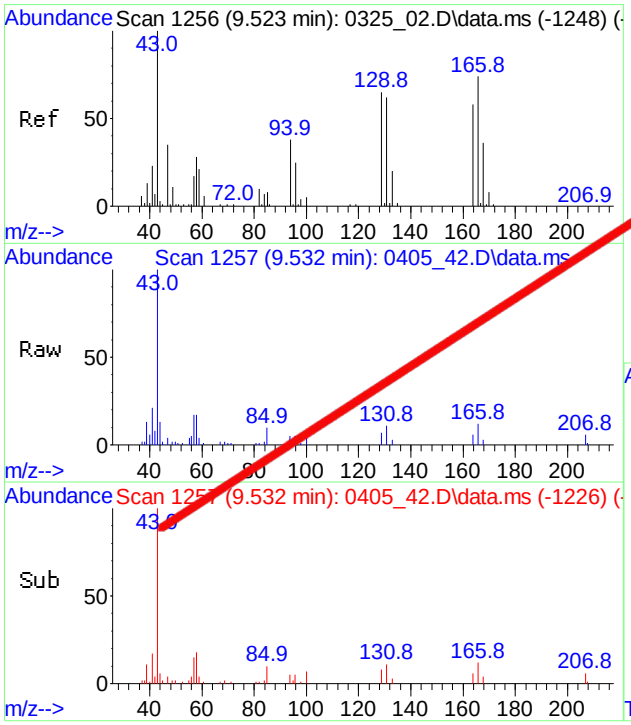




#48
Toluene
Conc: 8$ 4.119 ppbv
RT: 9.048 min Scan# 1190
Delta R.T. 0.016 min
Lab File: 0405_42.D
Acq: 6 Apr 2021 4:30 pm

Tgt Ion: 91 Resp: 317251

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 57.9 | 46.3 | 69.5 |
| 65 | 13.2 | 10.1 | 15.1 |

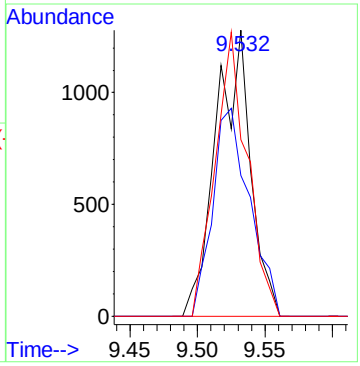


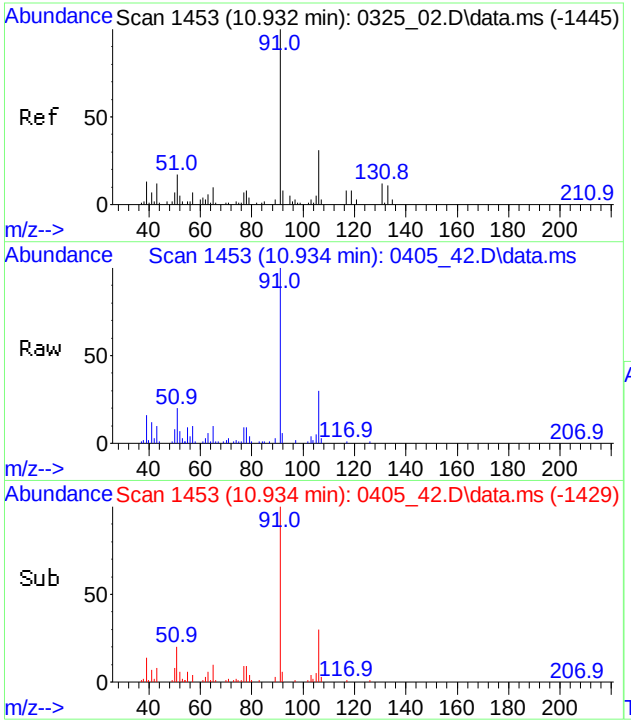



#52
Tetrachloroethene
Conc: 8$  Below Cal
RT:  9.532 min  Scan# 1257
Delta R.T.  0.024 min
Lab File:  0405_42.D
Acq:  6 Apr 2021  4:30 pm

Tgt Ion:166 Resp:  2298

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 164 | 77.0 | 62.2 | 93.4 |
| 129 | 91.3 | 68.3 | 102.5 |

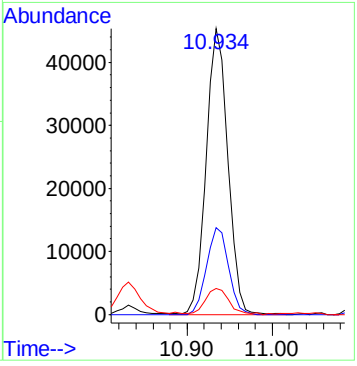


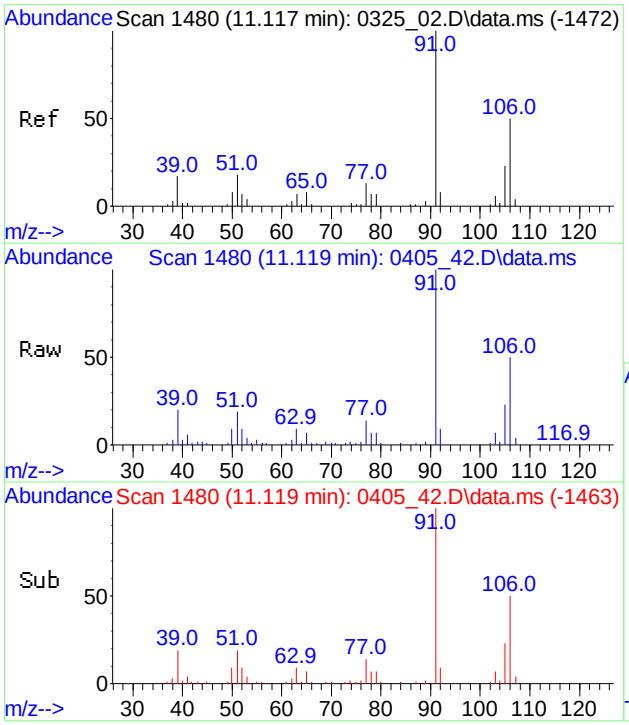




#56
Ethylbenzene
Conc: 8$  0.725 ppbv
RT:  10.934 min  Scan# 1453
Delta R.T.  0.016 min
Lab File:  0405_42.D
Acq:  6 Apr 2021  4:30 pm

Tgt Ion: 91 Resp:  79699

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 30.6 | 11.4 | 51.4 |
| 77 | 9.9 | 0.0 | 28.7 |

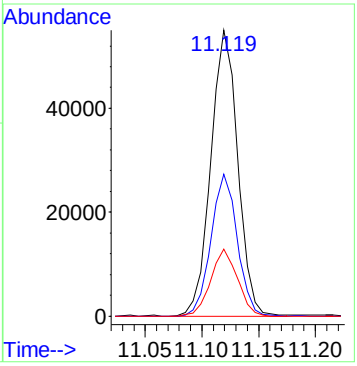


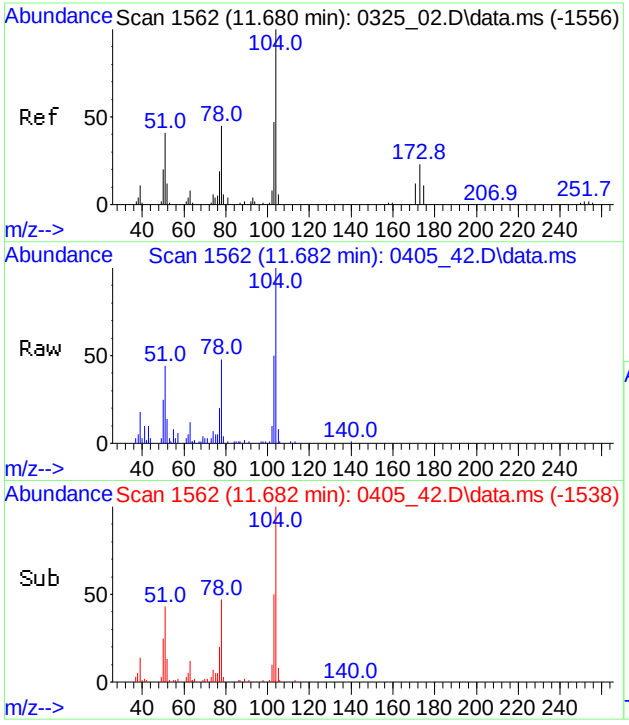



#57
m,p-Xylene
Conc: 8$ 1.092 ppbv
RT: 11.119 min Scan# 1480
Delta R.T. 0.015 min
Lab File: 0405_42.D
Acq: 6 Apr 2021 4:30 pm

Tgt Ion: 91 Resp: 90338

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 48.4 | 39.8 | 59.8 |
| 105 | 23.2 | 18.2 | 27.4 |

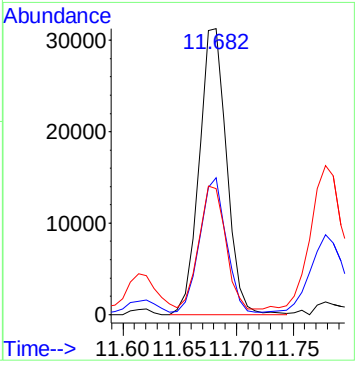


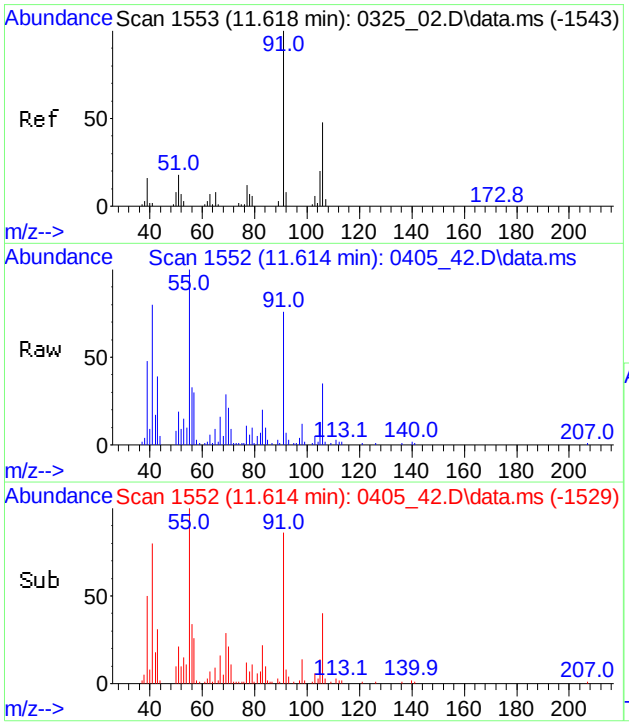




#59
Styrene
Conc: 8$ 0.887 ppbv
RT: 11.682 min Scan# 1562
Delta R.T. 0.016 min
Lab File: 0405_42.D
Acq: 6 Apr 2021 4:30 pm

Tgt Ion:104 Resp: 52617

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 45.3 | 36.2 | 54.4 |
| 51 | 41.6 | 33.0 | 49.6 |

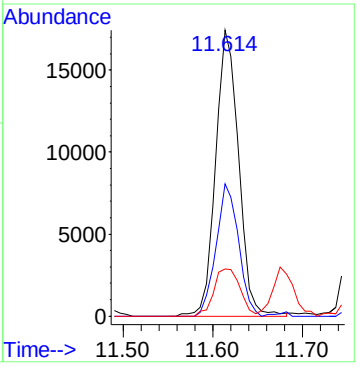


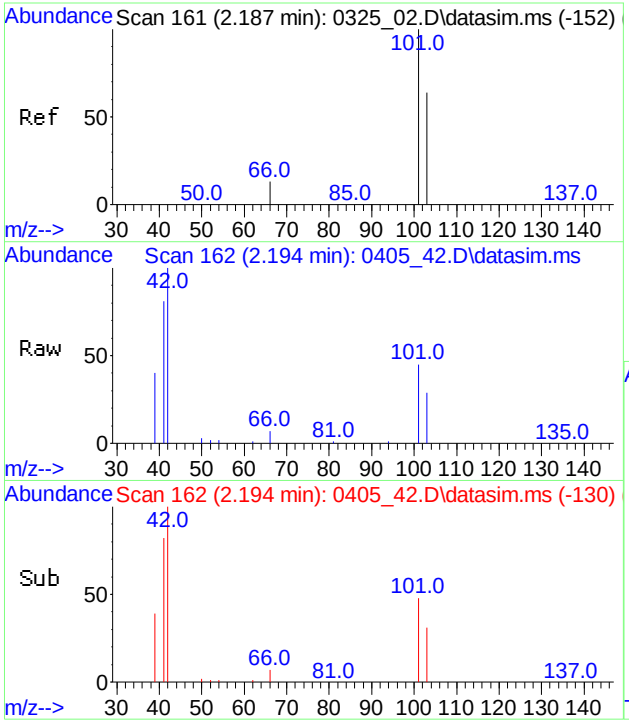



#61
o-Xylene
Conc: 8$ 0.376 ppbv
RT: 11.614 min Scan# 1552
Delta R.T. 0.010 min
Lab File: 0405_42.D
Acq: 6 Apr 2021 4:30 pm

Tgt Ion: 91 Resp: 31055

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 45.1 | 37.5 | 56.3 |
| 105 | 18.8 | 15.1 | 22.7 |

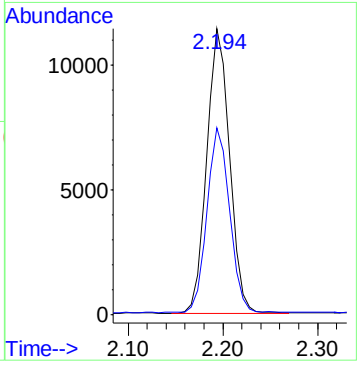


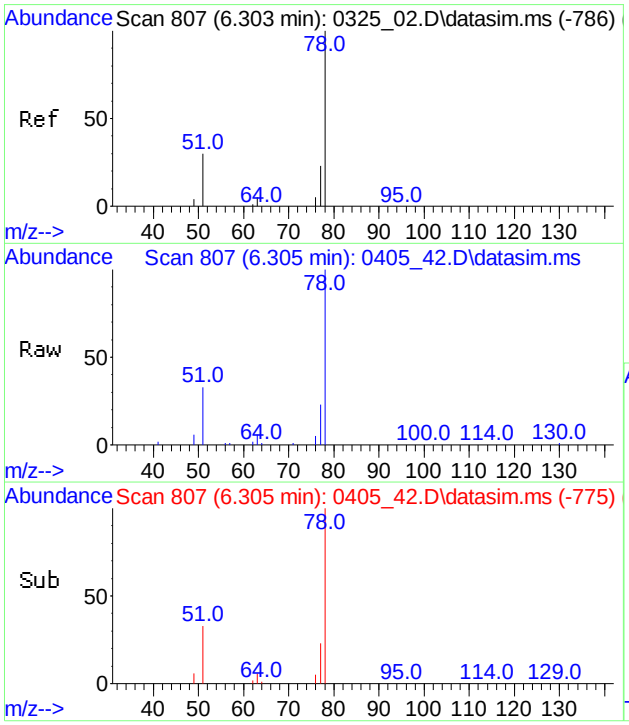




#84
Trichlorofluoromethane(sim)
Conc: 8$ 0.216 ppbv
RT: 2.194 min Scan# 162
Delta R.T. 0.021 min
Lab File: 0405_42.D
Acq: 6 Apr 2021 4:30 pm

Tgt Ion:101 Resp: 18983

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 64.5 | 51.9 | 77.9 |

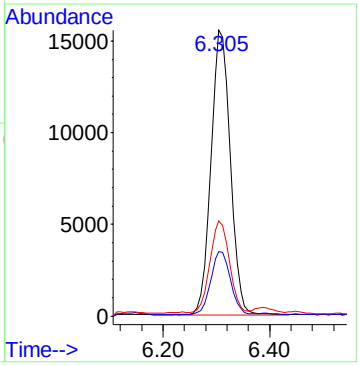


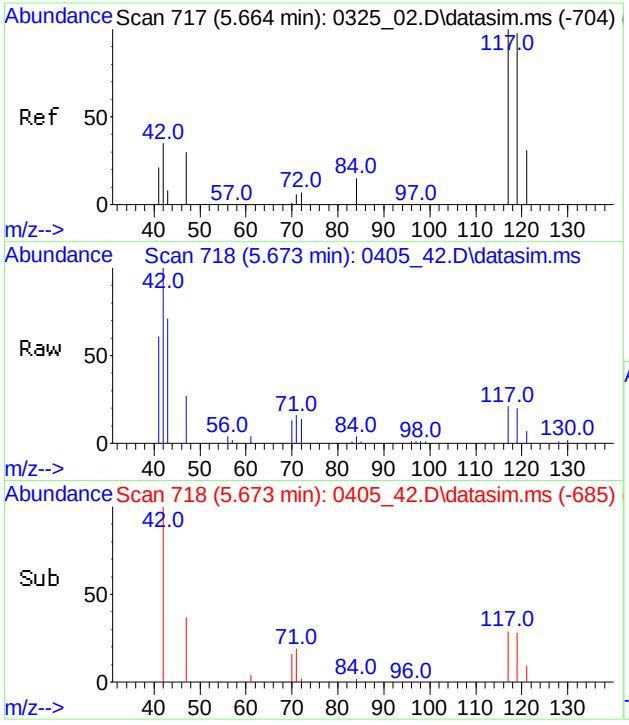



#86
Benzene(sim)
Conc: 8$ 0.541 ppbv
RT: 6.305 min Scan# 807
Delta R.T. 0.023 min
Lab File: 0405_42.D
Acq: 6 Apr 2021 4:30 pm

Tgt Ion: 78 Resp: 38956

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 22.3 | 18.0 | 27.0 |
| 51 | 32.5 | 23.9 | 35.9 |

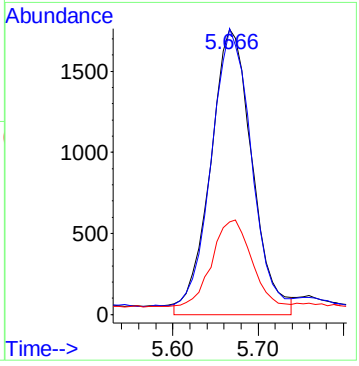


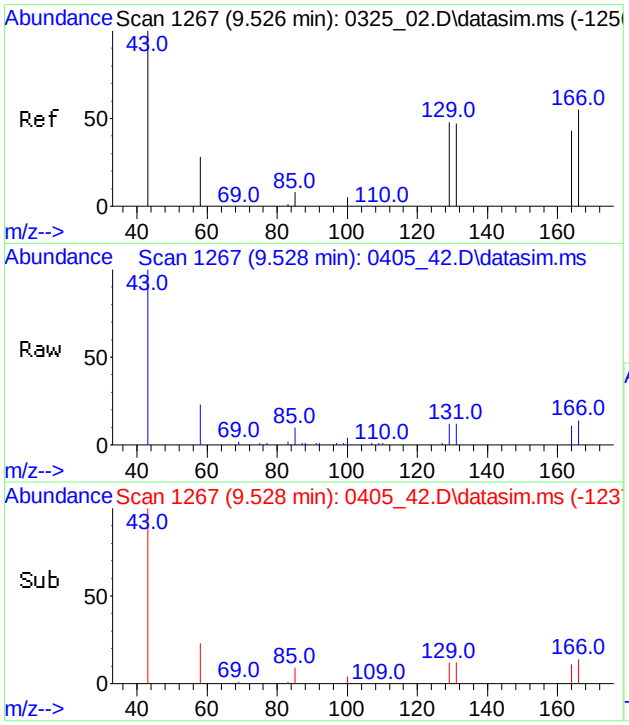




#87
Carbon Tetrachloride(sim)
Conc: 8$ 0.075 ppbv
RT: 5.671 min Scan# 718
Delta R.T. 0.032 min
Lab File: 0405_42.D
Acq: 6 Apr 2021 4:30 pm

Tgt Ion:117 Resp: 5655

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 99.4 | 78.4 | 117.6 |
| 121 | 28.5 | 25.7 | 38.5 |

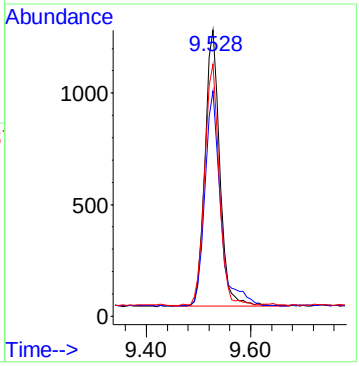


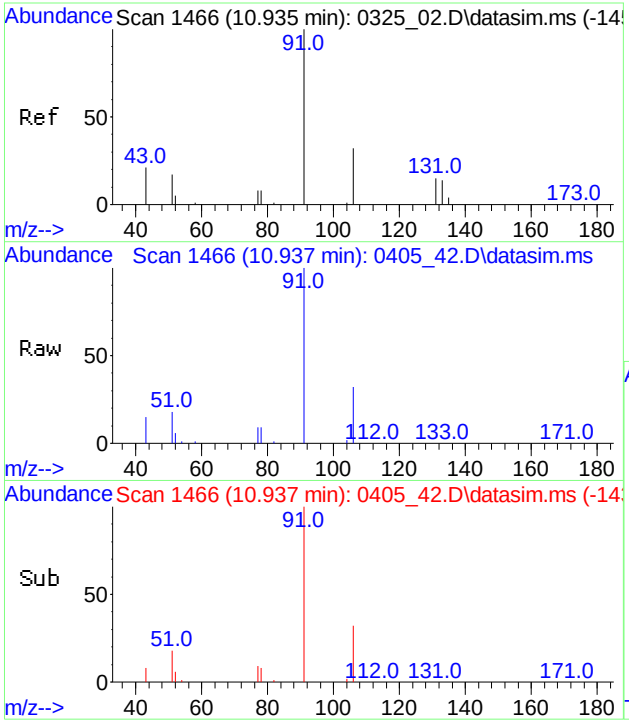



#104
Tetrachloroethene(sim)
Conc: 8$ 0.049 ppbv
RT: 9.528 min Scan# 1267
Delta R.T. 0.017 min
Lab File: 0405_42.D
Acq: 6 Apr 2021 4:30 pm

Tgt Ion:166 Resp: 2403

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 164 | 83.2 | 58.4 | 98.4 |
| 129 | 87.1 | 66.6 | 106.6 |

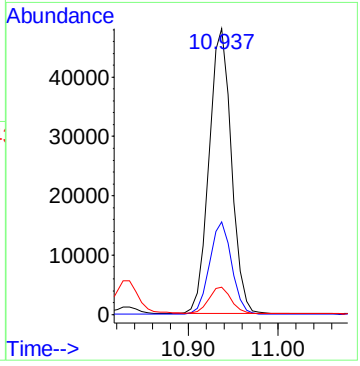


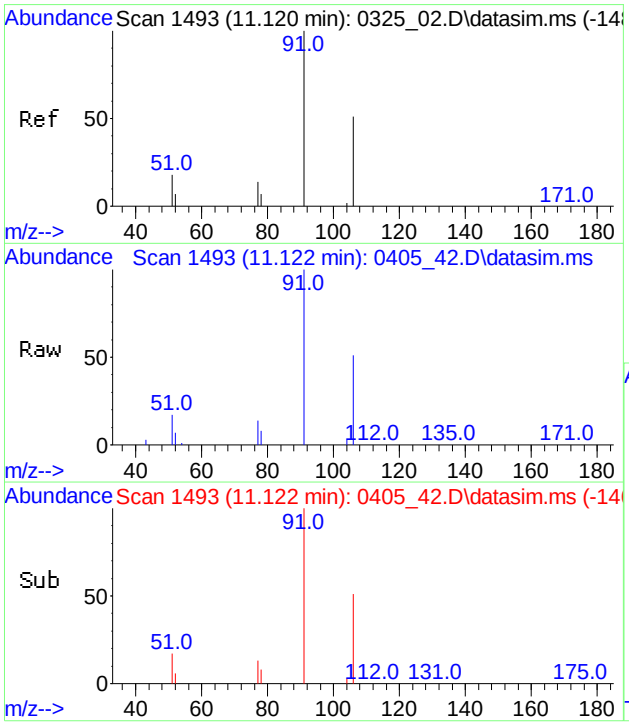




#108
Ethylbenzene(sim)
Conc: 8$ 0.694 ppb
RT: 10.937 min Scan# 1466
Delta R.T. 0.016 min
Lab File: 0405_42.D
Acq: 6 Apr 2021 4:30 pm

Tgt Ion: 91 Resp: 83157

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 32.1 | 25.8 | 38.8 |
| 77 | 9.3 | 7.0 | 10.6 |

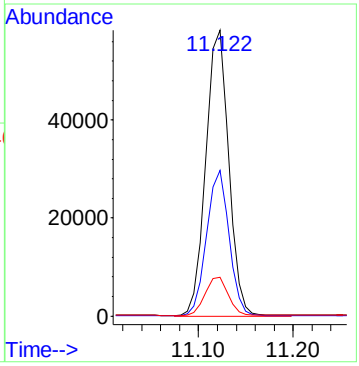


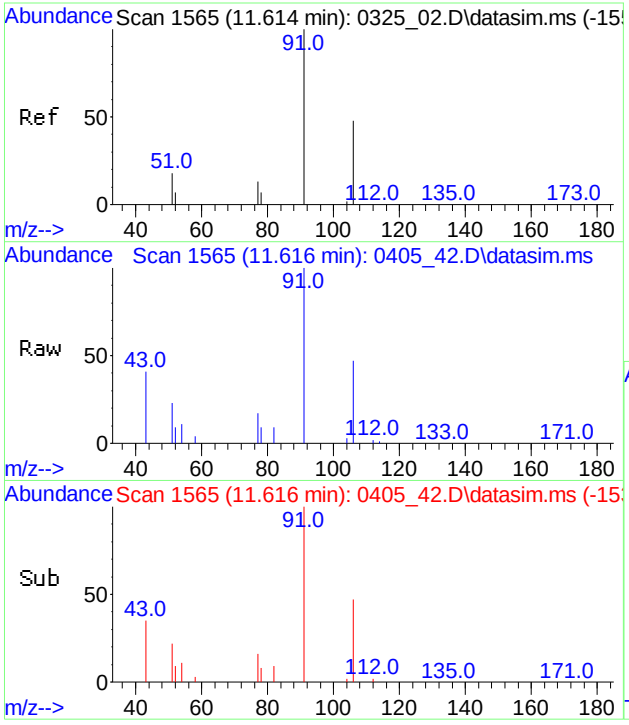



#109
m,p-Xylene(sim)
Conc: 8$ 1.110 ppbv
RT: 11.119 min Scan# 1493
Delta R.T. 0.015 min
Lab File: 0405_42.D
Acq: 6 Apr 2021 4:30 pm

Tgt Ion: 91 Resp: 90543

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 48.3 | 44.8 | 54.8 |
| 77 | 14.1 | 10.5 | 15.7 |

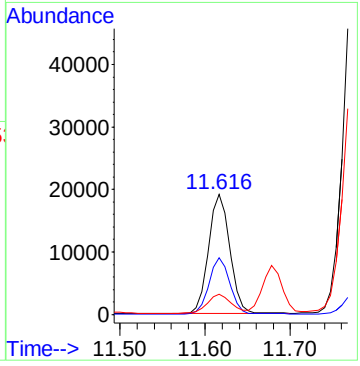



#110
o-Xylene(sim)
Conc: 8$ 0.389 ppb
RT: 11.616 min Scan# 1565
Delta R.T. 0.016 min
Lab File: 0405_42.D
Acq: 6 Apr 2021 4:30 pm

Tgt Ion: 91 Resp: 33199

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 45.8 | 37.6 | 56.4 |
| 77 | 17.6 | 9.8 | 14.8# |



AIR ANALYSIS DATA SHEET

CLIENT ID: SS-7

Client: GC-ENV Lab: Phoenix Env. Labs

SDG No.: GCH92051 Lab Sample ID: CH92052

Canister: 28567 Lab File ID: 0405_43.D

Instrument: CHEM24 Column: RTX-VMS Date Received: 04/05/21

Purge Volume 200 (cc) Date Analyzed: 04/06/21

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 | 0.420 | | 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 | 108 | ES | 0.531 | 0.531 | |
| 67-64-1 | Acetone | 21.8 | S | 0.421 | 0.421 | r |
| 75-69-4 | Trichlorofluoromethane | 0.232 | | 0.178 | 0.178 | r |
| 67-63-0 | Isopropylalcohol | 5.20 | 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 | 5.65 | | 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 | 0.914 | | 0.339 | 0.339 | r |
| 110-54-3 | Hexane | 2.00 | S | 0.284 | 0.284 | r |
| 141-78-6 | Ethyl acetate | 0.278 | U | 0.278 | 0.278 | r |
| 109-99-9 | Tetrahydrofuran | 0.339 | U | 0.339 | 0.339 | r |
| 71-55-6 | 1,1,1-Trichloroethane | 25.1 | | 0.183 | 0.183 | r |
| 71-43-2 | Benzene | 0.632 | | 0.313 | 0.313 | r |
| 110-82-7 | Cyclohexane | 1.74 | | 0.291 | 0.291 | r |
| 142-82-5 | Heptane | 2.55 | | 0.244 | 0.244 | r |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | 0.244 | U | 0.244 | 0.244 | r |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.221 | U | 0.221 | 0.221 | r |
| 108-88-3 | Toluene | 5.50 | | 0.266 | 0.266 | r |
| 591-78-6 | 2-Hexanone(MBK) | 0.244 | U | 0.244 | 0.244 | r |
| 127-18-4 | Tetrachloroethene | 62.8 | E | 0.037 | 0.037 | |
| 108-90-7 | Chlorobenzene | 0.217 | U | 0.217 | 0.217 | r |
| 100-41-4 | Ethylbenzene | 0.681 | | 0.230 | 0.230 | r |
| 179601-23-1 | m,p-Xylene | 1.79 | | 0.230 | 0.230 | r |
| 100-42-5 | Styrene | 0.235 | U | 0.235 | 0.235 | r |
| 95-47-6 | o-Xylene | 0.698 | | 0.230 | 0.230 | r |
| 98-82-8 | Isopropylbenzene | 0.204 | U | 0.204 | 0.204 | r |
| 622-96-8 | 4-Ethyltoluene | 0.270 | | 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 | 0.226 | | 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: GC-ENV  Lab: Phoenix Env. Labs

SDG No.: GCH92051  Lab Sample ID: CH92052

Canister: 28567  Lab File ID: 0405_43.D

Instrument: CHEM24  Column: RTX-VMS  Date Received: 04/05/21

Purge Volume: 200 (cc)  Date Analyzed: 04/06/21

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 |
| 56-23-5 | Carbon Tetrachloride(sim) | 0.062 | | 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) | 0.157 | | 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 |
| 630-20-6 | 1,1,1,2-Tetrachloroethane(sim) | 0.146 | U | 0.146 | 0.146 | 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:\AIR2021\CHEM24\04APR\05\
Data File : 0405_43.D
Acq On : 6 Apr 2021 5:06 pm
Operator : Keith
Client ID : SS-7
Lab ID : CH92052
ALS Vial : 41 Sample Multiplier: 1

Quant Time: Apr 07 08:16:38 2021
Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 26 09:02:26 2021
Response via : Initial Calibration

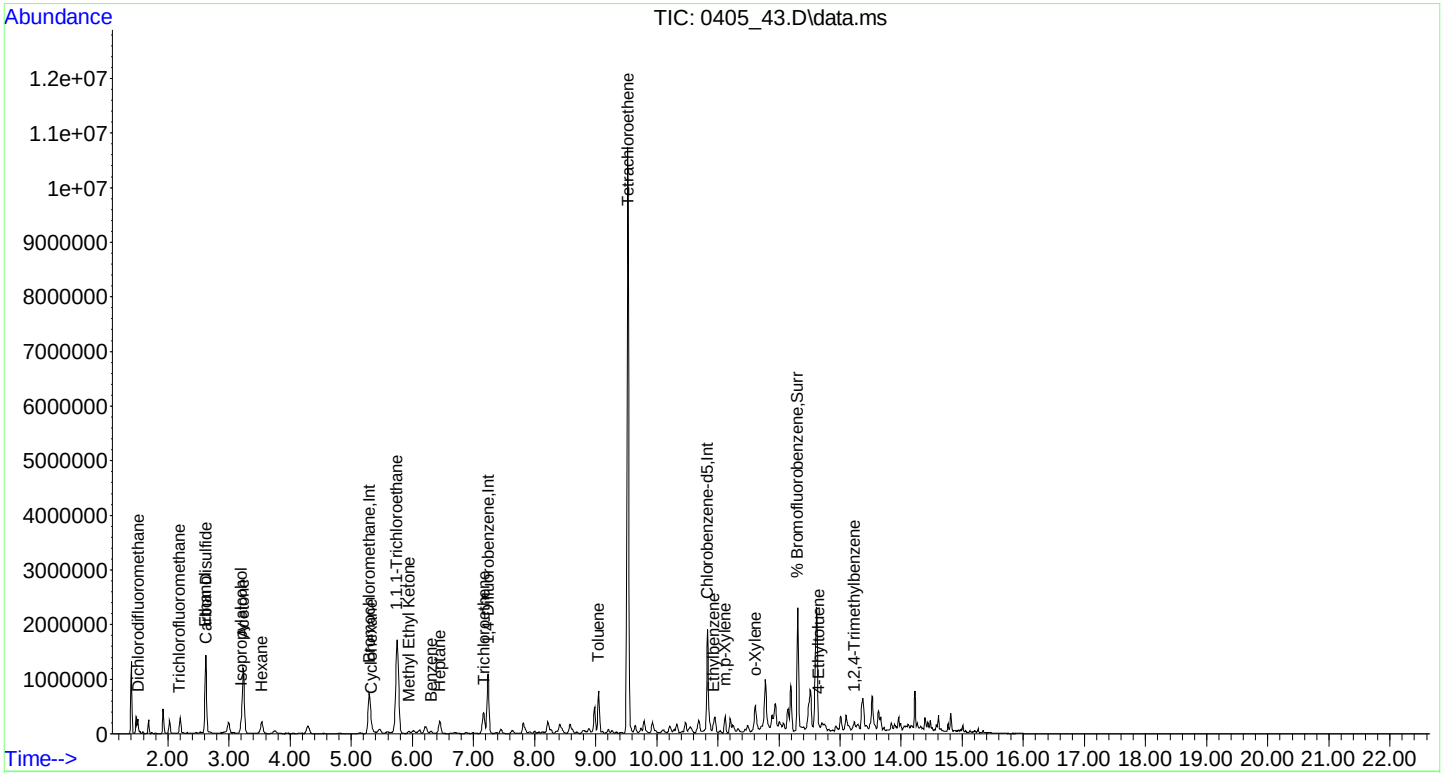
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Bromochloromethane | 5.296 | 130 | 298305 | 10.000 | ng | | 0.03 |
| 36) 1,4-Difluorobenzene | 7.240 | 114 | 937894 | 10.000 | ng | | 0.02 |
| 53) Chlorobenzene-d5 | 10.831 | 82 | 441707 | 10.000 | ng | | 0.02 |
| 80) Bromochloromethane(sim) | 5.299 | 130 | 307978 | 10.000 | ng | # | 0.03 |
| 95) 1,4-Difluorobenzene(sim) | 7.240 | 114 | 937894 | 10.000 | ng | | 0.02 |
| 105) Chlorobenzene-d5(sim) | 10.831 | 82 | 441707 | 10.000 | ng | | 0.02 |
| System Monitoring Compounds | | | | | | | |
| 62) % Bromofluorobenzene | 12.304 | 95 | 629137 | 10.269 | ppbv | | 0.00 |
| Spiked Amount 10.000 | Range 70 - 130 | | Recovery = 102.70% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 3) Dichlorodifluoromethane | 1.513 | 85 | 22904 | 0.420 | ppbv | | 99 |
| 10) Ethanol | 2.615 | 45 | 1426389 | 107.620 | ppbv | | 96 |
| 12) Acetone | 3.231 | 43 | 1670862 | 21.789 | ppbv | | 98 |
| 13) Trichlorofluoromethane | 2.191 | 101 | 17723 | 0.232 | ppbv | | 98 |
| 14) Isopropylalcohol | 3.203 | 45 | 353380 | 5.196 | ppbv | # | 1 |
| 20) Carbon Disulfide | 2.629 | 76 | 332289 | 5.645 | ppbv | | 99 |
| 25) Methyl Ethyl Ketone | 5.944 | 43 | 72250 | 0.914 | ppbv | | 98 |
| 27) Hexane | 3.539 | 57 | 106256 | 1.996 | ppbv | | 93 |
| 32) 1,1,1-Trichloroethane | 5.750 | 97 | 1559508 | 25.096 | ppbv | | 93 |
| 33) Benzene | 6.309 | 78 | 39156 | 0.632 | ppbv | # | 92 |
| 35) Cyclohexane | 5.332 | 56 | 72822 | 1.742 | ppbv | | 88 |
| 39) Trichloroethene | 7.172 | 130 | 6863 | 0.182 | ppbv | | 97 |
| 43) Heptane | 6.446 | 43 | 170521 | 2.547 | ppbv | | 98 |
| 48) Toluene | 9.048 | 91 | 420267 | 5.499 | ppbv | | 98 |
| 52) Tetrachloroethene | 9.525 | 166 | 2872917 | 62.807 | ppbv | | 98 |
| 56) Ethylbenzene | 10.934 | 91 | 75477 | 0.681 | ppbv | | 96 |
| 57) m,p-Xylene | 11.120 | 91 | 148992 | 1.787 | ppbv | | 99 |
| 61) o-Xylene | 11.614 | 91 | 58127 | 0.698 | ppbv | | 95 |
| 66) 4-Ethyltoluene | 12.648 | 105 | 33265 | 0.270 | ppbv | # | 74 |
| 68) 1,2,4-Trimethylbenzene | 13.232 | 105 | 21735 | 0.226 | ppbv | # | 92 |
| 84] Trichlorofluoromethane... | 2.194 | 101 | 18230 | 0.208 | ppbv | | 99 |
| 85] 1,1,1-Trichloroethane(... | 5.750 | 97 | 1560854 | 24.041 | ppbv | # | 93 |
| 86] Benzene(sim) | 6.305 | 78 | 43204 | 0.603 | ppbv | | 98 |
| 87] Carbon Tetrachloride(sim) | 5.673 | 117 | 4670m | 0.062 | ppbv | | 99 |
| 98] Trichloroethene(sim) | 7.175 | 130 | 6601 | 0.157 | ppbv | | 99 |
| 104] Tetrachloroethene(sim) | 9.528 | 166 | 3006242 | 61.294 | ppbv | | 99 |
| 108] Ethylbenzene(sim) | 10.937 | 91 | 80284 | 0.665 | ppb | | 99 |
| 109] m,p-Xylene(sim) | 11.120 | 91 | 149037 | 1.812 | ppbv | | 98 |
| 110] o-Xylene(sim) | 11.616 | 91 | 61519 | 0.715 | ppb | # | 95 |

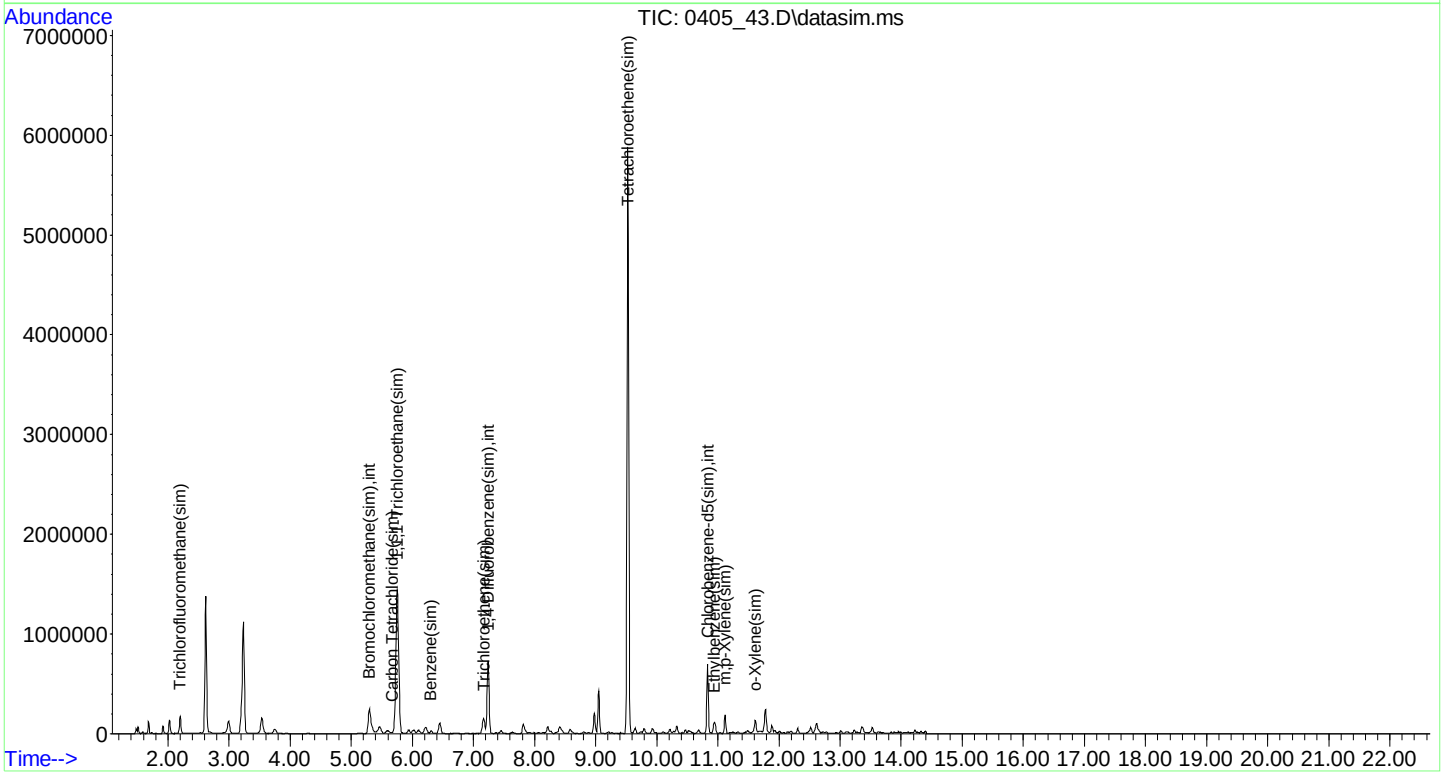
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

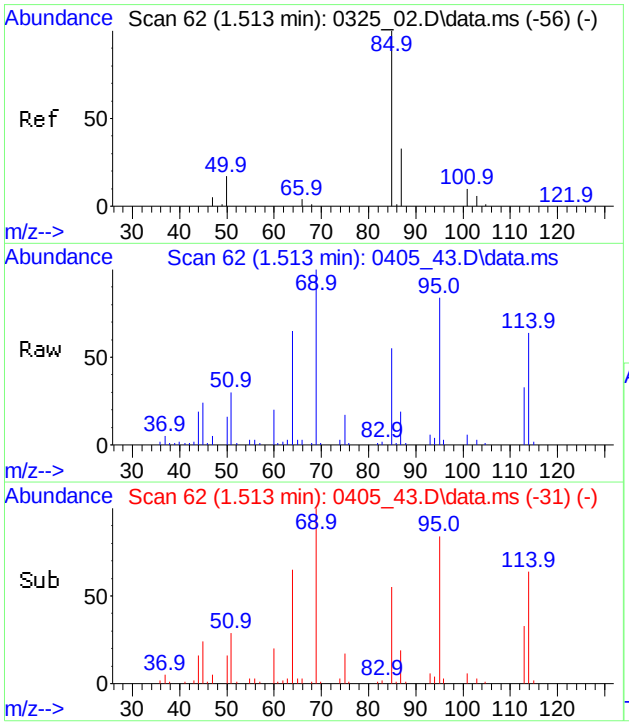
Quantitation Report (QT Reviewed)

Data Path : H:\AIR2021\CHEM24\04APR\05\
Data File : 0405_43.D
Acq On : 6 Apr 2021 5:06 pm
Operator : Keith
Client ID : SS-7
Lab ID : CH92052
ALS Vial : 41 Sample Multiplier: 1

Quant Time: Apr 07 08:16:38 2021
Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 26 09:02:26 2021
Response via : Initial Calibration



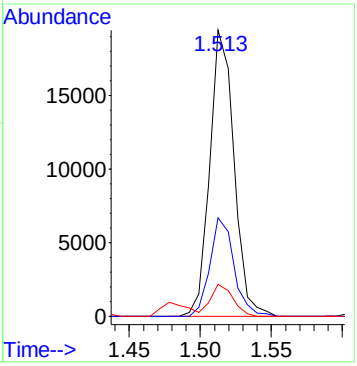



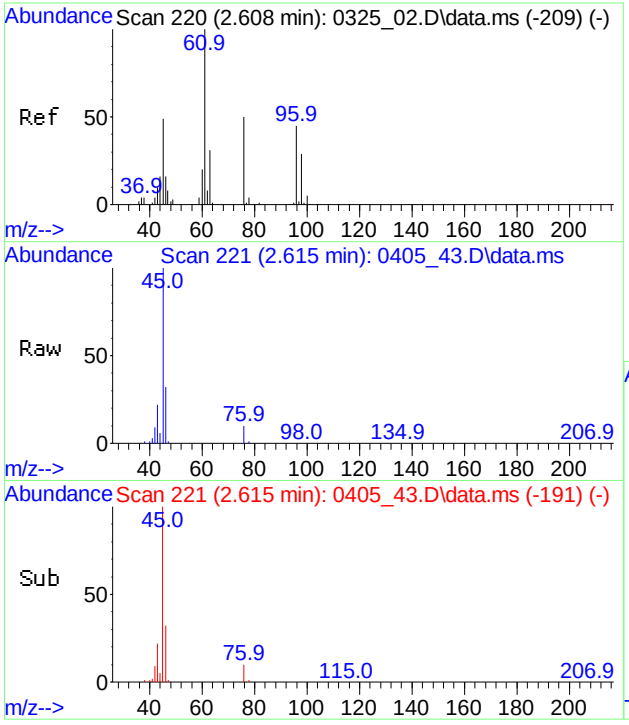



#3
Dichlorodifluoromethane
Conc: 8$ 0.420 ppbv
RT: 1.513 min Scan# 62
Delta R.T. 0.014 min
Lab File: 0405_43.D
Acq: 6 Apr 2021 5:06 pm

Tgt Ion: 85 Resp: 22904

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 34.0 | 26.6 | 40.0 |
| 101 | 10.1 | 7.9 | 11.9 |

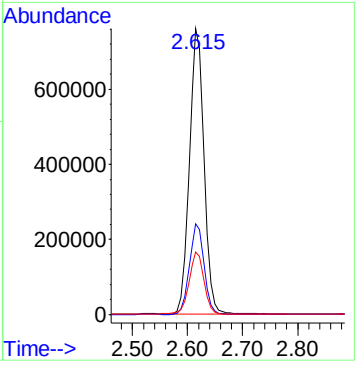


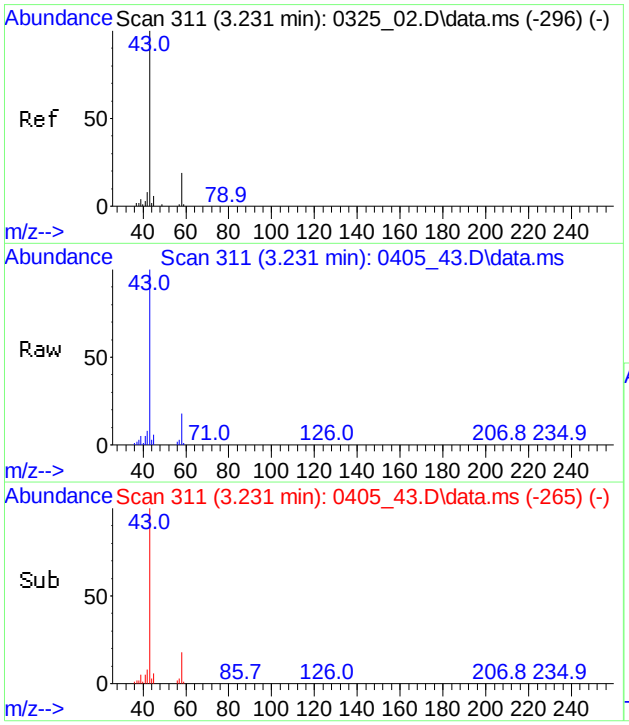




#10
Ethanol
Conc: 8$ 107.620 ppbv
RT: 2.615 min Scan# 221
Delta R.T. 0.020 min
Lab File: 0405_43.D
Acq: 6 Apr 2021 5:06 pm

Tgt Ion: 45 Resp: 1426389

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 31.7 | 27.8 | 41.6 |
| 43 | 22.4 | 17.3 | 25.9 |

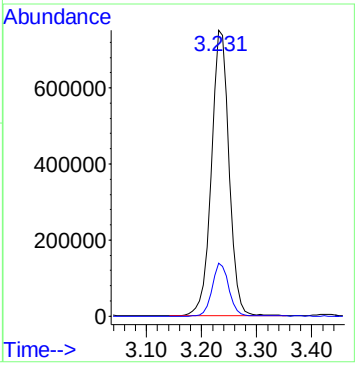


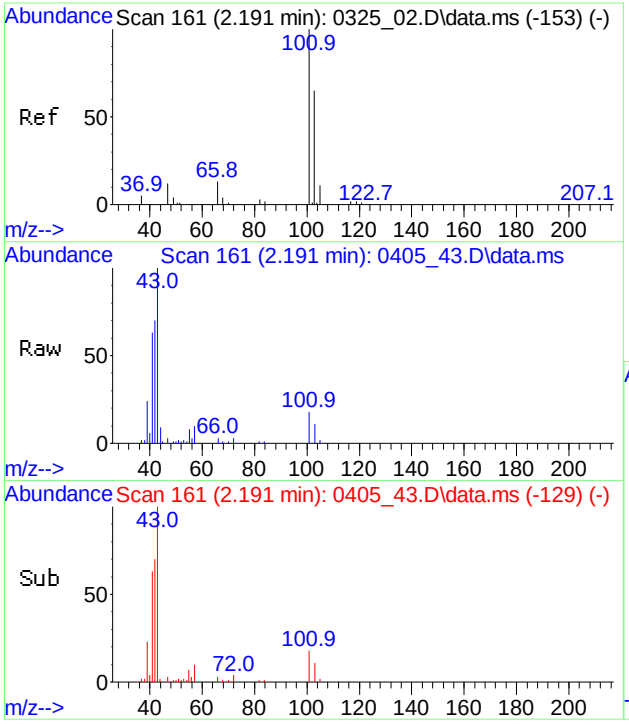



#12
Acetone
Conc: 8$ 21.789 ppbv
RT: 3.231 min Scan# 311
Delta R.T. 0.014 min
Lab File: 0405_43.D
Acq: 6 Apr 2021 5:06 pm

Tgt Ion: 43 Resp: 1670862

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 17.4 | 13.2 | 19.8 |

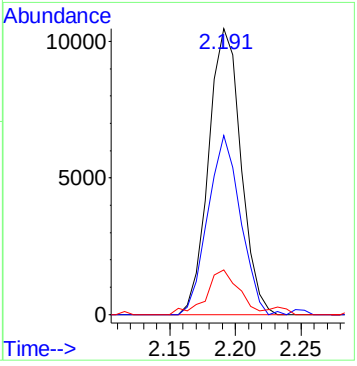


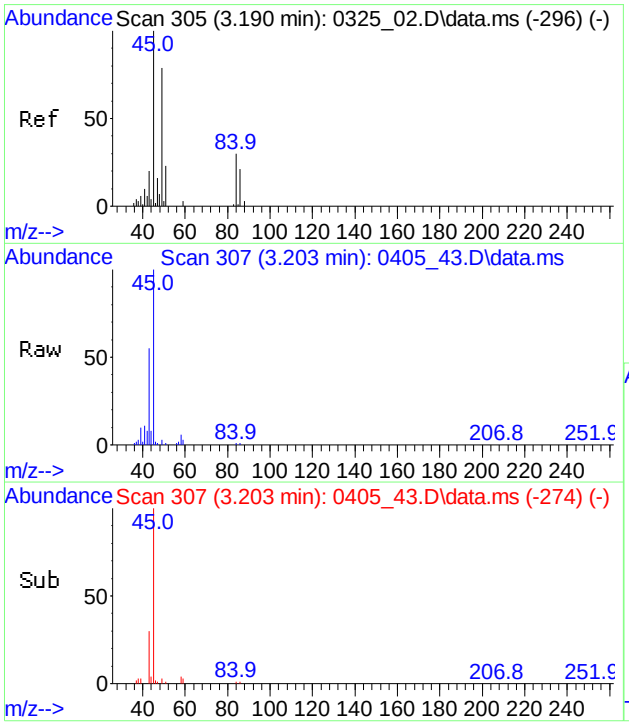




#13
Trichlorofluoromethane
Conc: 8$ 0.232 ppbv
RT: 2.191 min Scan# 161
Delta R.T. 0.021 min
Lab File: 0405_43.D
Acq: 6 Apr 2021 5:06 pm

Tgt Ion:101 Resp: 17723

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 63.3 | 51.5 | 77.3 |
| 66 | 15.5 | 10.6 | 15.8 |

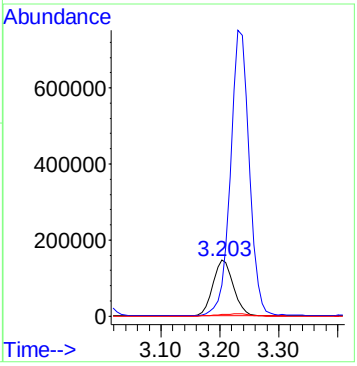


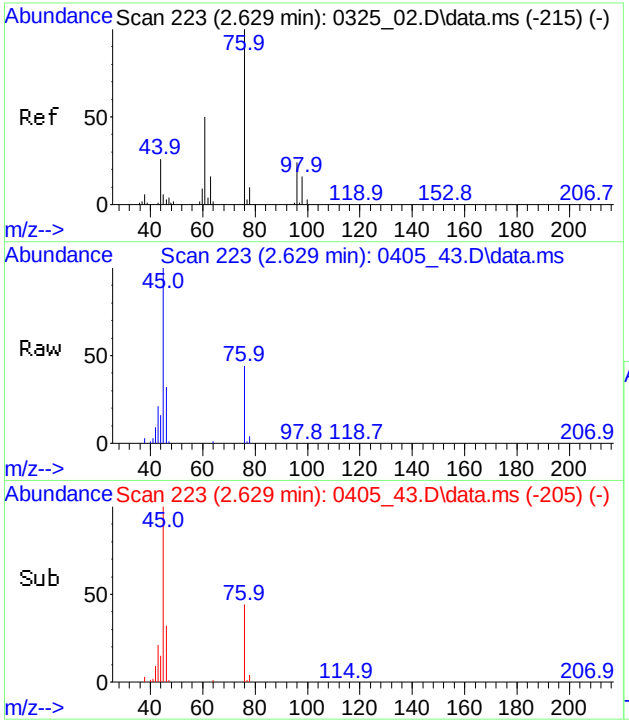



#14
Isopropylalcohol
Conc: 8$ 5.196 ppbv
RT: 3.203 min Scan# 307
Delta R.T. 0.027 min
Lab File: 0405_43.D
Acq: 6 Apr 2021 5:06 pm

Tgt Ion: 45 Resp: 353380

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 472.8 | 84.1 | 126.1# |
| 59 | 5.8 | 2.6 | 4.0# |

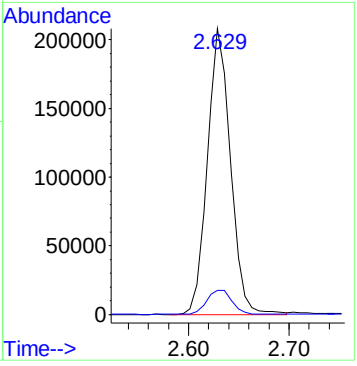


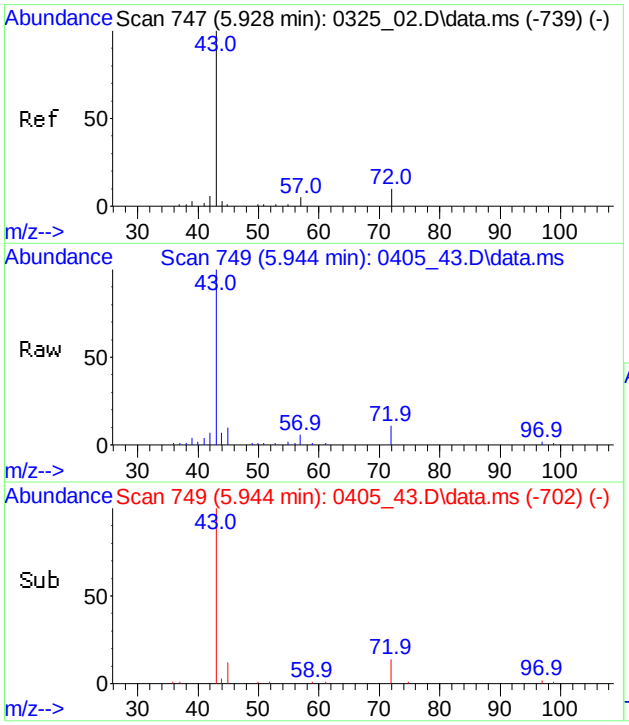




#20
Carbon Disulfide
Conc: 8$ 5.645 ppbv
RT: 2.629 min Scan# 223
Delta R.T. 0.021 min
Lab File: 0405_43.D
Acq: 6 Apr 2021 5:06 pm

Tgt Ion: 76 Resp: 332289

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 9.3 | 7.7 | 11.5 |

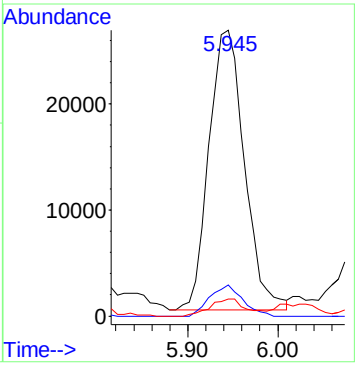


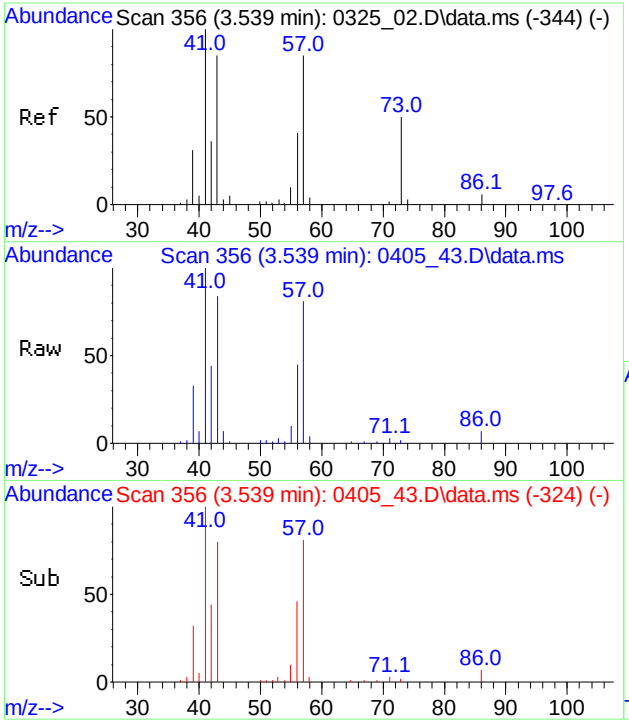



#25
Methyl Ethyl Ketone
Conc: 8$ 0.914 ppbv
RT: 5.944 min Scan# 749
Delta R.T. 0.038 min
Lab File: 0405_43.D
Acq: 6 Apr 2021 5:06 pm

Tgt Ion: 43 Resp: 72250

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 10.2 | 8.5 | 12.7 |
| 57 | 6.3 | 4.2 | 6.4 |

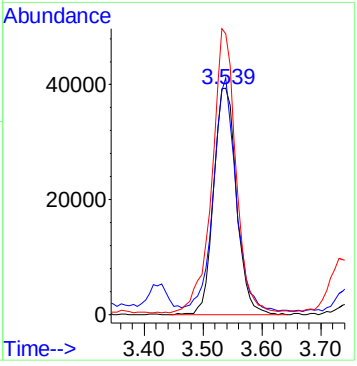


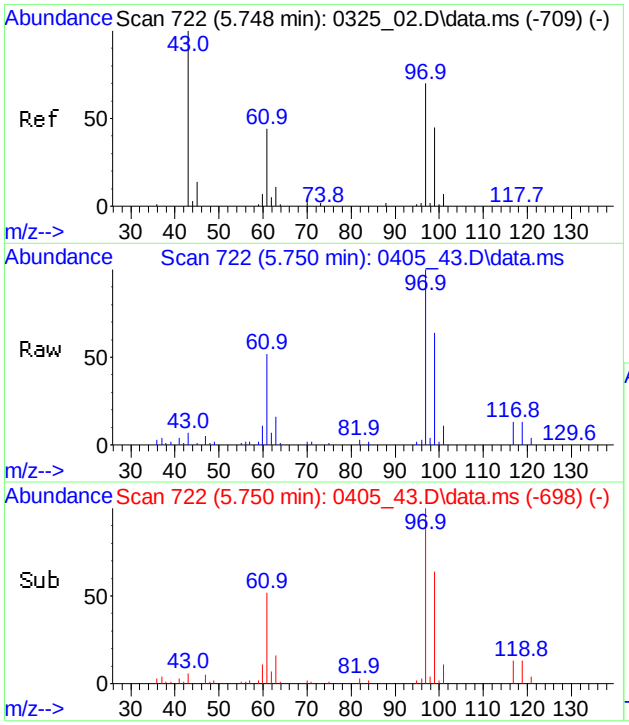




#27
Hexane
Conc: 8$ 1.996 ppbv
RT: 3.539 min Scan# 356
Delta R.T. 0.021 min
Lab File: 0405_43.D
Acq: 6 Apr 2021 5:06 pm

Tgt Ion: 57 Resp: 106256

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 43 | 101.0 | 83.3 | 124.9 |
| 41 | 130.9 | 95.6 | 143.4 |

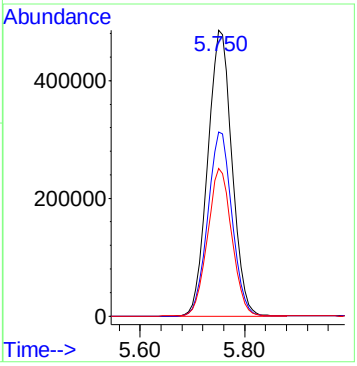


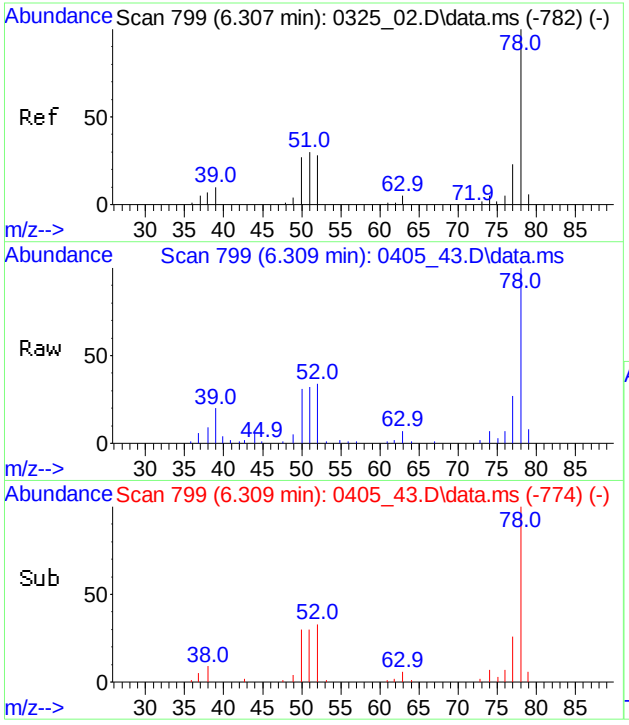



#32
1,1,1-Trichloroethane
Conc: 8$ 25.096 ppbv
RT: 5.750 min Scan# 722
Delta R.T. 0.024 min
Lab File: 0405_43.D
Acq: 6 Apr 2021 5:06 pm

Tgt Ion: 97 Resp: 1559508

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 64.5 | 51.3 | 76.9 |
| 61 | 51.8 | 50.1 | 75.1 |

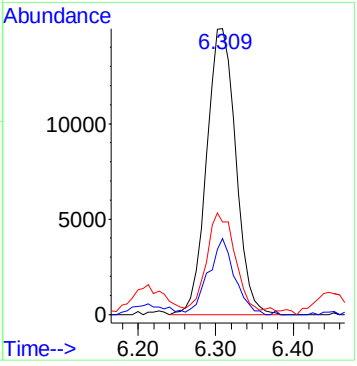


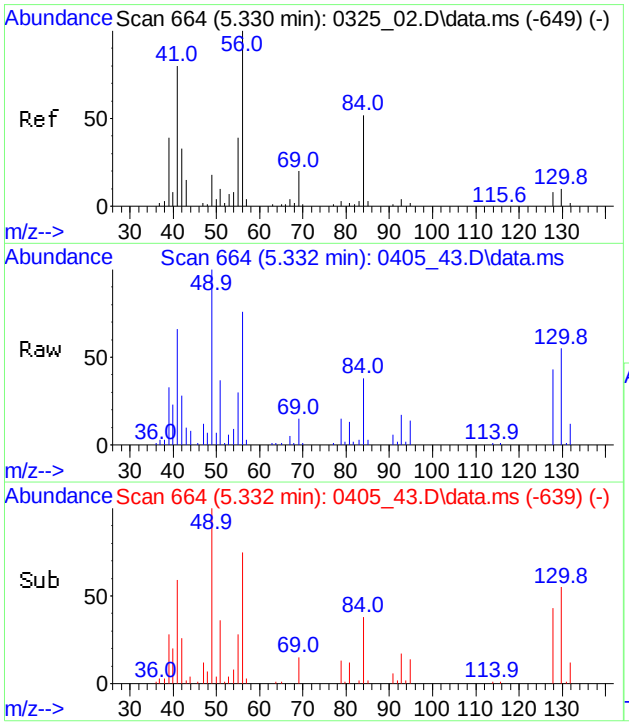




#33
Benzene
Conc: 8$ 0.632 ppbv
RT: 6.309 min Scan# 799
Delta R.T. 0.023 min
Lab File: 0405_43.D
Acq: 6 Apr 2021 5:06 pm

Tgt Ion: 78 Resp: 39156

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 23.8 | 18.2 | 27.2 |
| 51 | 37.2 | 24.2 | 36.2# |

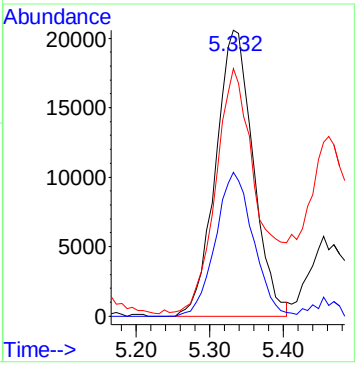


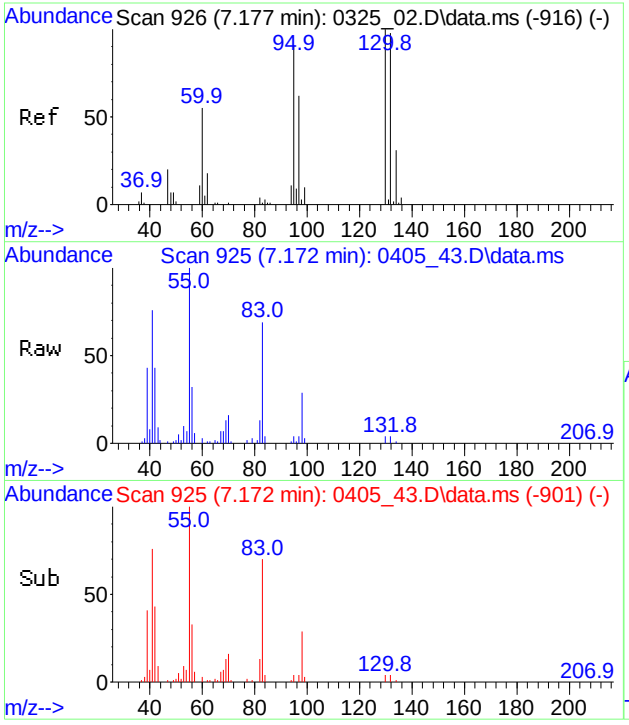



#35
Cyclohexane
Conc: 8$ 1.742 ppbv
RT: 5.332 min Scan# 664
Delta R.T. 0.031 min
Lab File: 0405_43.D
Acq: 6 Apr 2021 5:06 pm

Tgt Ion: 56 Resp: 72822

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 84 | 50.2 | 42.2 | 63.4 |
| 41 | 95.9 | 64.1 | 96.1 |

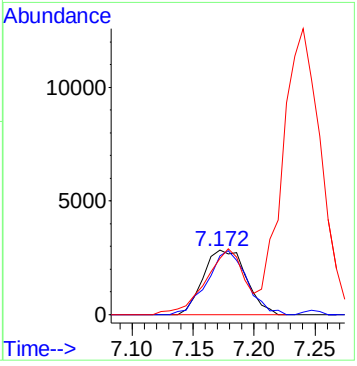


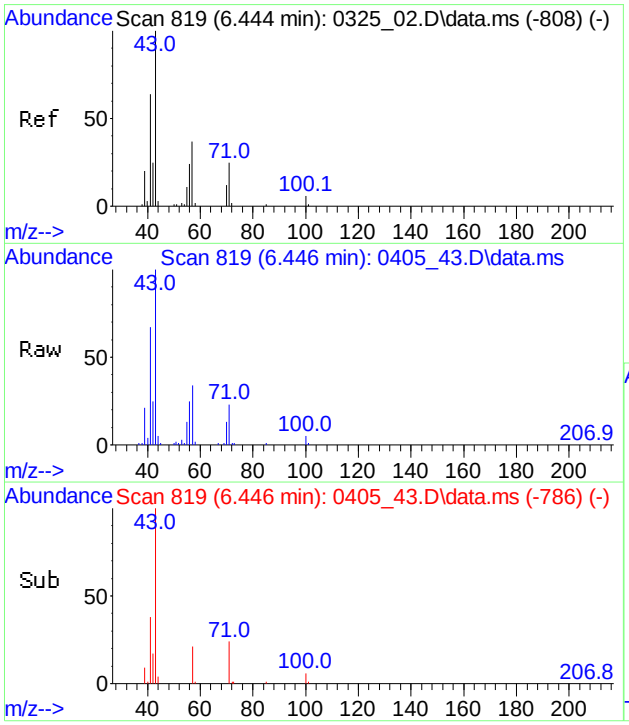




#39
Trichloroethene
Conc: 8$ 0.182 ppbv
RT: 7.172 min Scan# 925
Delta R.T. 0.016 min
Lab File: 0405_43.D
Acq: 6 Apr 2021 5:06 pm

Tgt Ion:130 Resp: 6863

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 132 | 91.1 | 76.6 | 115.0 |
| 95 | 91.1 | 72.3 | 108.5 |

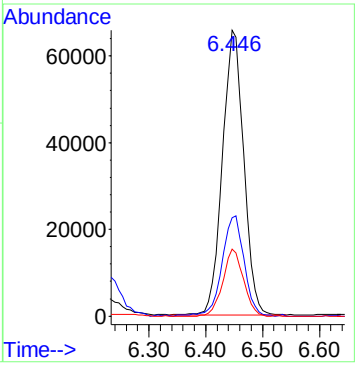


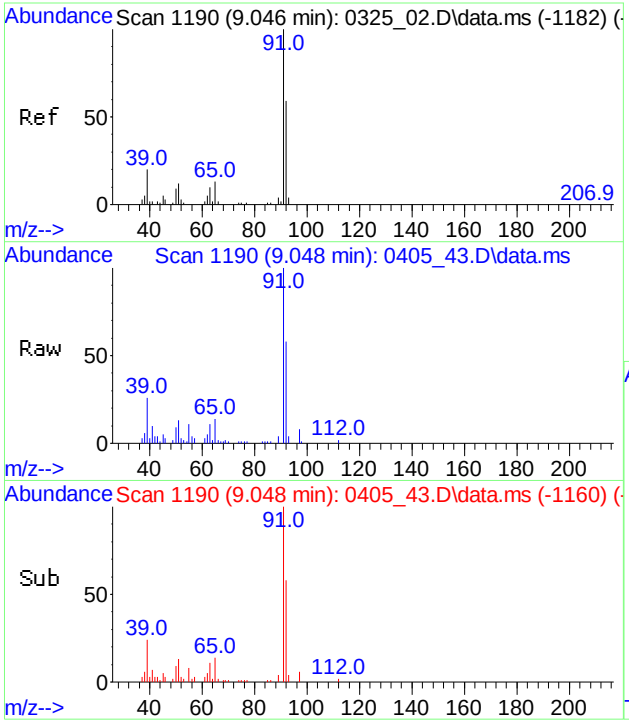



#43
Heptane
Conc: 8$ 2.547 ppbv
RT: 6.446 min Scan# 819
Delta R.T. 0.023 min
Lab File: 0405_43.D
Acq: 6 Apr 2021 5:06 pm

Tgt Ion: 43 Resp: 170521

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 57 | 36.4 | 29.5 | 44.3 |
| 71 | 22.6 | 19.8 | 29.8 |

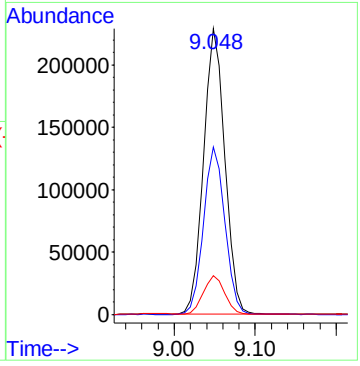


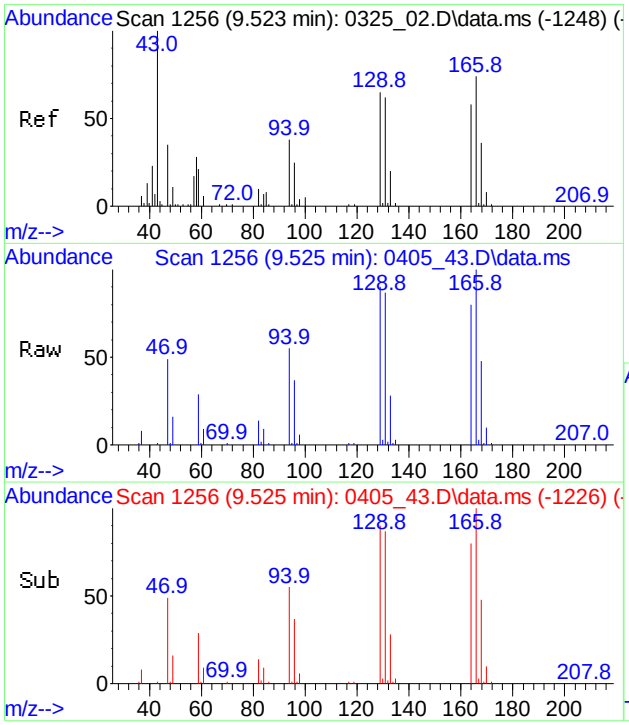




#48
Toluene
Conc: 8$ 5.499 ppbv
RT: 9.048 min Scan# 1190
Delta R.T. 0.016 min
Lab File: 0405_43.D
Acq: 6 Apr 2021 5:06 pm

Tgt Ion: 91 Resp: 420267

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 58.9 | 46.3 | 69.5 |
| 65 | 13.7 | 10.1 | 15.1 |

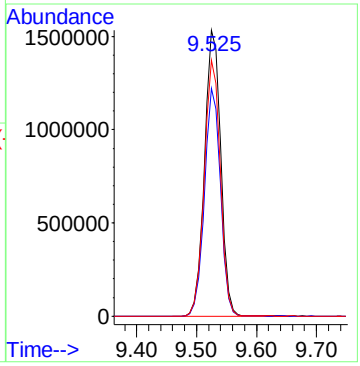


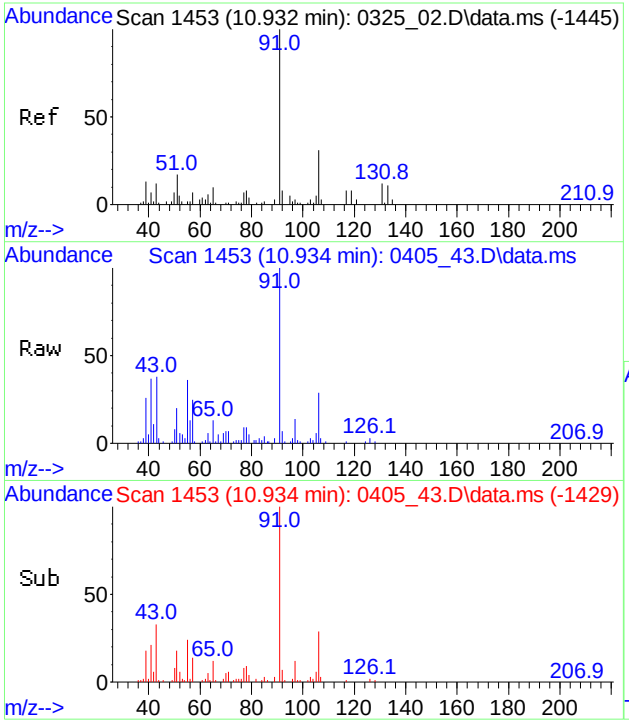



#52
Tetrachloroethene
Conc: 8$ 62.807 ppbv
RT: 9.525 min Scan# 1256
Delta R.T. 0.017 min
Lab File: 0405_43.D
Acq: 6 Apr 2021 5:06 pm

Tgt Ion:166 Resp: 2872917

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 164 | 78.7 | 62.2 | 93.4 |
| 129 | 88.8 | 68.3 | 102.5 |

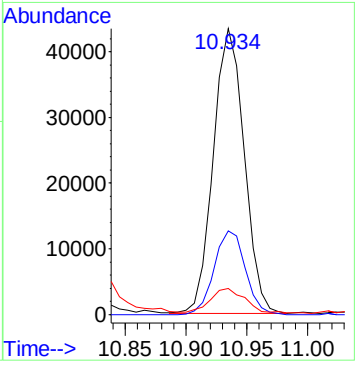


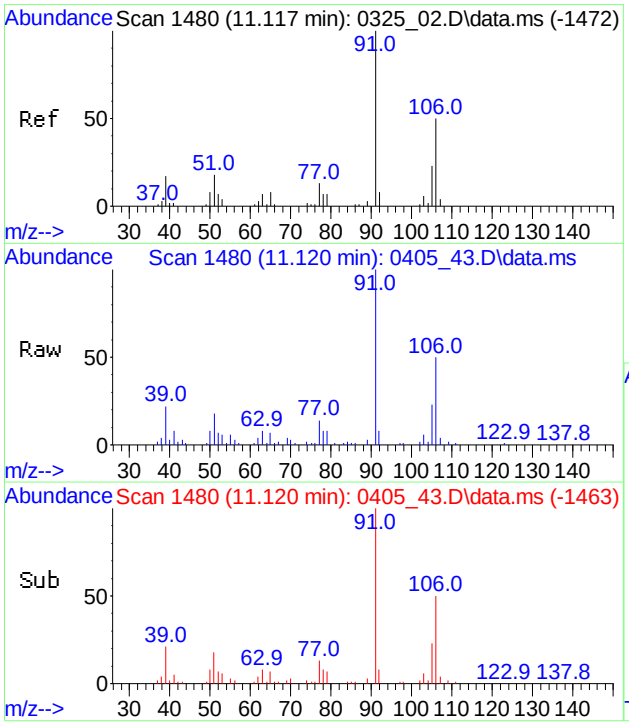




#56
Ethylbenzene
Conc: 8$ 0.681 ppbv
RT: 10.934 min Scan# 1453
Delta R.T. 0.016 min
Lab File: 0405_43.D
Acq: 6 Apr 2021 5:06 pm

Tgt Ion: 91 Resp: 75477

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 29.6 | 11.4 | 51.4 |
| 77 | 10.3 | 0.0 | 28.7 |

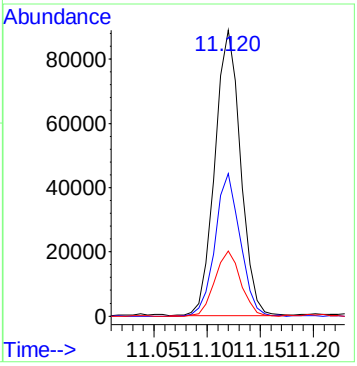


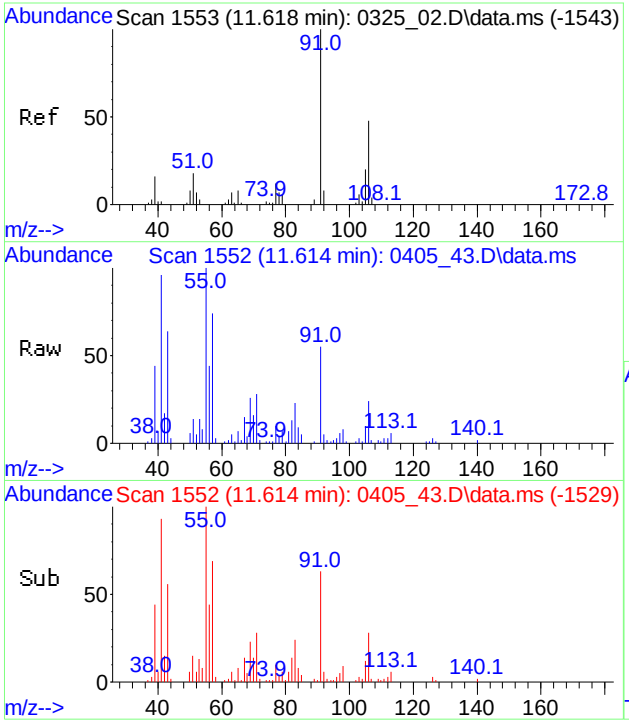



#57
m,p-Xylene
Conc: 8$ 1.787 ppbv
RT: 11.120 min Scan# 1480
Delta R.T. 0.016 min
Lab File: 0405_43.D
Acq: 6 Apr 2021 5:06 pm

Tgt Ion: 91 Resp: 148992

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 48.8 | 39.8 | 59.8 |
| 105 | 22.9 | 18.2 | 27.4 |

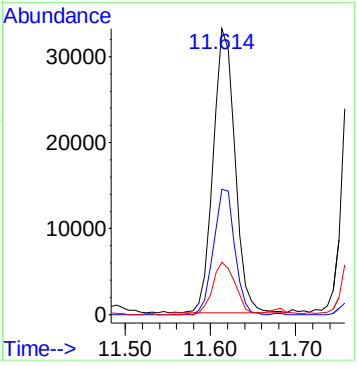


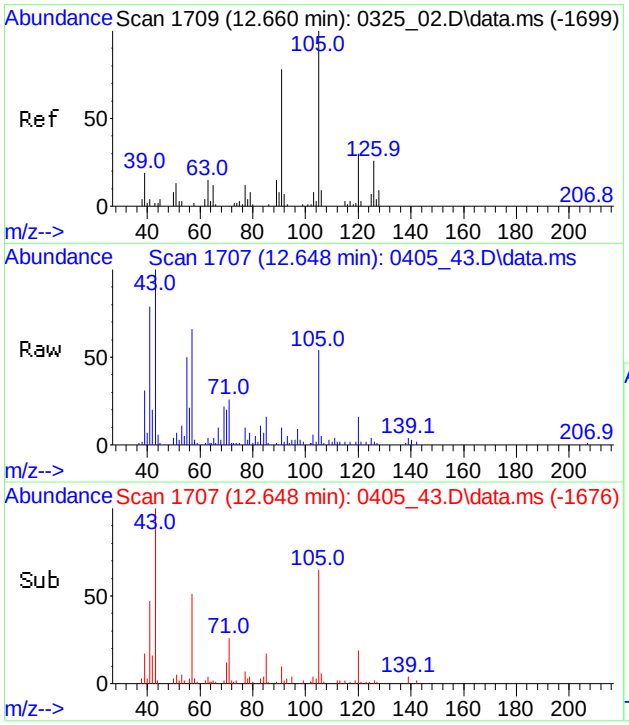




#61
o-Xylene
Conc: 8$ 0.698 ppbv
RT: 11.614 min Scan# 1552
Delta R.T. 0.010 min
Lab File: 0405_43.D
Acq: 6 Apr 2021 5:06 pm

Tgt Ion: 91 Resp: 58127

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 42.9 | 37.5 | 56.3 |
| 105 | 19.2 | 15.1 | 22.7 |

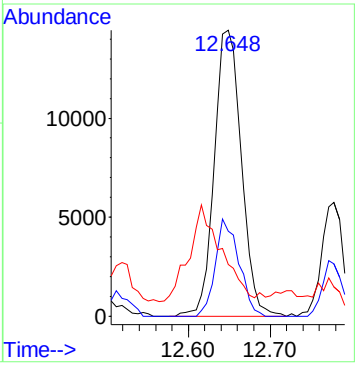


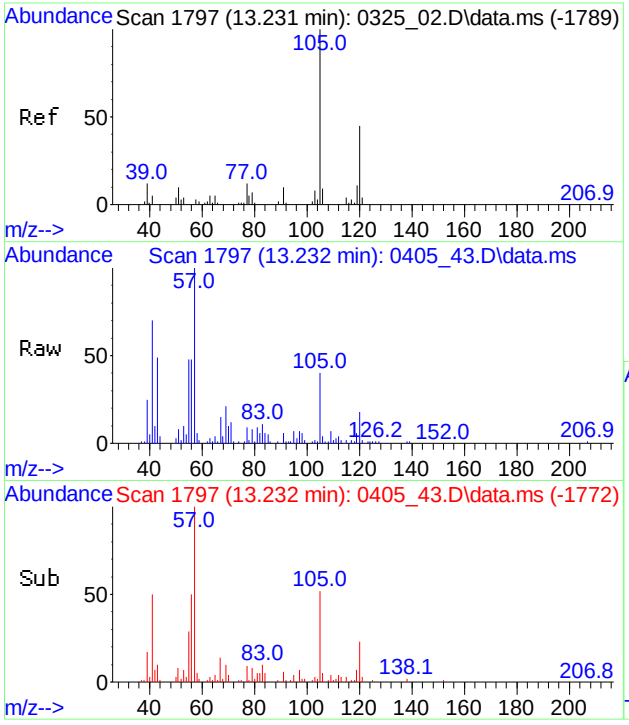



#66
4-Ethyltoluene
Conc: 8$ 0.270 ppbv
RT: 12.648 min Scan# 1707
Delta R.T. 0.002 min
Lab File: 0405_43.D
Acq: 6 Apr 2021 5:06 pm

Tgt Ion:105 Resp: 33265

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 29.4 | 24.0 | 36.0 |
| 77 | 46.0 | 9.2 | 13.8# |

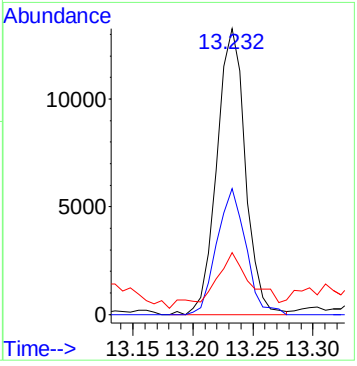


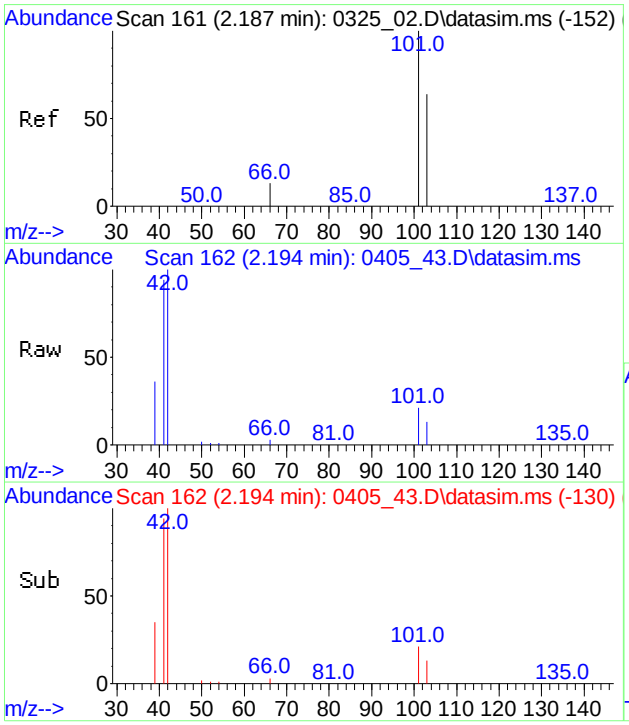




#68
1,2,4-Trimethylbenzene
Conc: 8$ 0.226 ppbv
RT: 13.232 min Scan# 1797
Delta R.T. 0.015 min
Lab File: 0405_43.D
Acq: 6 Apr 2021 5:06 pm

Tgt Ion:105 Resp: 21735

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 45.0 | 36.7 | 55.1 |
| 77 | 25.3 | 10.0 | 15.0# |

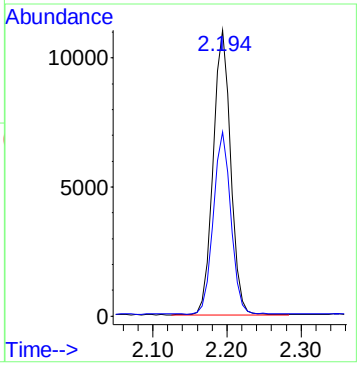


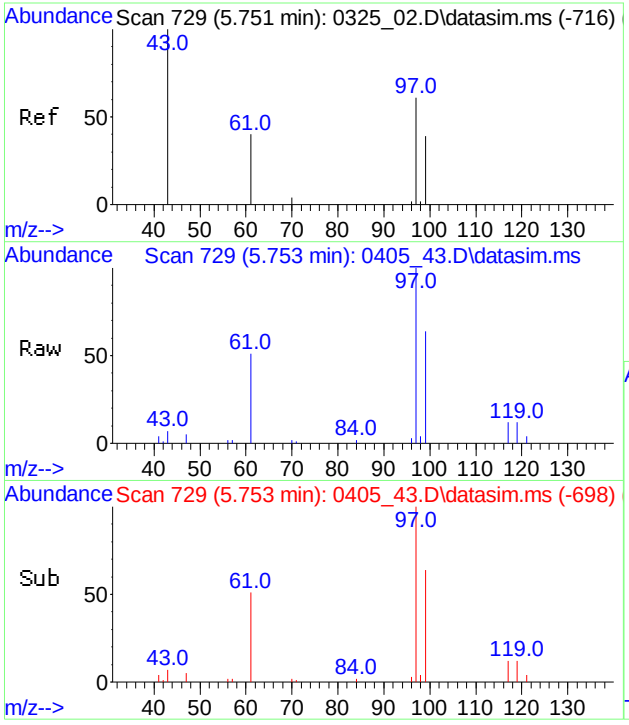



#84
Trichlorofluoromethane(sim)
Conc: 8$ 0.208 ppbv
RT: 2.194 min Scan# 162
Delta R.T. 0.021 min
Lab File: 0405_43.D
Acq: 6 Apr 2021 5:06 pm

Tgt Ion:101 Resp: 18230

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 64.5 | 51.9 | 77.9 |

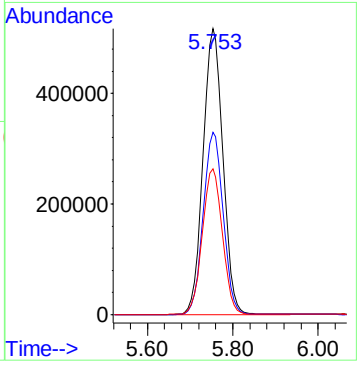


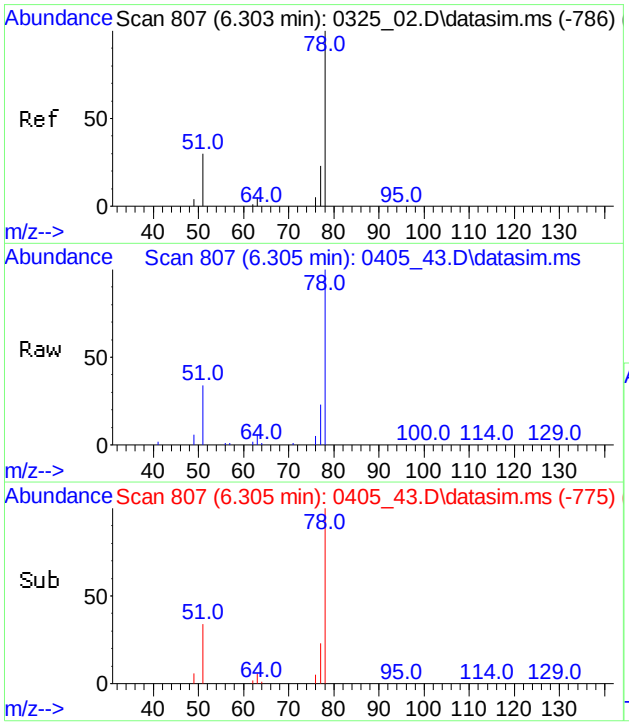




#85
1,1,1-Trichloroethane(sim)
Conc: 8$ 24.041 ppbv
RT: 5.750 min Scan# 729
Delta R.T. 0.024 min
Lab File: 0405_43.D
Acq: 6 Apr 2021 5:06 pm

Tgt Ion: 97 Resp: 1560854

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 64.5 | 64.0 | 64.0# |
| 61 | 51.8 | 50.0 | 75.0 |

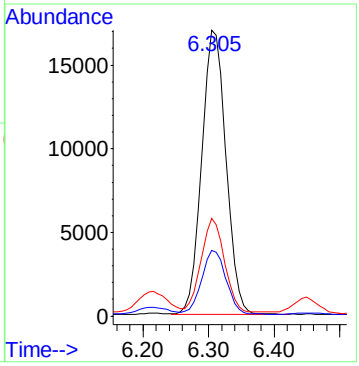


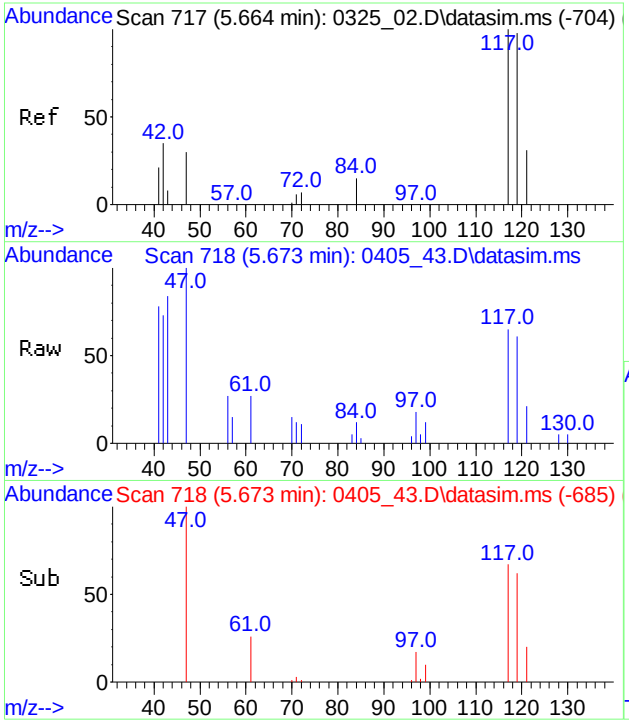



#86
Benzene(sim)
Conc: 8$ 0.603 ppbv
RT: 6.305 min Scan# 807
Delta R.T. 0.023 min
Lab File: 0405_43.D
Acq: 6 Apr 2021 5:06 pm

Tgt Ion: 78 Resp: 43204

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 22.4 | 18.0 | 27.0 |
| 51 | 31.8 | 23.9 | 35.9 |

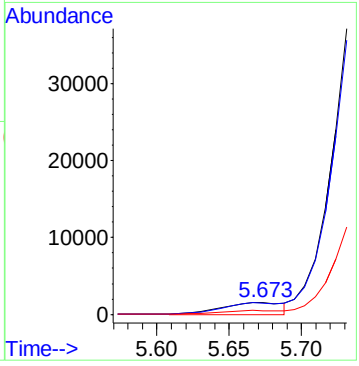


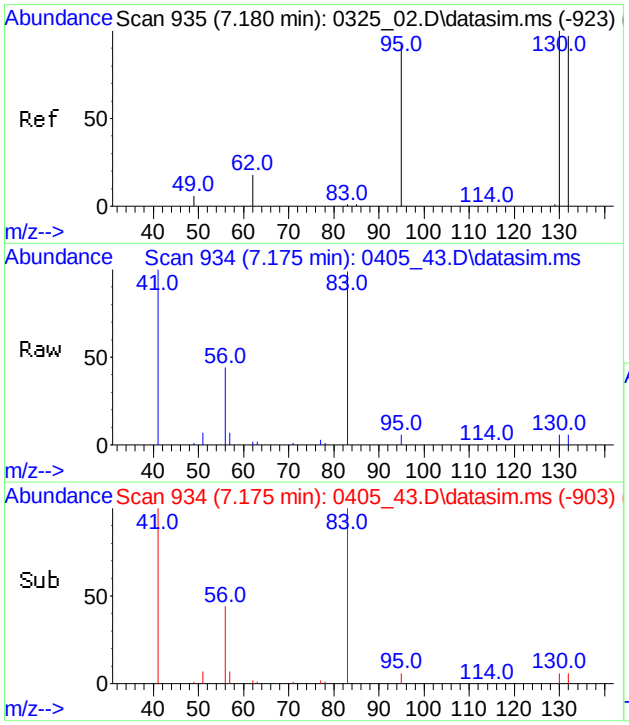




#87
Carbon Tetrachloride(sim)
Conc: 8$ 0.062 ppbv
RT: 5.673 min Scan# 718
Delta R.T. 0.034 min
Lab File: 0405_43.D
Acq: 6 Apr 2021 5:06 pm

Tgt Ion:117 Resp: 4670

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 4290.6 | 78.4 | 117.6# |
| 121 | 1404.7 | 25.7 | 38.5# |

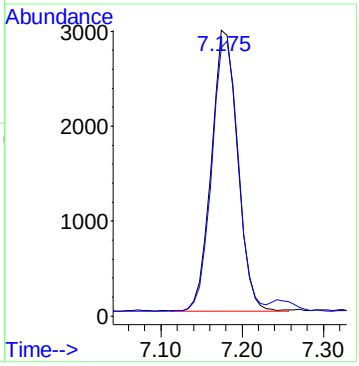


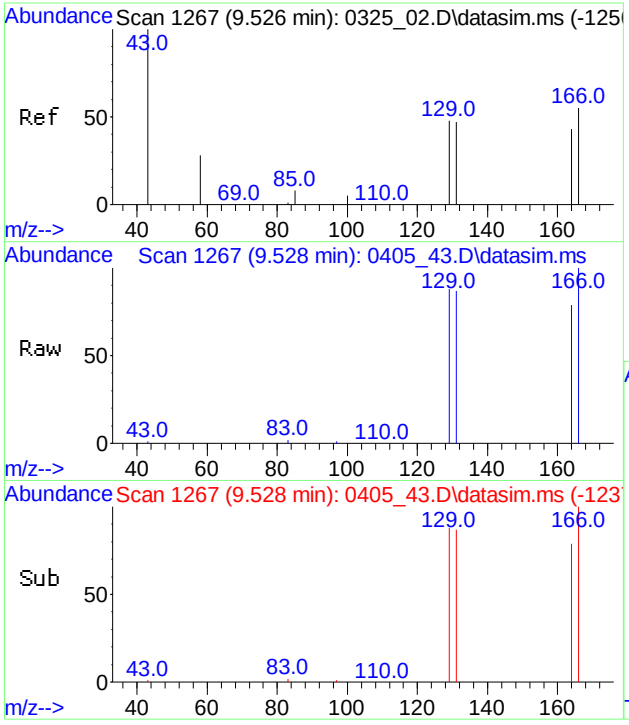



#98
Trichloroethene(sim)
Conc: 8$ 0.157 ppbv
RT: 7.175 min Scan# 934
Delta R.T. 0.016 min
Lab File: 0405_43.D
Acq: 6 Apr 2021 5:06 pm

Tgt Ion:130 Resp: 6601

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 132 | 97.8 | 77.1 | 115.7 |

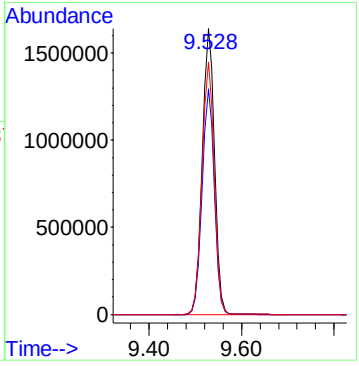


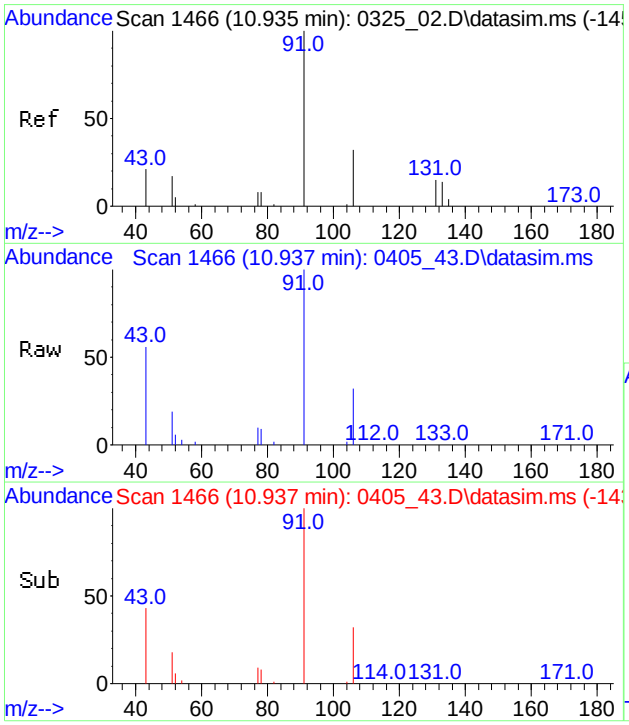




#104
Tetrachloroethene(sim)
Conc: 8$ 61.294 ppbv
RT: 9.528 min Scan# 1267
Delta R.T. 0.017 min
Lab File: 0405_43.D
Acq: 6 Apr 2021 5:06 pm

Tgt Ion:166 Resp: 3006242

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 164 | 78.7 | 58.4 | 98.4 |
| 129 | 88.3 | 66.6 | 106.6 |

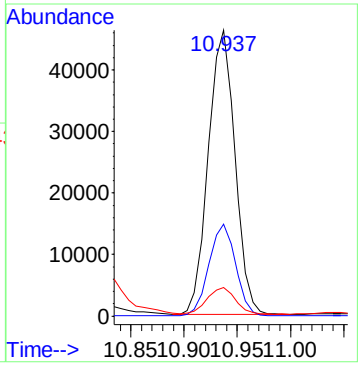


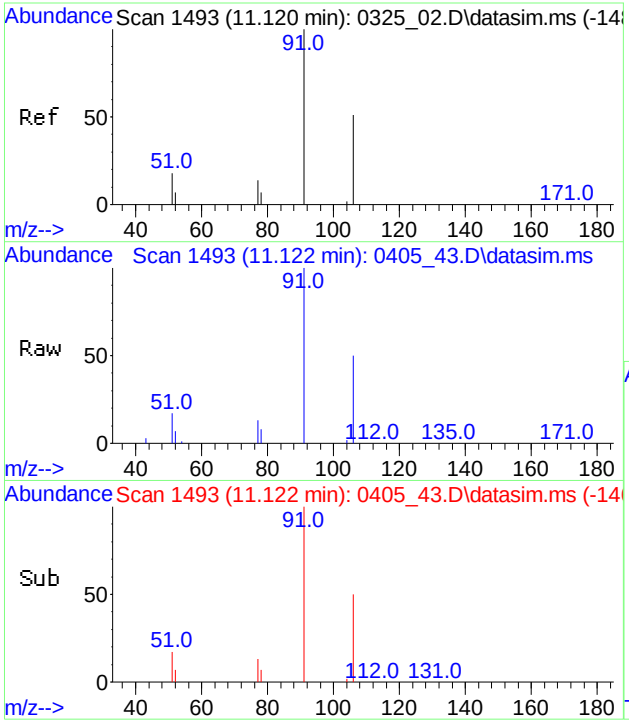



#108
Ethylbenzene(sim)
Conc: 8$ 0.665 ppb
RT: 10.937 min Scan# 1466
Delta R.T. 0.016 min
Lab File: 0405_43.D
Acq: 6 Apr 2021 5:06 pm

Tgt Ion: 91 Resp: 80284

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 32.2 | 25.8 | 38.8 |
| 77 | 10.0 | 7.0 | 10.6 |

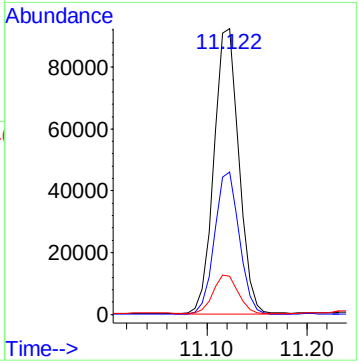


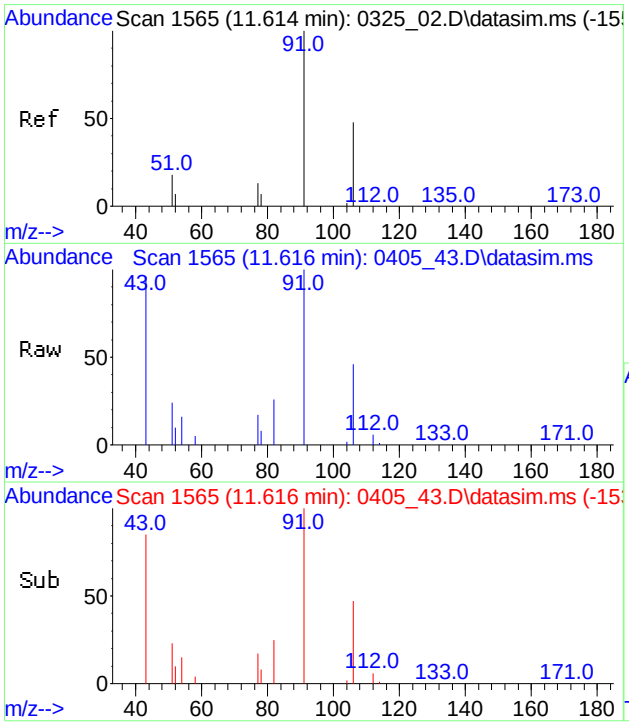




#109
m,p-Xylene(sim)
Conc: 8$ 1.812 ppbv
RT: 11.120 min Scan# 1493
Delta R.T. 0.016 min
Lab File: 0405_43.D
Acq: 6 Apr 2021 5:06 pm

Tgt Ion: 91 Resp: 149037

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 48.8 | 44.8 | 54.8 |
| 77 | 14.0 | 10.5 | 15.7 |

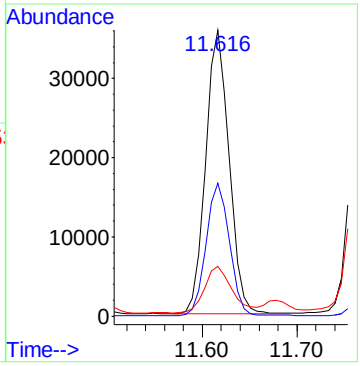





#110
o-Xylene(sim)
Conc: 8$ 0.715 ppb
RT: 11.616 min Scan# 1565
Delta R.T. 0.016 min
Lab File: 0405_43.D
Acq: 6 Apr 2021 5:06 pm

Tgt Ion: 91 Resp: 61519

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 46.4 | 37.6 | 56.4 |
| 77 | 19.8 | 9.8 | 14.8# |



1

AIR ANALYSIS DATA SHEET

CLIENT ID: SS-7 5X

Client: GC-ENV Lab: Phoenix Env. Labs

SDG No.: GCH92051 Lab Sample ID: CH92052 5X

Canister: 28567 Lab File ID: 0405_20.D

Instrument: CHEM20 Column: RTX-1 60M Date Received: 04/05/21

Purge Volume 200 (cc) Date Analyzed: 04/05/21

Matrix: AIR Dilution Factor: 5

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

| CAS NO. | COMPOUND | CONC. | Q | MDL | PQL | R |
|---|---|---|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 1.01 | U | 1.01 | 1.01 | |
| 64-17-5 | Ethanol | 133 | DS | 2.66 | 2.66 | r |
| 67-64-1 | Acetone | 34.4 | X | 2.11 | 2.11 | |
| 67-63-0 | Isopropylalcohol | 6.54 | X | 2.04 | 2.04 | |
| 75-15-0 | Carbon Disulfide | 5.41 | X | 1.61 | 1.61 | |
| 78-93-3 | Methyl Ethyl Ketone | 1.70 | U | 1.70 | 1.70 | |
| 110-54-3 | Hexane | 2.72 | X | 1.42 | 1.42 | |
| 71-55-6 | 1,1,1-Trichloroethane | 28.6 | X | 0.917 | 0.917 | |
| 110-82-7 | Cyclohexane | 2.16 | X | 1.45 | 1.45 | |
| 142-82-5 | Heptane | 2.64 | X | 1.22 | 1.22 | |
| 108-88-3 | Toluene | 4.93 | X | 1.33 | 1.33 | |
| 127-18-4 | Tetrachloroethene | 61.2 | D | 0.184 | 0.184 | r |
| 100-41-4 | Ethylbenzene | 1.15 | U | 1.15 | 1.15 | |
| 95-47-6 | o-Xylene | 1.15 | U | 1.15 | 1.15 | |
| 622-96-8 | 4-Ethyltoluene | 1.02 | U | 1.02 | 1.02 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | 1.02 | U | 1.02 | 1.02 | |
| 75-69-4 | Trichlorofluoromethane(sim) | 0.890 | U | 0.890 | 0.890 | |
| 71-43-2 | Benzene(sim) | 1.57 | U | 1.57 | 1.57 | |
| 56-23-5 | Carbon Tetrachloride(sim) | 0.159 | U | 0.159 | 0.159 | |
| 79-01-6 | Trichloroethene(sim) | 0.186 | U | 0.186 | 0.186 | |
| 179601-23-1 | m,p-Xylene(sim) | 1.64 | X | 1.15 | 1.15 | |

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:\AIR2021\CHEM20\04APR\05\
Data File : 0405_20.D
Acq On : 5 Apr 2021 9:28 pm
Operator :
Client ID : SS-7 5X
Lab ID : CH92052 5X
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Apr 06 08:26:31 2021
Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0329.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Mar 29 13:12:48 2021
Response via : Initial Calibration

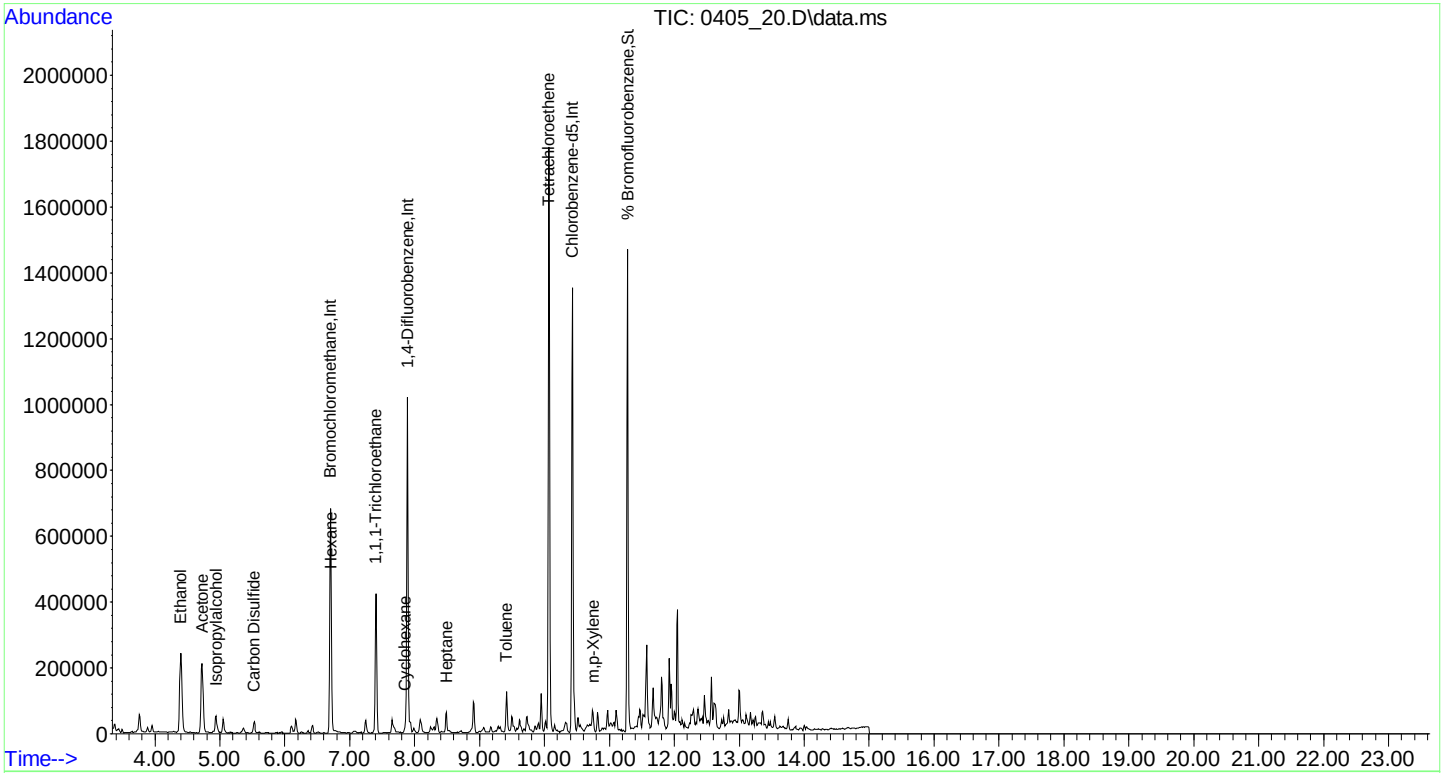
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Bromochloromethane | 6.704 | 130 | 135856 | 10.000 | ng | | 0.00 |
| 37) 1,4-Difluorobenzene | 7.889 | 114 | 538432 | 10.000 | ng | | 0.00 |
| 54) Chlorobenzene-d5 | 10.430 | 82 | 273887 | 10.000 | ng | | 0.00 |
| 81) Bromochloromethane(sim) | 6.710 | 130 | 162093 | 10.000 | ng | # | 0.00 |
| 96) 1,4-Difluorobenzene(sim) | 7.889 | 114 | 538144 | 10.000 | ng | | 0.00 |
| 106) Chlorobenzene-d5(sim) | 10.430 | 82 | 273887 | 10.000 | ng | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 63) % Bromofluorobenzene | 11.281 | 95 | 324430 | 10.051 | ppbv | | 0.00 |
| Spiked Amount 10.000 | Range 70 - 130 | | Recovery = 100.50% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 11) Ethanol | 4.394 | 45 | 305837 | 26.676 | ppbv | # | 76 |
| 12) Acetone | 4.728 | 43 | 288313 | 6.880 | ppbv | # | 84 |
| 14) Isopropylalcohol | 4.944 | 45 | 67213 | 1.309 | ppbv | # | 90 |
| 20) Carbon Disulfide | 5.528 | 76 | 40240 | 1.081 | ppbv | # | 93 |
| 28) Hexane | 6.715 | 57 | 17298 | 0.544 | ppbv | | 96 |
| 33) 1,1,1-Trichloroethane | 7.402 | 97 | 213828 | 5.729 | ppbv | | 95 |
| 36) Cyclohexane | 7.855 | 41 | 10774 | 0.433 | ppbv | | 84 |
| 40) Trichloroethene | 8.334 | 130 | 735 | 0.036 | ppbv | # | 83 |
| 44) Heptane | 8.490 | 43 | 28390 | 0.528 | ppbv | # | 93 |
| 49) Toluene | 9.415 | 91 | 50655 | 0.986 | ppbv | | 97 |
| 53) Tetrachloroethene | 10.065 | 166 | 315995 | 12.246 | ppbv | # | 82 |
| 58) m,p-Xylene | 10.748 | 91 | 17467 | 0.350 | ppbv | # | 89 |
| 87] 1,1,1-Trichloroethane(... | 7.408 | 97 | 234121 | 5.443 | ppbv | # | 97 |
| 99] Trichloroethene(sim) | 8.340 | 130 | 847 | 0.035 | ppbv | | 98 |
| 105] Tetrachloroethene(sim) | 10.071 | 166 | 383202 | 12.478 | ppbv | | 98 |
| 108] m,p-Xylene(sim) | 10.748 | 91 | 17603 | 0.327 | ppbv | # | 90 |

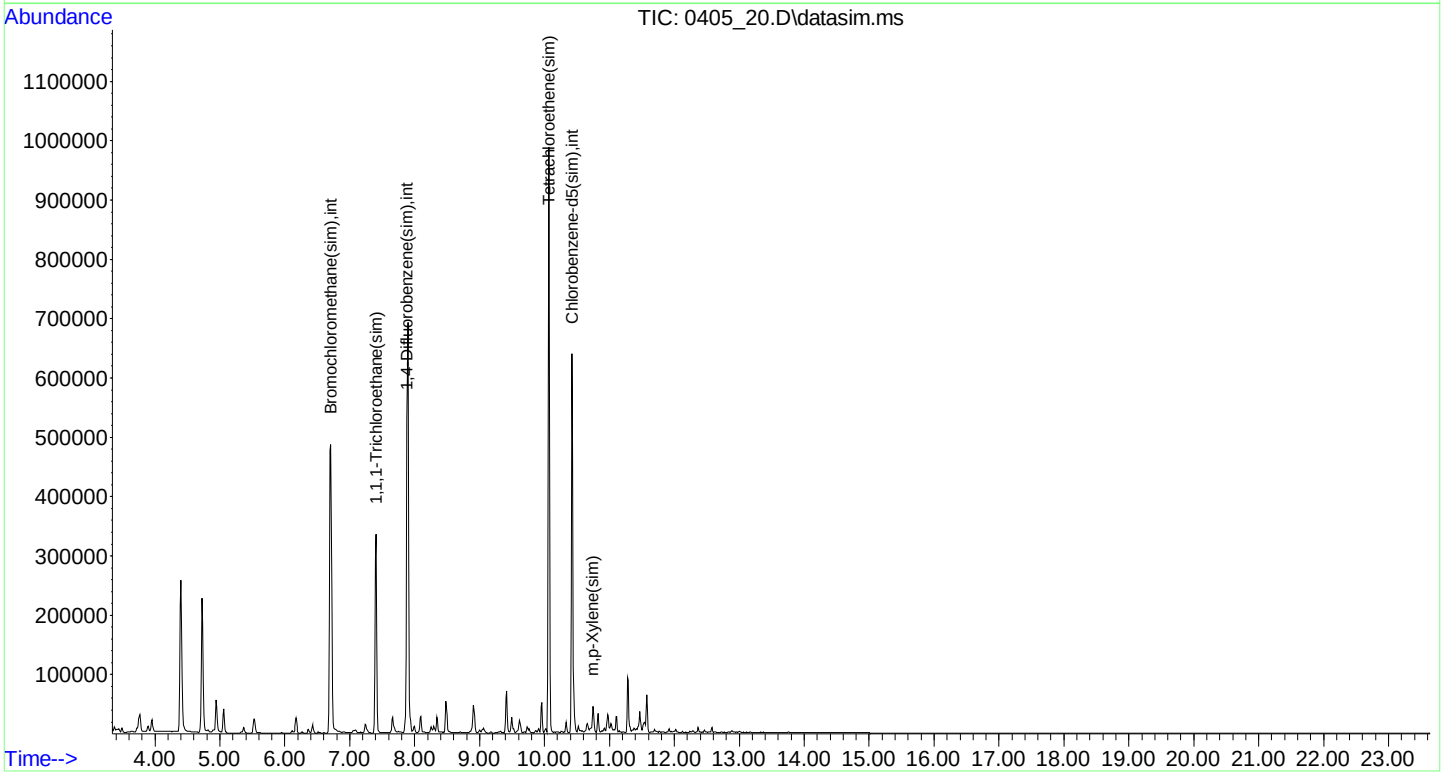
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

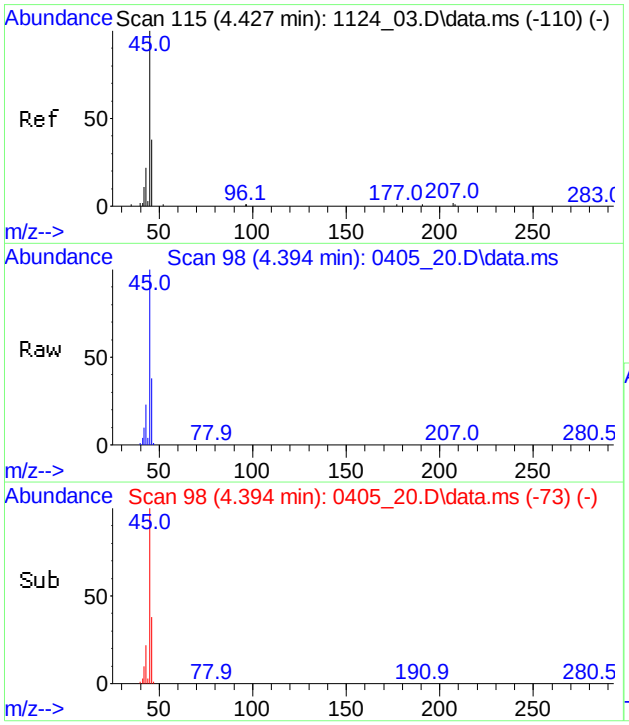
Quantitation Report (QT Reviewed)

Data Path : H:\AIR2021\CHEM20\04APR\05\
Data File : 0405_20.D
Acq On : 5 Apr 2021 9:28 pm
Operator :
Client ID : SS-7 5X
Lab ID : CH92052 5X
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Apr 06 08:26:31 2021
Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0329.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Mar 29 13:12:48 2021
Response via : Initial Calibration



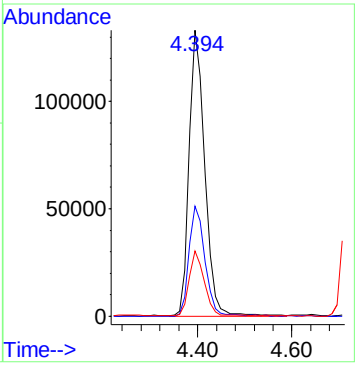



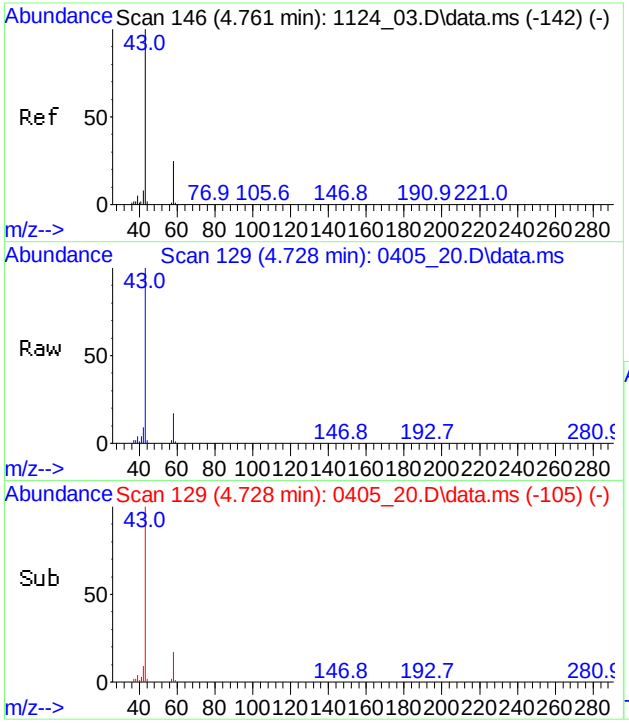



#11
Ethanol
Conc: 8$ 26.676 ppbv
RT: 4.394 min Scan# 98
Delta R.T. -0.032 min
Lab File: 0405_20.D
Acq: 5 Apr 2021 9:28 pm

Tgt Ion: 45 Resp: 305837

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 39.0 | 0.0 | 0.0# |
| 43 | 22.0 | 10.0 | 15.0# |

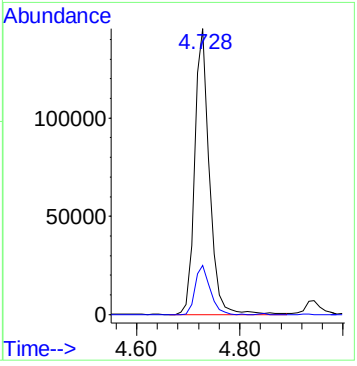


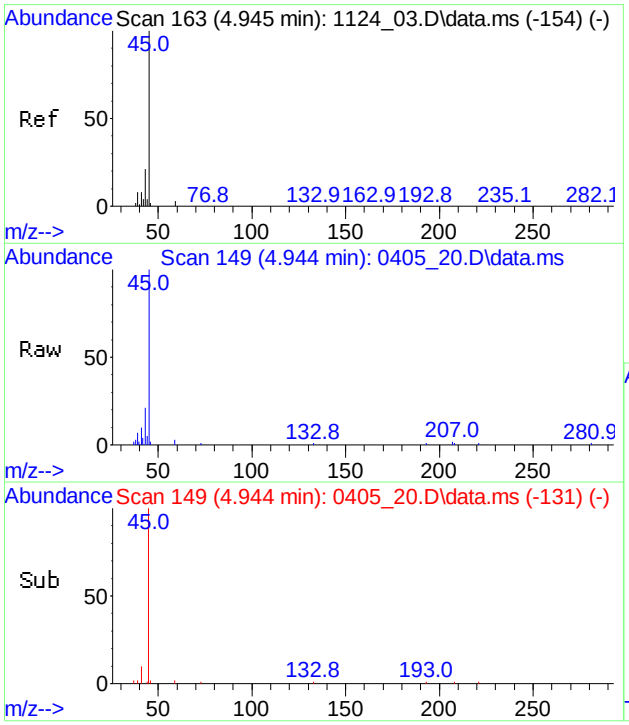




#12
Acetone
Conc: 8$ 6.880 ppbv
RT: 4.728 min Scan# 129
Delta R.T. -0.043 min
Lab File: 0405_20.D
Acq: 5 Apr 2021 9:28 pm

Tgt Ion: 43 Resp: 288313

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 17.4 | 20.4 | 30.6# |

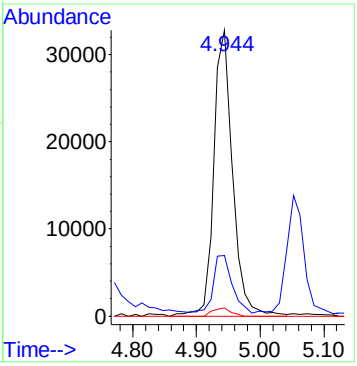


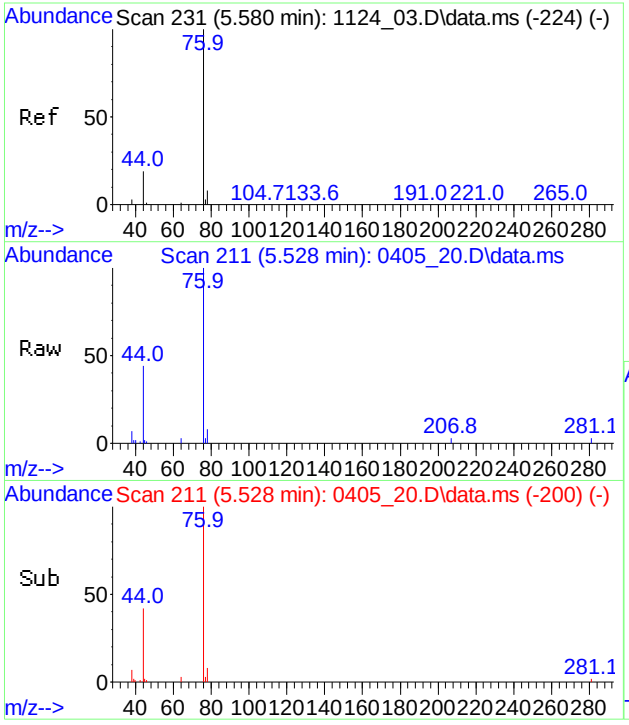



#14
Isopropylalcohol
Conc: 8$ 1.309 ppbv
RT: 4.944 min Scan# 149
Delta R.T. -0.011 min
Lab File: 0405_20.D
Acq: 5 Apr 2021 9:28 pm

Tgt Ion: 45 Resp: 67213

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 20.2 | 20.6 | 31.0# |
| 59 | 2.8 | 2.1 | 3.1 |

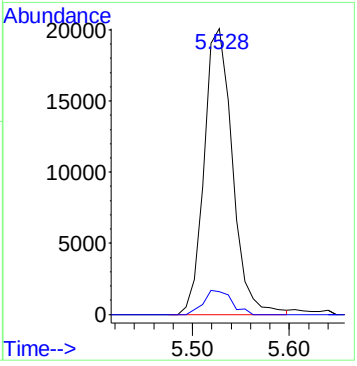


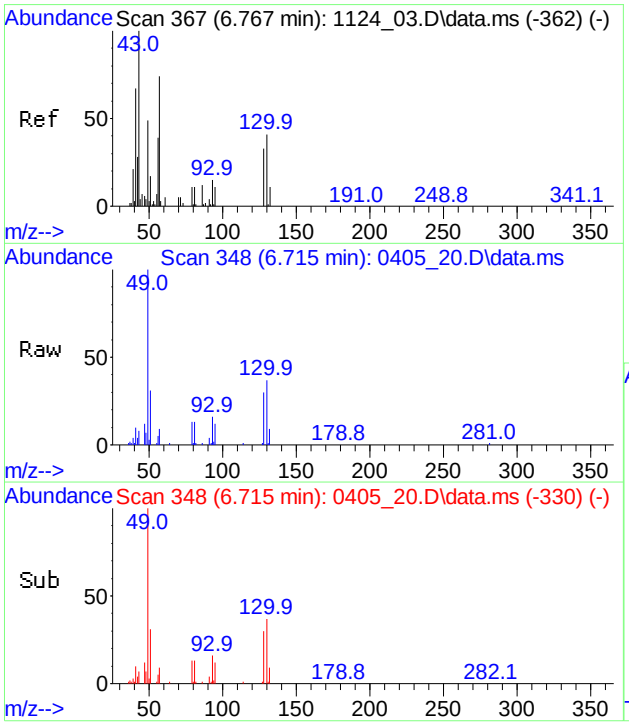




#20
Carbon Disulfide
Conc: 8$ 1.081 ppbv
RT: 5.528 min Scan# 211
Delta R.T. -0.009 min
Lab File: 0405_20.D
Acq: 5 Apr 2021 9:28 pm

Tgt Ion: 76 Resp: 40240

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 8.3 | 8.7 | 13.1# |

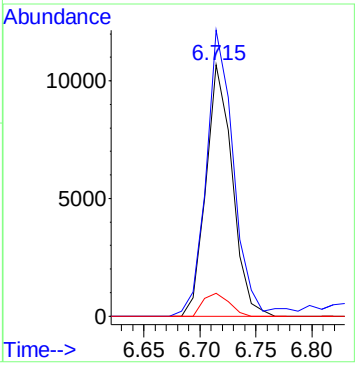


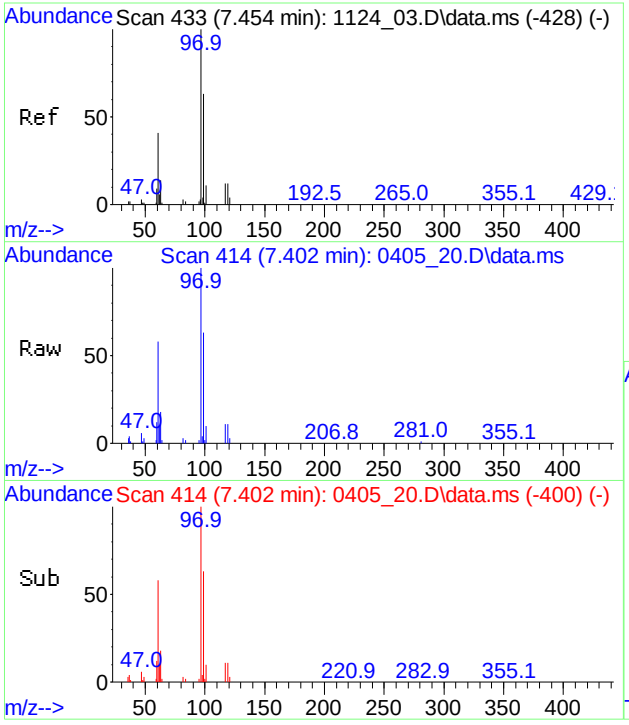



#28
Hexane
Conc: 8$ 0.544 ppbv
RT: 6.715 min Scan# 348
Delta R.T. -0.010 min
Lab File: 0405_20.D
Acq: 5 Apr 2021 9:28 pm

Tgt Ion: 57 Resp: 17298

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 119.3 | 91.8 | 137.8 |
| 86 | 9.1 | 7.4 | 11.2 |

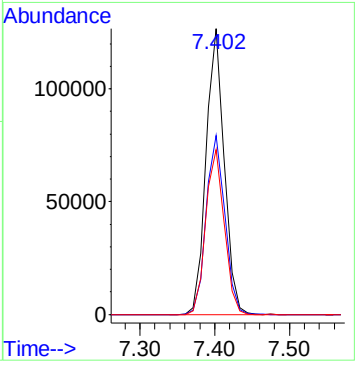


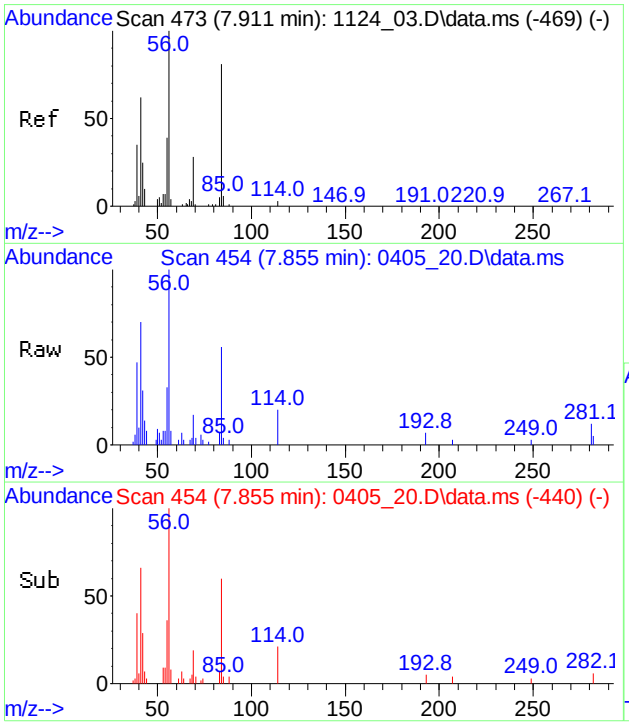




#33
1,1,1-Trichloroethane
Conc: 8$ 5.729 ppbv
RT: 7.402 min Scan# 414
Delta R.T. 0.000 min
Lab File: 0405_20.D
Acq: 5 Apr 2021 9:28 pm

Tgt Ion: 97 Resp: 213828

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 64.7 | 53.8 | 80.8 |
| 61 | 58.9 | 51.4 | 77.0 |

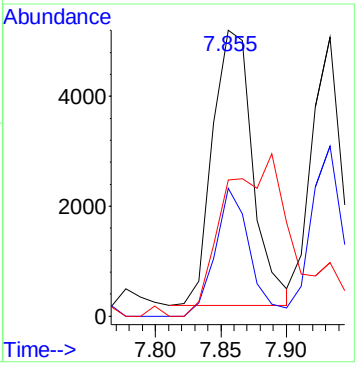


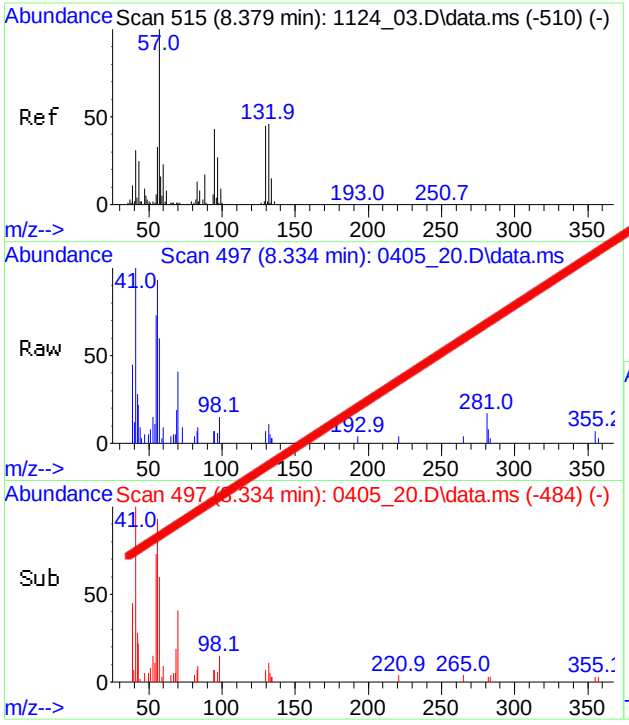



#36
Cyclohexane
Conc: 8$ 0.433 ppbv
RT: 7.855 min Scan# 454
Delta R.T. 0.000 min
Lab File: 0405_20.D
Acq: 5 Apr 2021 9:28 pm

Tgt Ion: 41 Resp: 10774

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 39.8 | 36.9 | 55.3 |
| 55 | 88.6 | 86.2 | 129.4 |

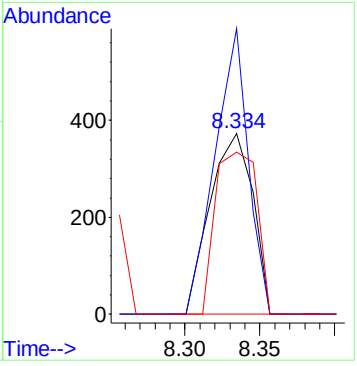


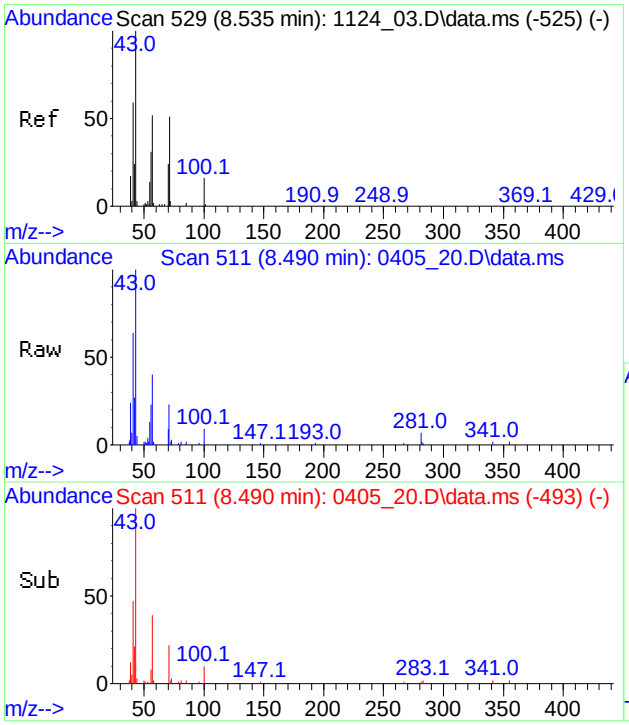




#40
Trichloroethene
Conc: 8$ Below Cal
RT: 8.334 min Scan# 497
Delta R.T. 0.000 min
Lab File: 0405_20.D
Acq: 5 Apr 2021 9:28 pm

Tgt Ion:130 Resp: 735

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 132 | 122.7 | 85.0 | 127.6 |
| 97 | 87.2 | 57.5 | 86.3# |

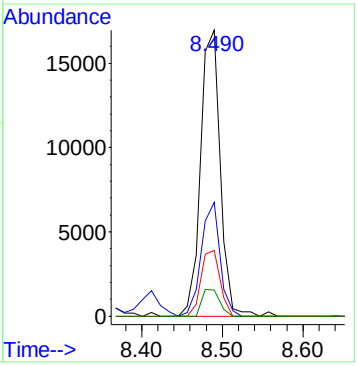


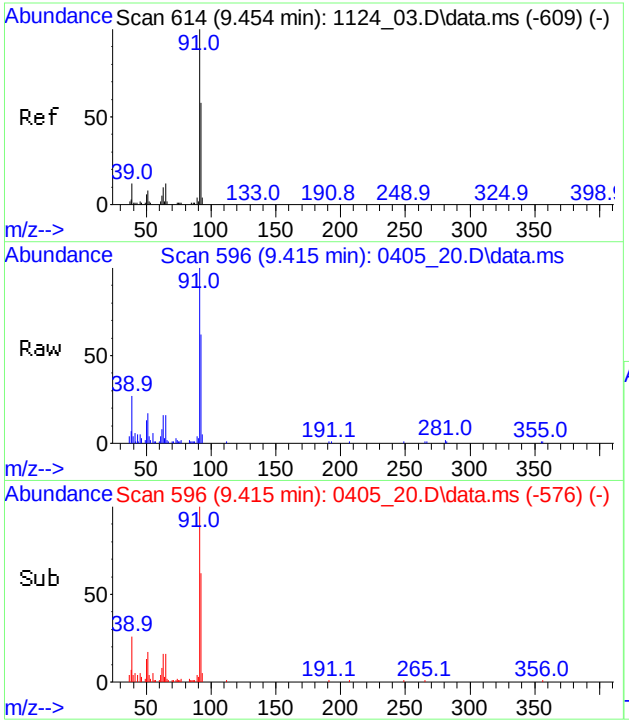



#44
Heptane
Conc: 8$ 0.528 ppbv
RT: 8.490 min Scan# 511
Delta R.T. 0.000 min
Lab File: 0405_20.D
Acq: 5 Apr 2021 9:28 pm

Tgt Ion: 43 Resp: 28390

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 57 | 37.8 | 31.5 | 47.3 |
| 71 | 22.1 | 24.0 | 36.0# |
| 100 | 8.3 | 7.0 | 10.6 |

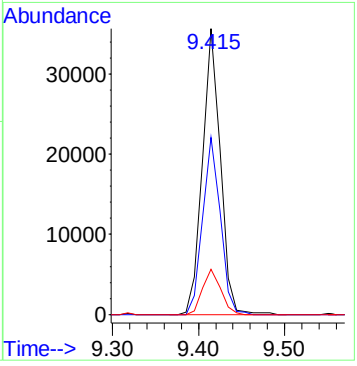


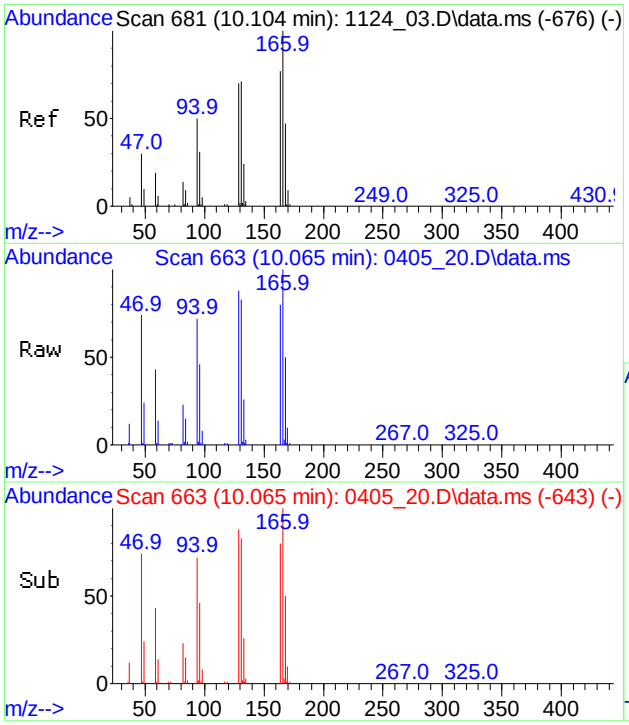




#49
Toluene
Conc: 8$ 0.986 ppbv
RT: 9.415 min Scan# 596
Delta R.T. -0.009 min
Lab File: 0405_20.D
Acq: 5 Apr 2021 9:28 pm

Tgt Ion: 91 Resp: 50655

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 61.0 | 46.8 | 70.2 |
| 65 | 16.1 | 11.5 | 17.3 |

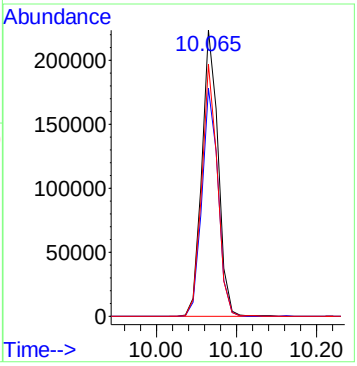


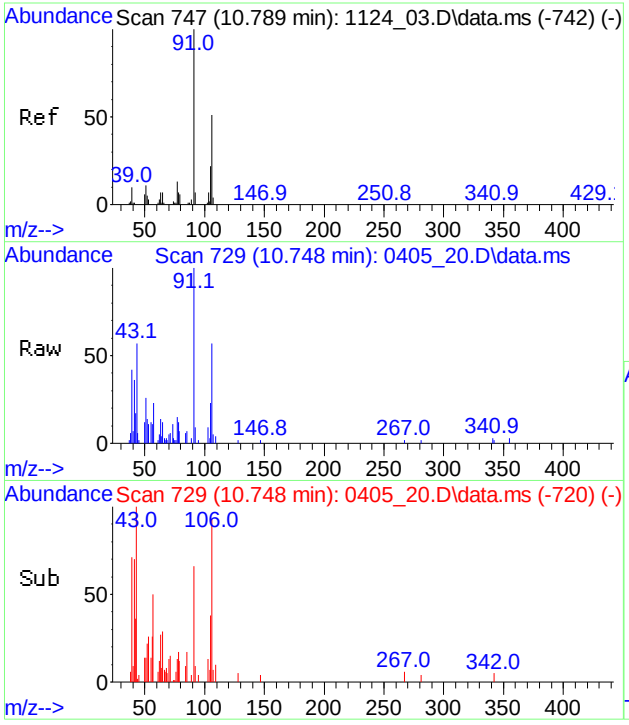



#53
Tetrachloroethene
Conc: 8$ 12.246 ppbv
RT: 10.065 min Scan# 663
Delta R.T. -0.010 min
Lab File: 0405_20.D
Acq: 5 Apr 2021 9:28 pm

Tgt Ion:166 Resp: 315995

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 164 | 78.8 | 52.6 | 78.8 |
| 129 | 84.6 | 55.5 | 83.3# |

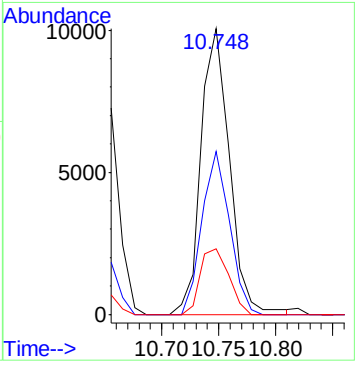


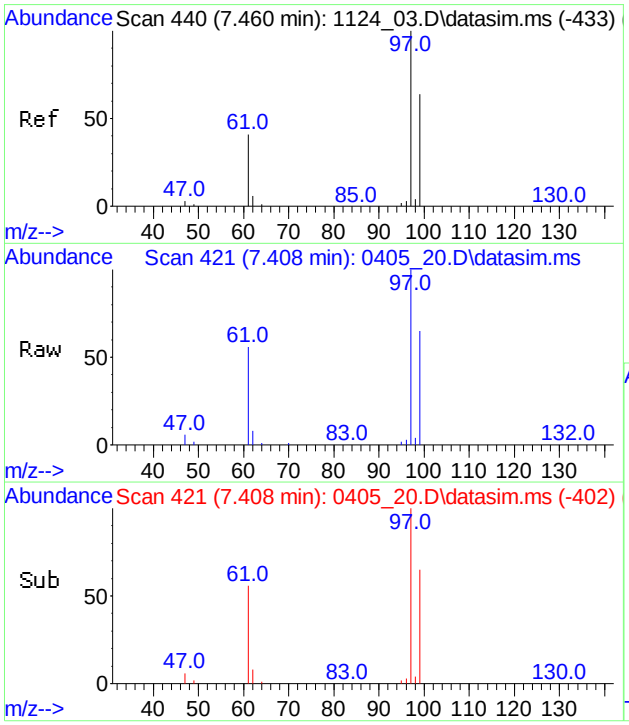




#58
m,p-Xylene
Conc: 8$ 0.350 ppbv
RT: 10.748 min Scan# 729
Delta R.T. -0.010 min
Lab File: 0405_20.D
Acq: 5 Apr 2021 9:28 pm

Tgt Ion: 91 Resp: 17467

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 55.3 | 36.6 | 54.8# |
| 105 | 23.2 | 17.4 | 26.0 |

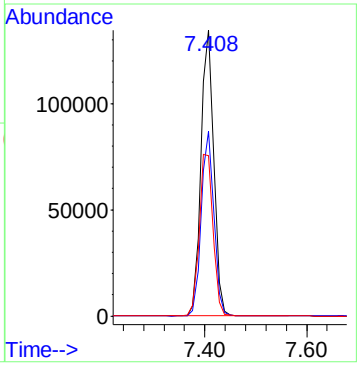


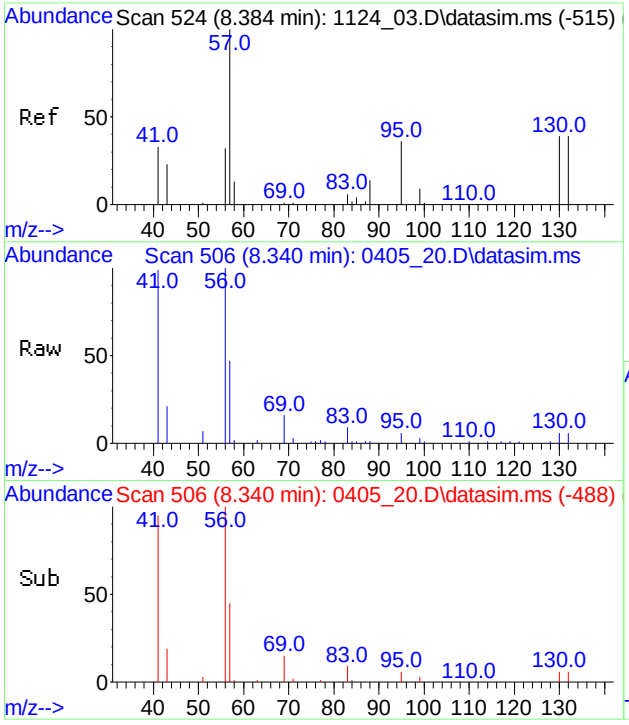



#87
1,1,1-Trichloroethane(sim)
Conc: 8$ 5.443 ppbv
RT: 7.408 min Scan# 421
Delta R.T. 0.001 min
Lab File: 0405_20.D
Acq: 5 Apr 2021 9:28 pm

Tgt Ion: 97 Resp: 234121

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 63.6 | 62.4 | 62.4# |
| 61 | 60.8 | 46.0 | 69.0 |

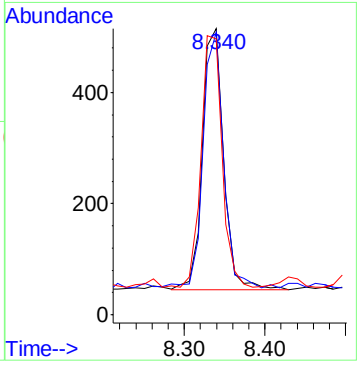


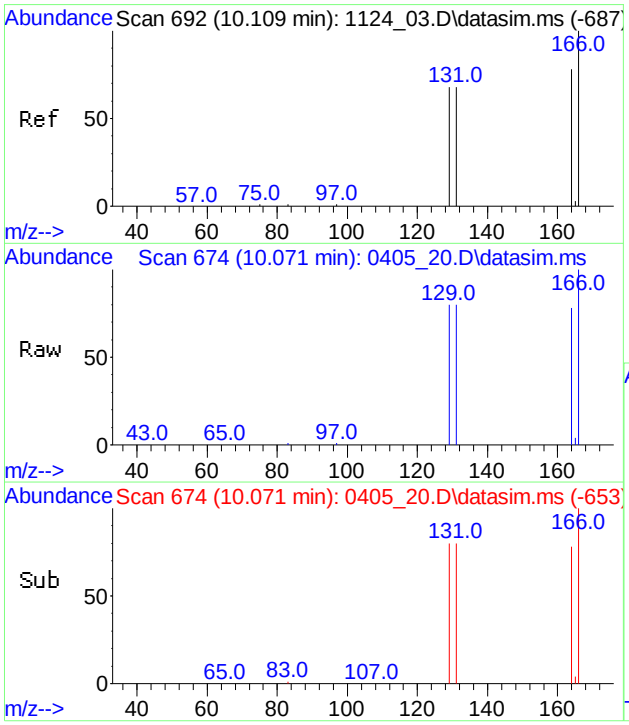




#99
Trichloroethene(sim)
Conc: 8$ 0.035 ppbv
RT: 8.340 min Scan# 506
Delta R.T. -0.000 min
Lab File: 0405_20.D
Acq: 5 Apr 2021 9:28 pm

Tgt Ion:130 Resp: 847

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 132 | 94.0 | 78.1 | 117.1 |
| 95 | 95.7 | 75.8 | 113.6 |

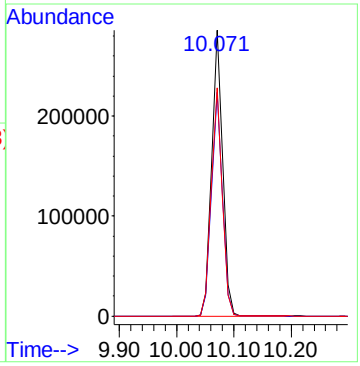


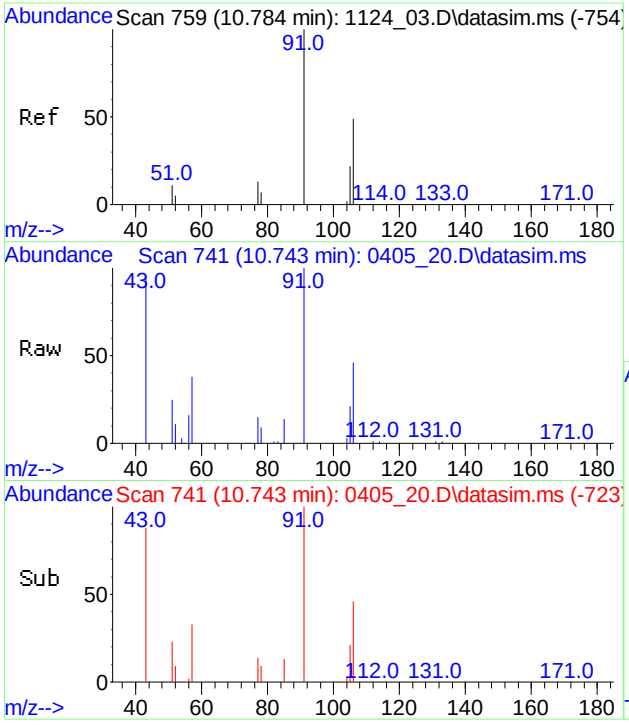



#105
Tetrachloroethene(sim)
Conc: 8$ 12.478 ppbv
RT: 10.071 min Scan# 674
Delta R.T. 0.001 min
Lab File: 0405_20.D
Acq: 5 Apr 2021 9:28 pm

Tgt Ion:166 Resp: 383202

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 164 | 78.8 | 58.1 | 98.1 |
| 129 | 80.1 | 56.6 | 96.6 |

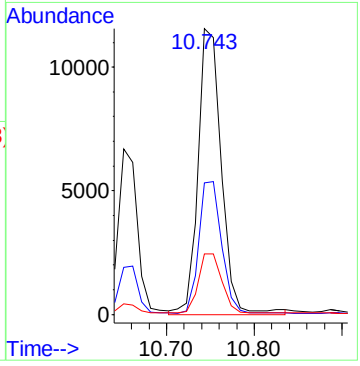



#108
m,p-Xylene(sim)
Conc: 8$ 0.327 ppbv
RT: 10.748 min Scan# 741
Delta R.T. -0.010 min
Lab File: 0405_20.D
Acq: 5 Apr 2021 9:28 pm

Tgt Ion: 91 Resp: 17603

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 54.9 | 41.1 | 50.3# |
| 105 | 23.0 | 17.4 | 26.0 |



1

AIR ANALYSIS DATA SHEET

CLIENT ID: SS-5

Client: GC-ENV Lab: Phoenix Env. Labs

SDG No.: GCH92051 Lab Sample ID: CH92053

Canister: 13561 Lab File ID: 0405_44.D

Instrument: CHEM24 Column: RTX-VMS Date Received: 04/05/21

Purge Volume 200 (cc) Date Analyzed: 04/06/21

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 | 0.450 | | 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 | 366 | ES | 0.531 | 0.531 | |
| 67-64-1 | Acetone | 19.4 | S | 0.421 | 0.421 | r |
| 67-63-0 | Isopropylalcohol | 16.6 | 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 | 0.863 | | 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 |
| 71-55-6 | 1,1,1-Trichloroethane | 14.1 | | 0.183 | 0.183 | r |
| 110-82-7 | Cyclohexane | 0.291 | U | 0.291 | 0.291 | r |
| 123-91-1 | 1,4-Dioxane | 6.26 | | 0.278 | 0.278 | 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 | 2.88 | | 0.266 | 0.266 | r |
| 591-78-6 | 2-Hexanone(MBK) | 0.244 | U | 0.244 | 0.244 | r |
| 127-18-4 | Tetrachloroethene | 2.34 | | 0.037 | 0.037 | r |
| 108-90-7 | Chlorobenzene | 0.217 | U | 0.217 | 0.217 | r |
| 100-41-4 | Ethylbenzene | 0.456 | | 0.230 | 0.230 | r |
| 179601-23-1 | m,p-Xylene | 0.796 | | 0.230 | 0.230 | r |
| 100-42-5 | Styrene | 0.235 | U | 0.235 | 0.235 | r |
| 95-47-6 | o-Xylene | 0.289 | | 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

AIR ANALYSIS DATA SHEET

CLIENT ID: SS-5

Client: GC-ENV Lab: Phoenix Env. Labs

SDG No.: GCH92051 Lab Sample ID: CH92053

Canister: 13561 Lab File ID: 0405_44.D

Instrument: CHEM24 Column: RTX-VMS Date Received: 04/05/21

Purge Volume 200 (cc) Date Analyzed: 04/06/21

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 |
| 75-69-4 | Trichlorofluoromethane(sim) | 0.199 | | 0.178 | 0.178 | r |
| 71-43-2 | Benzene(sim) | 0.313 | U | 0.313 | 0.313 | r |
| 56-23-5 | Carbon Tetrachloride(sim) | 0.065 | | 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 |
| 10061-01-5 | cis-1,3-Dichloropropene(sim) | 0.221 | U | 0.221 | 0.221 | r |
| 79-00-5 | 1,1,2-Trichloroethane(sim) | 0.183 | U | 0.183 | 0.183 | r |
| 124-48-1 | Dibromochloromethane(sim) | 0.118 | U | 0.118 | 0.118 | r |
| 106-93-4 | 1,2-Dibromoethane(EDB)(sim) | 0.130 | U | 0.130 | 0.130 | r |
| 75-25-2 | Bromoform(sim) | 0.097 | U | 0.097 | 0.097 | r |
| 630-20-6 | 1,1,1,2-Tetrachloroethane(sim) | 0.146 | U | 0.146 | 0.146 | r |
| 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:\AIR2021\CHEM24\04APR\05\
Data File : 0405_44.D
Acq On : 6 Apr 2021 5:42 pm
Operator : Keith
Client ID : SS-5
Lab ID : CH92053
ALS Vial : 42 Sample Multiplier: 1

Quant Time: Apr 07 08:17:57 2021
Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 26 09:02:26 2021
Response via : Initial Calibration

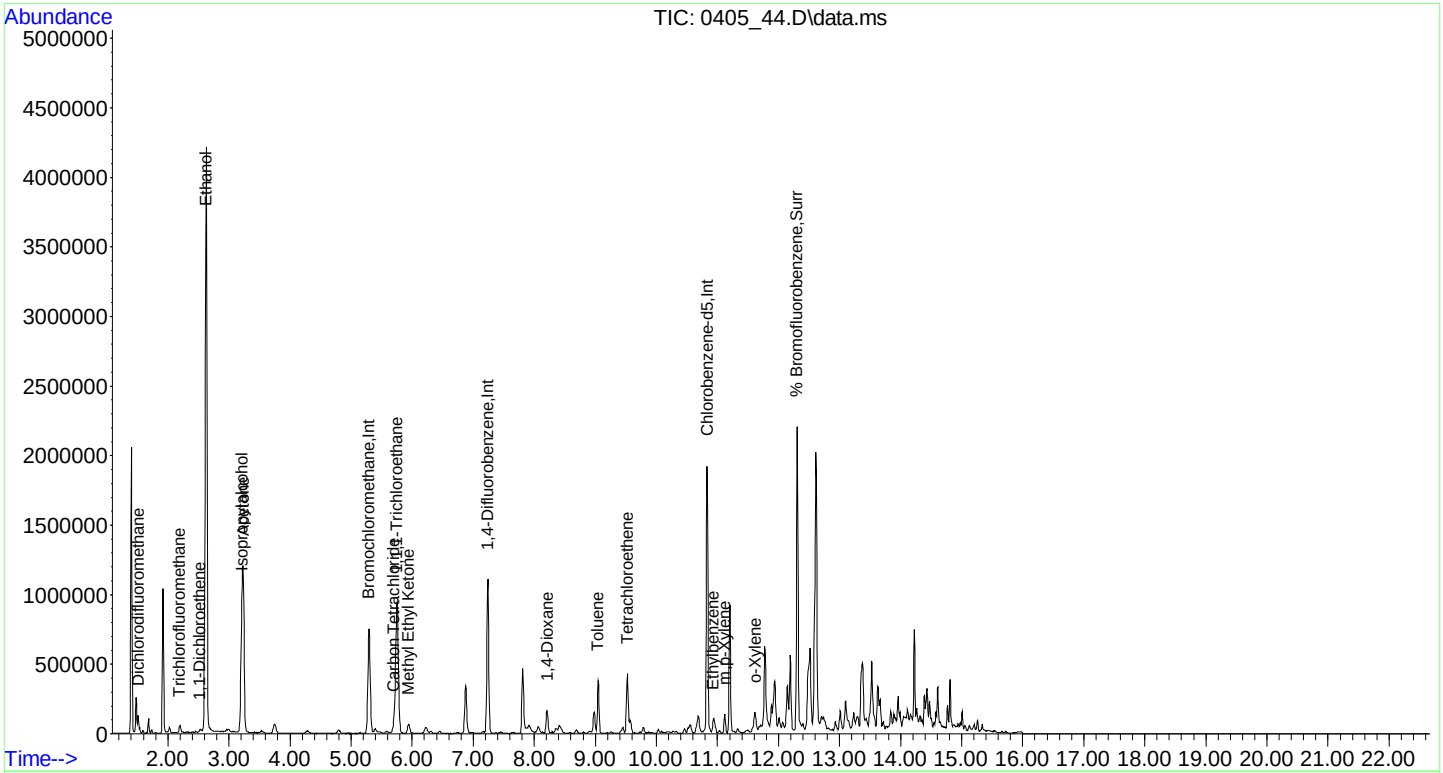
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Bromochloromethane | 5.294 | 130 | 311711 | 10.000 | ng | | 0.03 |
| 36) 1,4-Difluorobenzene | 7.238 | 114 | 990087 | 10.000 | ng | | 0.01 |
| 53) Chlorobenzene-d5 | 10.830 | 82 | 458251 | 10.000 | ng | | 0.01 |
| 80) Bromochloromethane(sim) | 5.297 | 130 | 323024 | 10.000 | ng | # | 0.03 |
| 95) 1,4-Difluorobenzene(sim) | 7.238 | 114 | 990087 | 10.000 | ng | | 0.01 |
| 105) Chlorobenzene-d5(sim) | 10.830 | 82 | 458251 | 10.000 | ng | | 0.01 |
| System Monitoring Compounds | | | | | | | |
| 62) % Bromofluorobenzene | 12.303 | 95 | 627408 | 9.871 | ppbv | | 0.00 |
| Spiked Amount 10.000 | Range 70 - 130 | | Recovery = | 98.70% | | | |
| Target Compounds | | | | | | | Qvalue |
| 3) Dichlorodifluoromethane | 1.513 | 85 | 25597 | 0.450 | ppbv | | 99 |
| 10) Ethanol | 2.629 | 45 | 5072059 | 366.225 | ppbv | | 96 |
| 12) Acetone | 3.231 | 43 | 1556323 | 19.422 | ppbv | | 98 |
| 13) Trichlorofluoromethane | 2.191 | 101 | 17122 | 0.214 | ppbv | | 97 |
| 14) Isopropylalcohol | 3.210 | 45 | 1179739 | 16.602 | ppbv# | | 75 |
| 16) 1,1-Dichloroethene | 2.526 | 61 | 4198 | 0.087 | ppbv# | | 38 |
| 25) Methyl Ethyl Ketone | 5.942 | 43 | 71318 | 0.863 | ppbv# | | 96 |
| 32) 1,1,1-Trichloroethane | 5.755 | 97 | 914861 | 14.089 | ppbv | | 92 |
| 34) Carbon Tetrachloride | 5.697 | 117 | 5252m | 0.071 | ppbv | | 91 |
| 41) 1,4-Dioxane | 8.209 | 88 | 83707 | 6.260 | ppbv | | 99 |
| 48) Toluene | 9.047 | 91 | 232488 | 2.882 | ppbv | | 98 |
| 52) Tetrachloroethene | 9.523 | 166 | 112941 | 2.339 | ppbv | | 96 |
| 56) Ethylbenzene | 10.932 | 91 | 52365 | 0.455 | ppbv | | 99 |
| 57) m,p-Xylene | 11.118 | 91 | 68871 | 0.796 | ppbv | | 98 |
| 61) o-Xylene | 11.619 | 91 | 25008 | 0.289 | ppbv | | 98 |
| 68) 1,2,4-Trimethylbenzene | 13.231 | 105 | 19814 | 0.199 | ppbv# | | 96 |
| 84] Trichlorofluoromethane... | 2.194 | 101 | 18248 | 0.199 | ppbv | | 100 |
| 85] 1,1,1-Trichloroethane(... | 5.755 | 97 | 914848 | 13.434 | ppbv# | | 93 |
| 87] Carbon Tetrachloride(sim) | 5.664 | 117 | 5093m | 0.065 | ppbv | | 97 |
| 99] 1,4-Dioxane(sim) | 8.209 | 88 | 83707 | 6.270 | ppbv | | 99 |
| 104] Tetrachloroethene(sim) | 9.526 | 166 | 119129 | 2.301 | ppbv | | 99 |
| 108] Ethylbenzene(sim) | 10.935 | 91 | 55813 | 0.445 | ppb | | 100 |
| 109] m,p-Xylene(sim) | 11.118 | 91 | 68871 | 0.807 | ppbv | | 98 |
| 110] o-Xylene(sim) | 11.615 | 91 | 27441 | 0.307 | ppb | # | 96 |

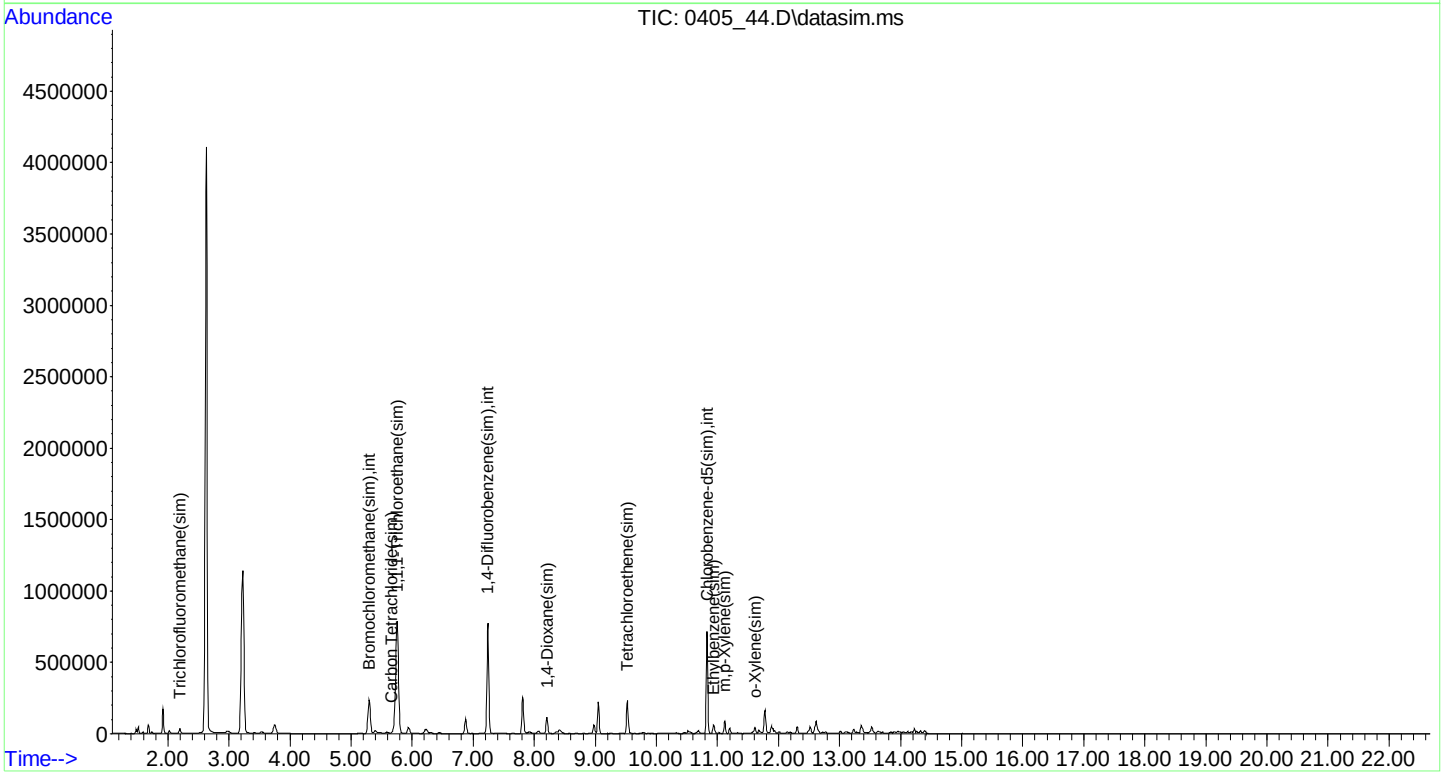
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

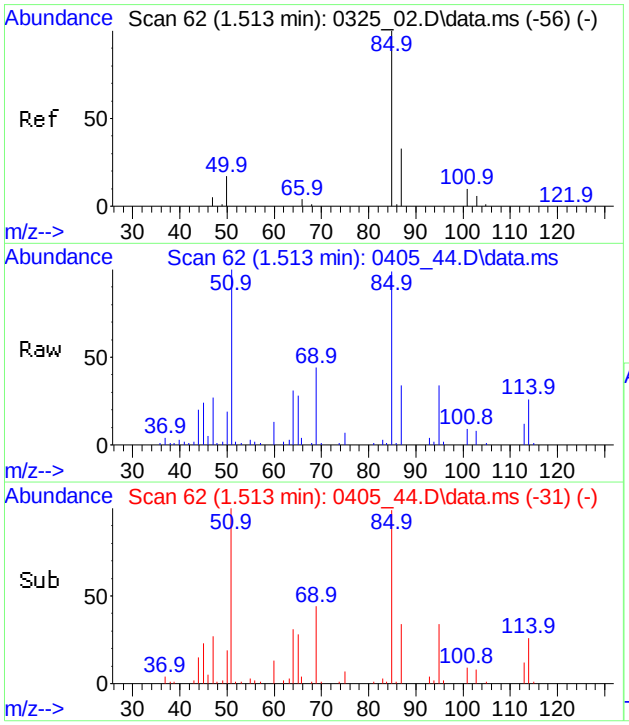
Quantitation Report (QT Reviewed)

Data Path : H:\AIR2021\CHEM24\04APR\05\
Data File : 0405_44.D
Acq On : 6 Apr 2021 5:42 pm
Operator : Keith
Client ID : SS-5
Lab ID : CH92053
ALS Vial : 42 Sample Multiplier: 1

Quant Time: Apr 07 08:17:57 2021
Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 26 09:02:26 2021
Response via : Initial Calibration



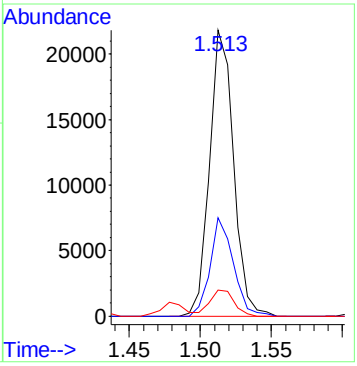



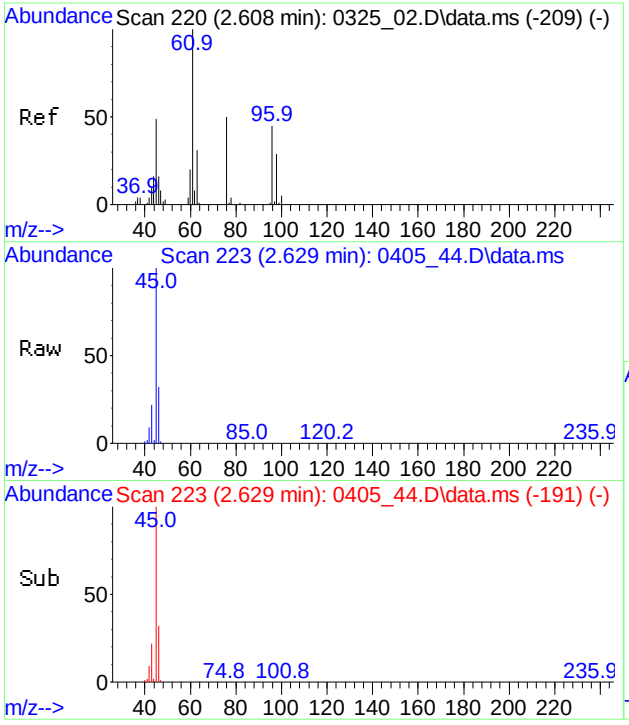



#3
Dichlorodifluoromethane
Conc: 8$ 0.450 ppbv
RT: 1.513 min Scan# 62
Delta R.T. 0.014 min
Lab File: 0405_44.D
Acq: 6 Apr 2021 5:42 pm

Tgt Ion: 85 Resp: 25597

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 33.3 | 26.6 | 40.0 |
| 101 | 9.1 | 7.9 | 11.9 |

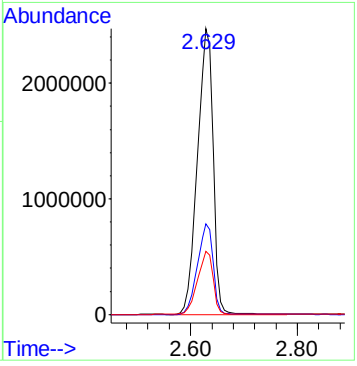


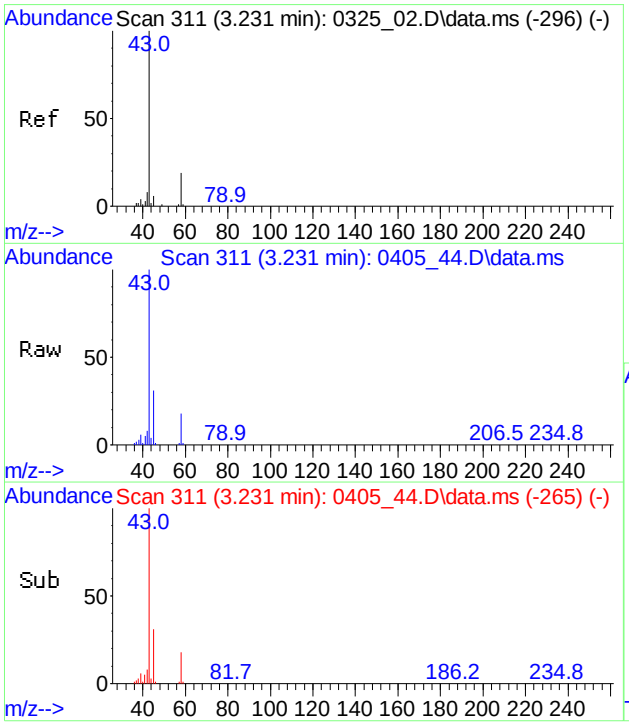




#10
Ethanol
Conc: 8$ 366.225 ppbv
RT: 2.629 min Scan# 223
Delta R.T. 0.034 min
Lab File: 0405_44.D
Acq: 6 Apr 2021 5:42 pm

Tgt Ion: 45 Resp: 5072059

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 31.6 | 27.8 | 41.6 |
| 43 | 22.0 | 17.3 | 25.9 |

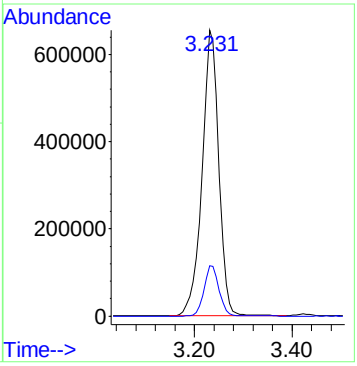


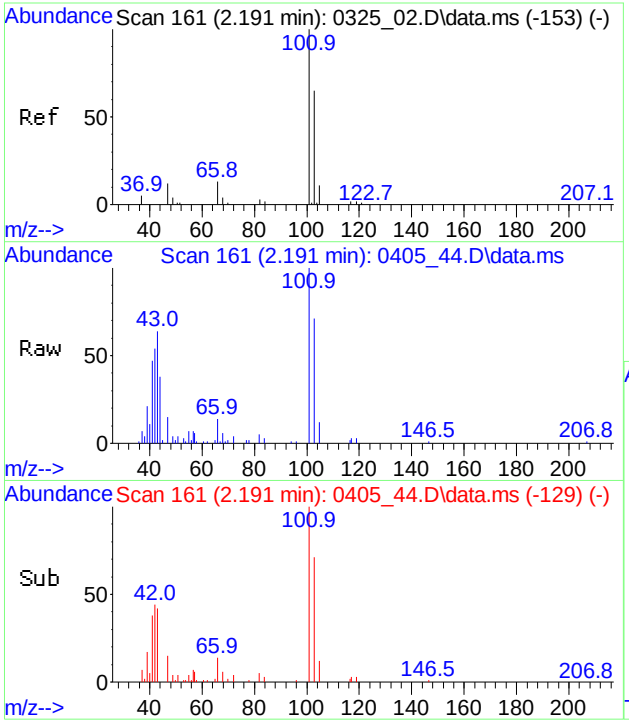



#12
Acetone
Conc: 8$ 19.422 ppbv
RT: 3.231 min Scan# 311
Delta R.T. 0.014 min
Lab File: 0405_44.D
Acq: 6 Apr 2021 5:42 pm

Tgt Ion: 43 Resp: 1556323

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 15.8 | 13.2 | 19.8 |

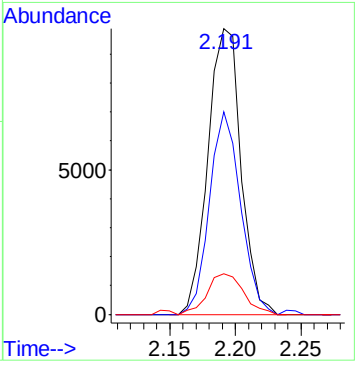


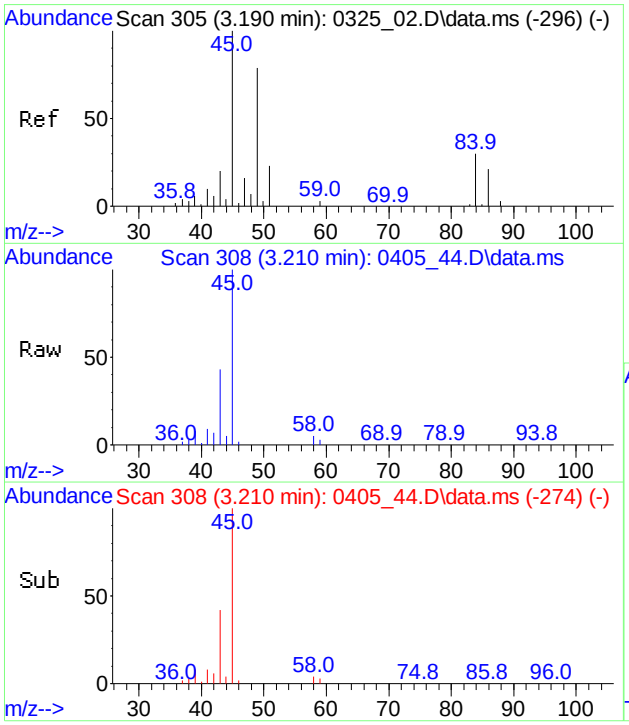




#13
Trichlorofluoromethane
Conc: 8$ 0.214 ppbv
RT: 2.191 min Scan# 161
Delta R.T. 0.021 min
Lab File: 0405_44.D
Acq: 6 Apr 2021 5:42 pm

Tgt Ion:101 Resp: 17122

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 66.6 | 51.5 | 77.3 |
| 66 | 15.7 | 10.6 | 15.8 |

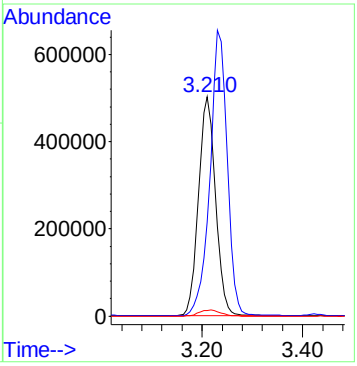


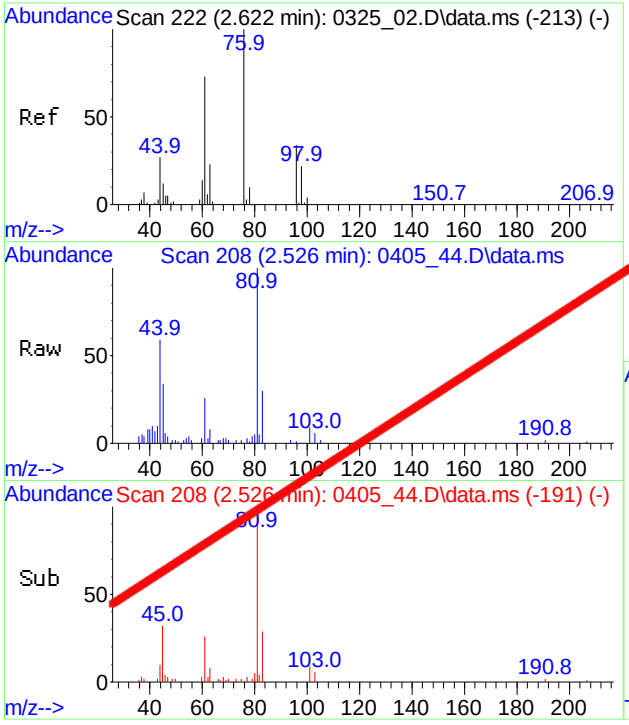



#14
Isopropylalcohol
Conc: 8$ 16.602 ppbv
RT: 3.210 min Scan# 308
Delta R.T. 0.034 min
Lab File: 0405_44.D
Acq: 6 Apr 2021 5:42 pm

Tgt Ion: 45 Resp: 1179739

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 131.9 | 84.1 | 126.1# |
| 59 | 3.4 | 2.6 | 4.0 |

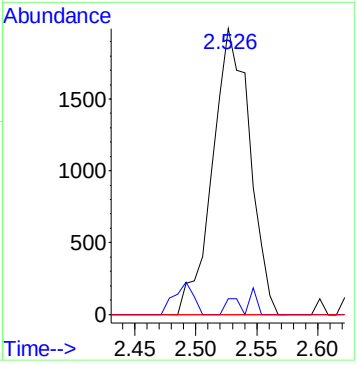


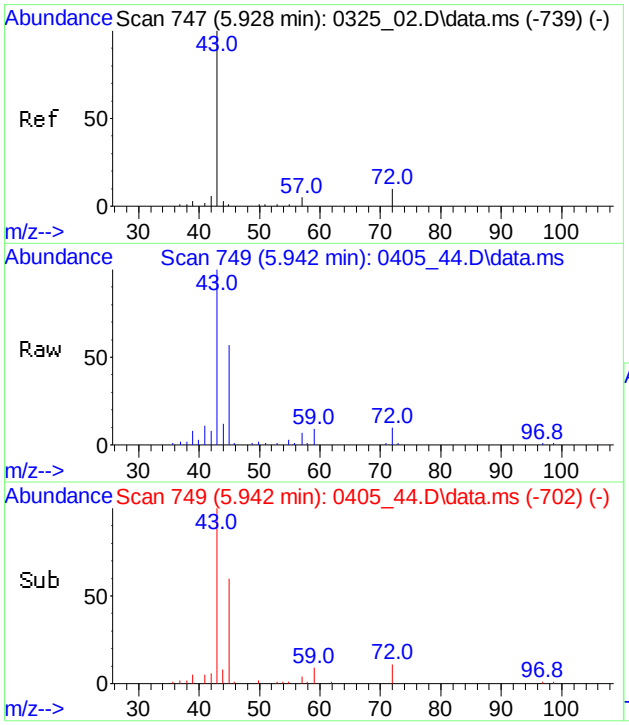




#16
1,1-Dichloroethene
Conc: 8$ Below Cal
RT: 2.526 min Scan# 208
Delta R.T. -0.075 min
Lab File: 0405_44.D
Acq: 6 Apr 2021 5:42 pm

Tgt Ion: 61 Resp: 4198

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 61 | 100 | | |
| 96 | 2.1 | 37.2 | 55.8# |
| 98 | 0.0 | 24.0 | 36.0# |

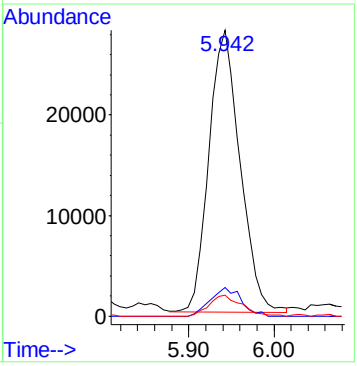


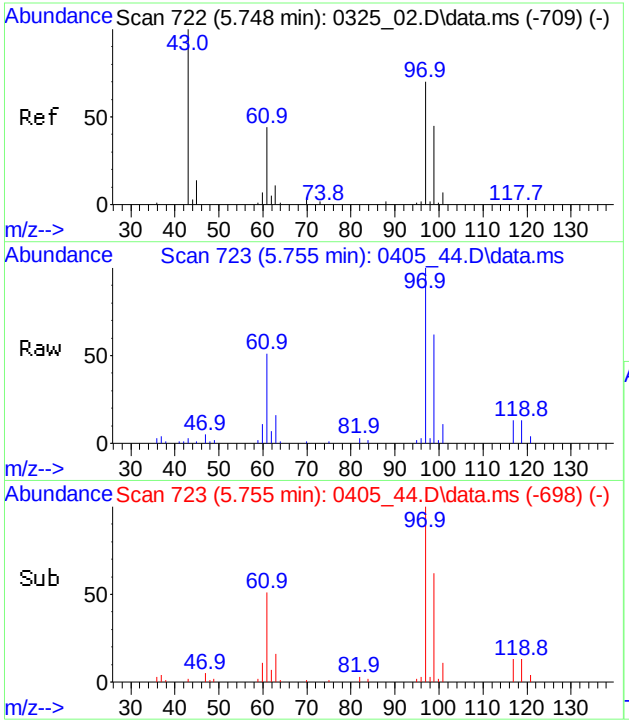



#25
Methyl Ethyl Ketone
Conc: 8$ 0.863 ppbv
RT: 5.942 min Scan# 749
Delta R.T. 0.036 min
Lab File: 0405_44.D
Acq: 6 Apr 2021 5:42 pm

Tgt Ion: 43 Resp: 71318

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 9.9 | 8.5 | 12.7 |
| 57 | 7.7 | 4.2 | 6.4# |

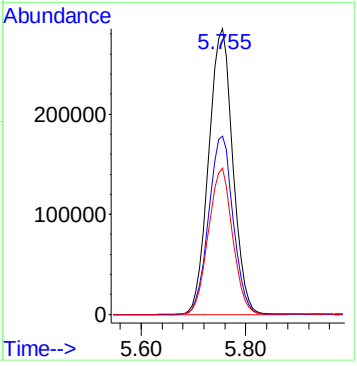


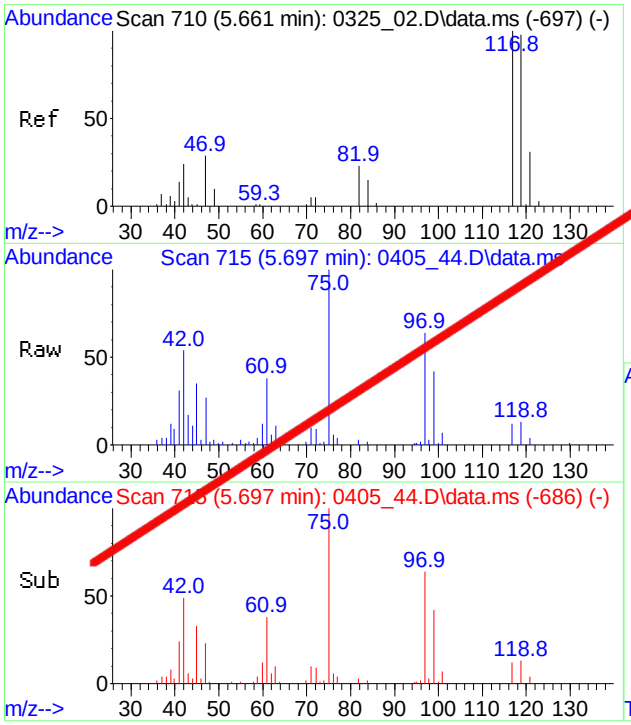




#32
1,1,1-Trichloroethane
Conc: 8$ 14.089 ppbv
RT: 5.755 min Scan# 723
Delta R.T. 0.029 min
Lab File: 0405_44.D
Acq: 6 Apr 2021 5:42 pm

Tgt Ion: 97 Resp: 914861

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 63.5 | 51.3 | 76.9 |
| 61 | 51.5 | 50.1 | 75.1 |

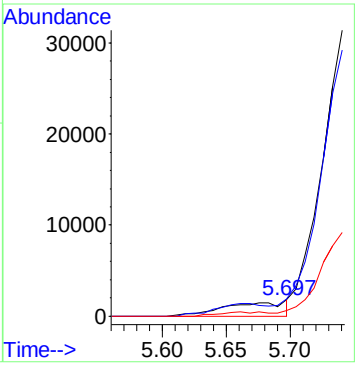


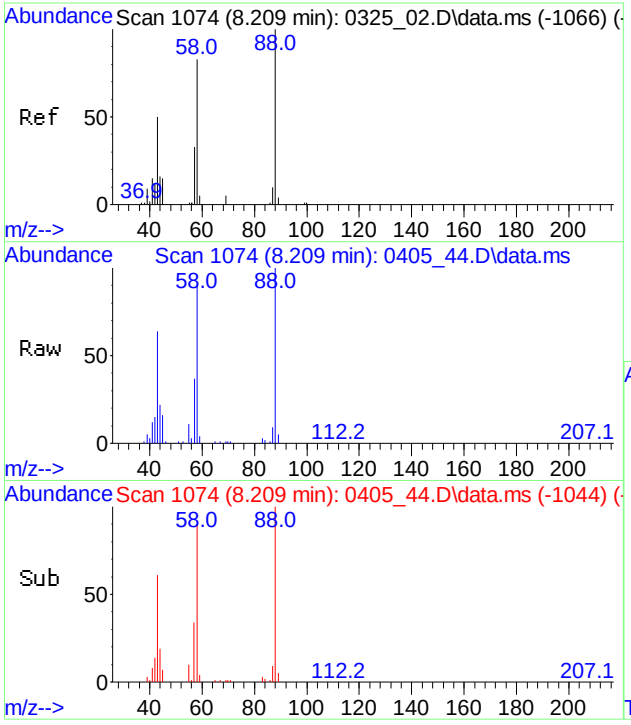



#34
Carbon Tetrachloride
Conc: 8$  Below Cal
RT:  5.697 min  Scan# 715
Delta R.T  0.058 min
Lab File:  0405_44.D
Acq:  6 Apr 2021  5:42 pm

Tgt Ion:117 Resp:  5252

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 2037.1 | 78.0 | 118.0# |
| 121 | 655.6 | 12.1 | 52.1# |

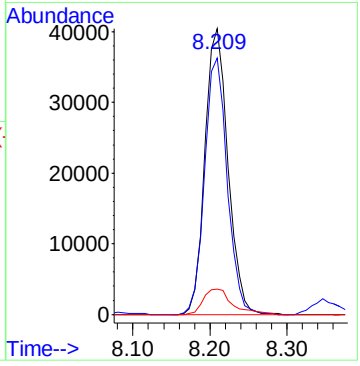


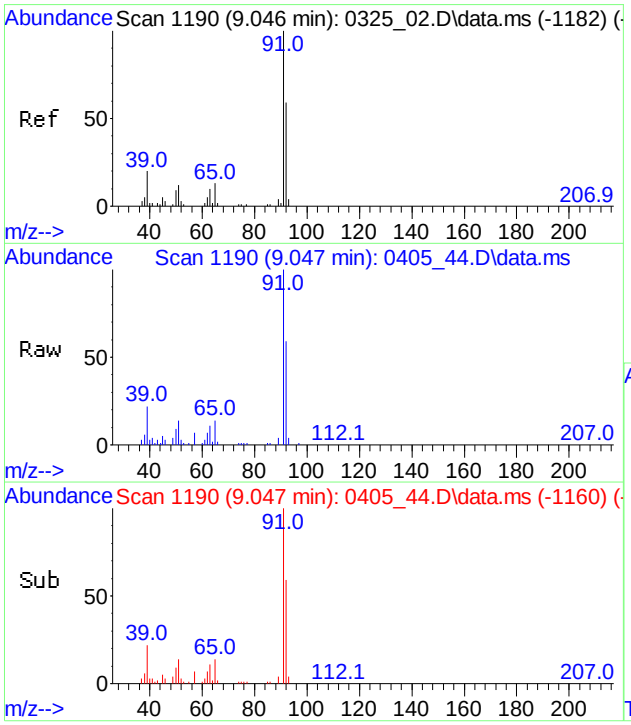




#41
1,4-Dioxane
Conc: 8$  6.260 ppbv
RT:  8.209 min  Scan# 1074
Delta R.T.  0.022 min
Lab File:  0405_44.D
Acq:  6 Apr 2021  5:42 pm

Tgt Ion: 88 Resp:  83707

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 58 | 88.0 | 69.8 | 104.8 |
| 87 | 11.2 | 7.5 | 11.3 |

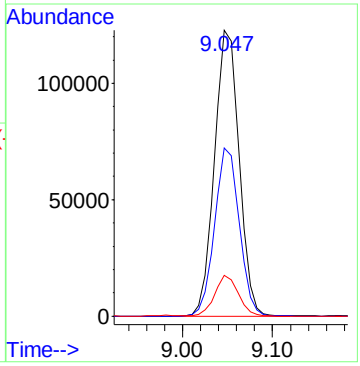


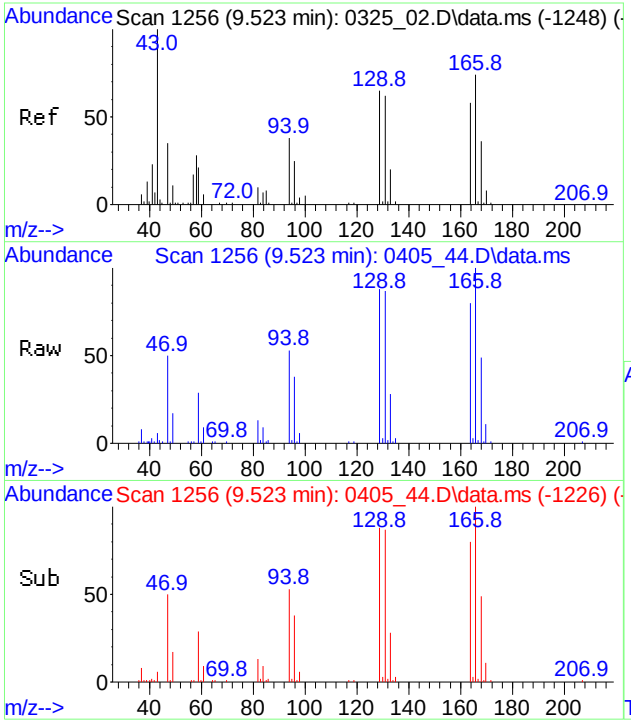



#48
Toluene
Conc: 8$ 2.882 ppbv
RT: 9.047 min Scan# 1190
Delta R.T. 0.015 min
Lab File: 0405_44.D
Acq: 6 Apr 2021 5:42 pm

Tgt Ion: 91 Resp: 232488

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 58.8 | 46.3 | 69.5 |
| 65 | 13.8 | 10.1 | 15.1 |

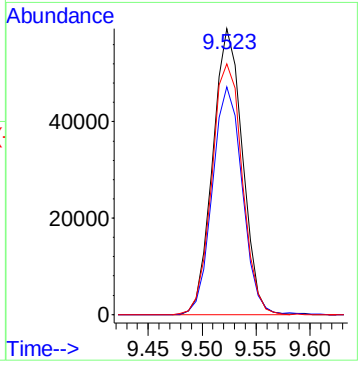


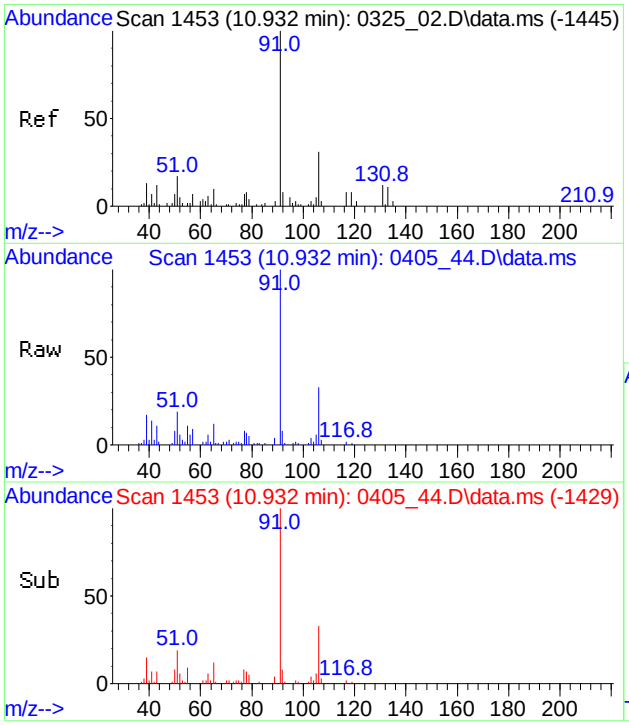




#52
Tetrachloroethene
Conc: 8$ 2.339 ppbv
RT: 9.523 min Scan# 1256
Delta R.T. 0.015 min
Lab File: 0405_44.D
Acq: 6 Apr 2021 5:42 pm

Tgt Ion:166 Resp: 112941

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 164 | 80.6 | 62.2 | 93.4 |
| 129 | 89.9 | 68.3 | 102.5 |

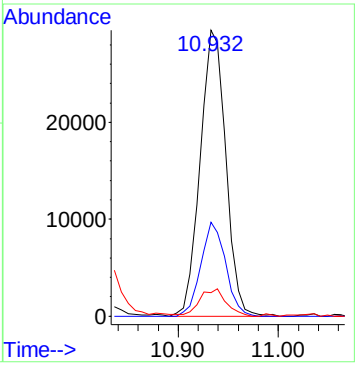


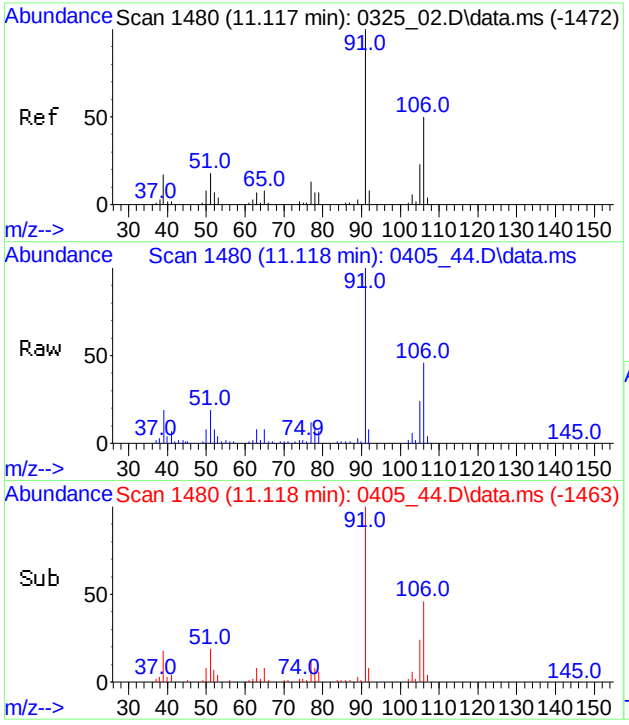



#56
Ethylbenzene
Conc: 8$ 0.455 ppbv
RT: 10.932 min Scan# 1453
Delta R.T. 0.014 min
Lab File: 0405_44.D
Acq: 6 Apr 2021 5:42 pm

Tgt Ion: 91 Resp: 52365

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 31.7 | 11.4 | 51.4 |
| 77 | 10.0 | 0.0 | 28.7 |

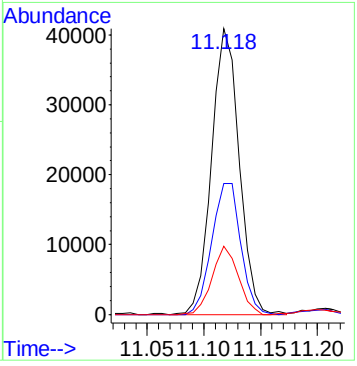


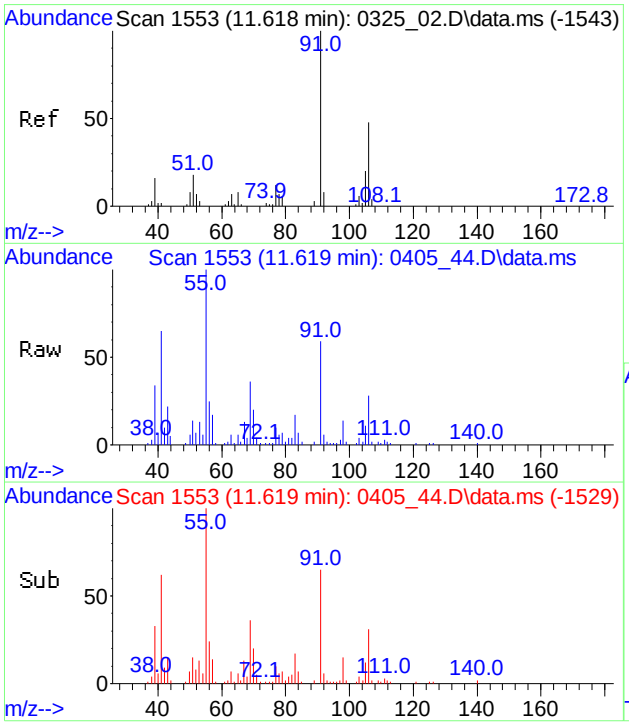




#57
m,p-Xylene
Conc: 8$ 0.796 ppbv
RT: 11.118 min Scan# 1480
Delta R.T. 0.014 min
Lab File: 0405_44.D
Acq: 6 Apr 2021 5:42 pm

Tgt Ion: 91 Resp: 68871

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 48.1 | 39.8 | 59.8 |
| 105 | 22.7 | 18.2 | 27.4 |

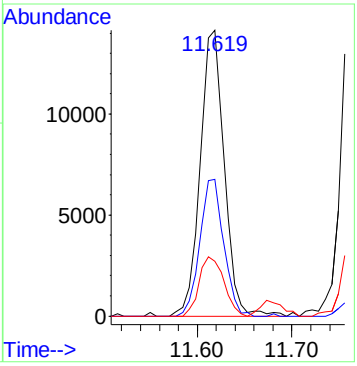


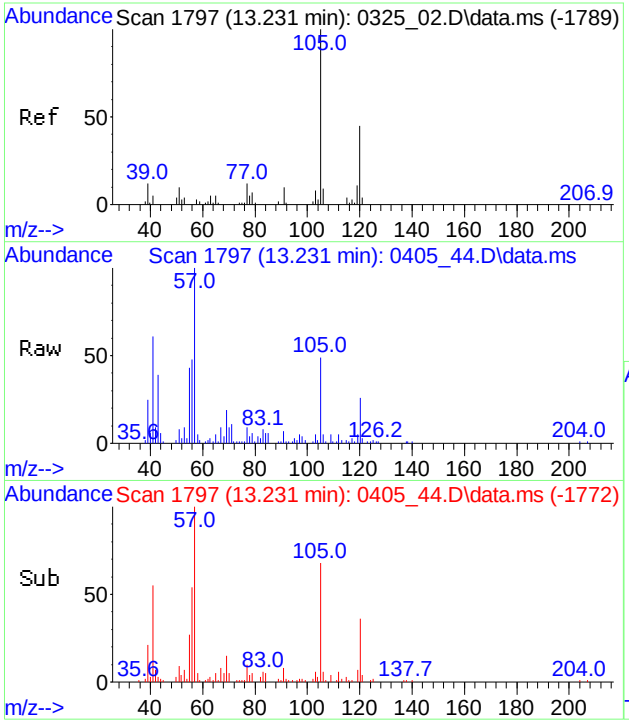



#61
o-Xylene
Conc: 8$ 0.289 ppbv
RT: 11.619 min Scan# 1553
Delta R.T. 0.015 min
Lab File: 0405_44.D
Acq: 6 Apr 2021 5:42 pm

Tgt Ion: 91 Resp: 25008

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 47.4 | 37.5 | 56.3 |
| 105 | 21.3 | 15.1 | 22.7 |

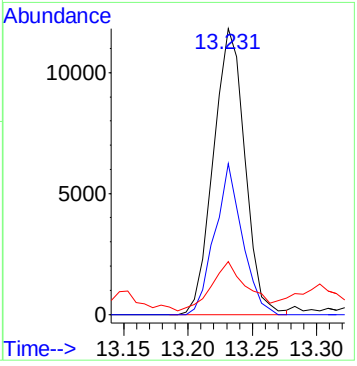


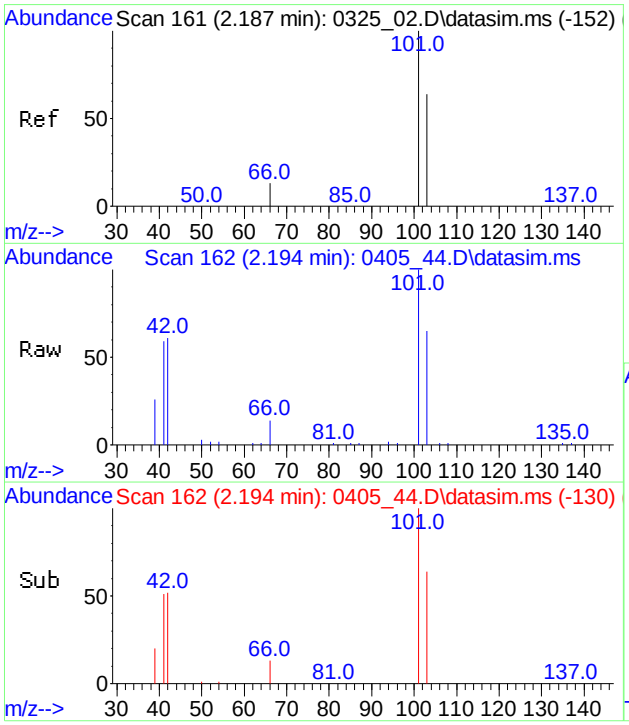




#68
1,2,4-Trimethylbenzene
Conc: 8$ 0.199 ppbv
RT: 13.231 min Scan# 1797
Delta R.T. 0.014 min
Lab File: 0405_44.D
Acq: 6 Apr 2021 5:42 pm

Tgt Ion:105 Resp: 19814

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 46.2 | 36.7 | 55.1 |
| 77 | 19.6 | 10.0 | 15.0# |

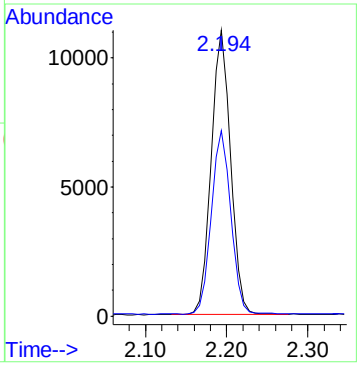


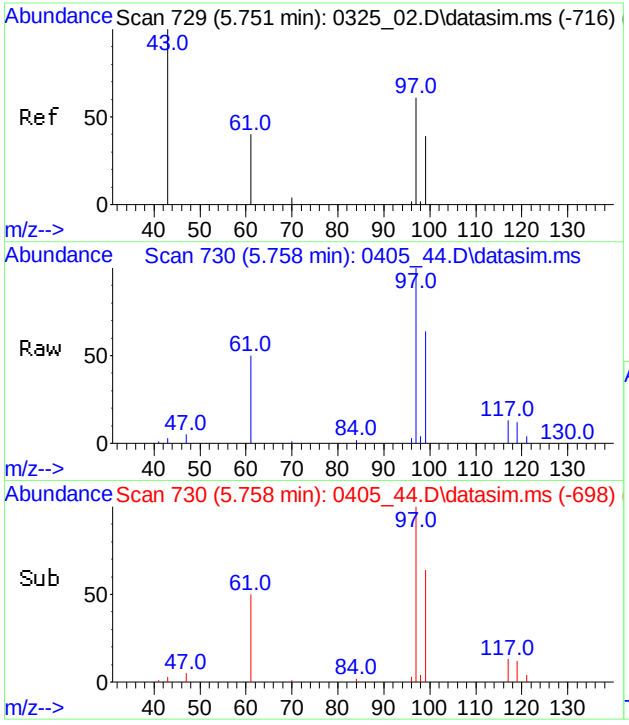



#84
Trichlorofluoromethane(sim)
Conc: 8$ 0.199 ppbv
RT: 2.194 min Scan# 162
Delta R.T. 0.021 min
Lab File: 0405_44.D
Acq: 6 Apr 2021 5:42 pm

Tgt Ion:101 Resp: 18248

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 64.7 | 51.9 | 77.9 |

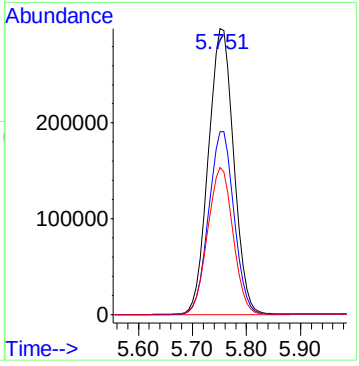


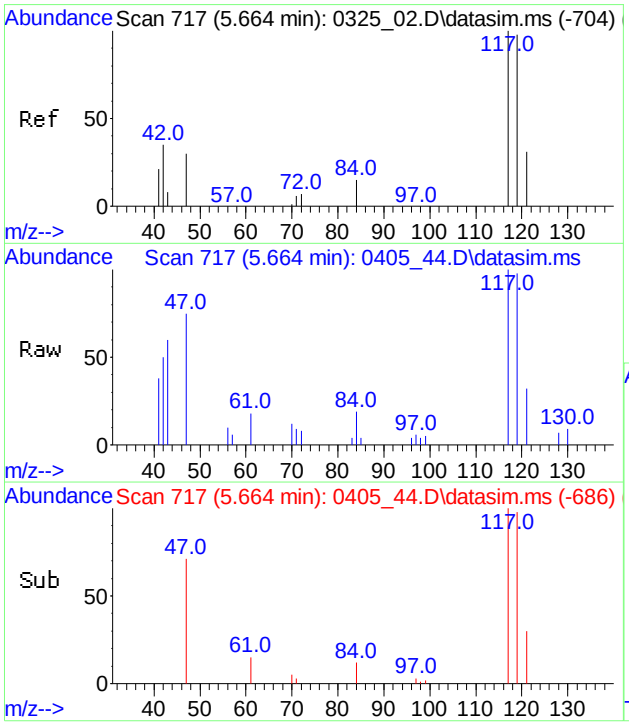




#85
1,1,1-Trichloroethane(sim)
Conc: 8$ 13.434 ppbv
RT: 5.755 min Scan# 730
Delta R.T. 0.029 min
Lab File: 0405_44.D
Acq: 6 Apr 2021 5:42 pm

Tgt Ion: 97 Resp: 914848

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 63.5 | 64.0 | 64.0# |
| 61 | 51.5 | 50.0 | 75.0 |

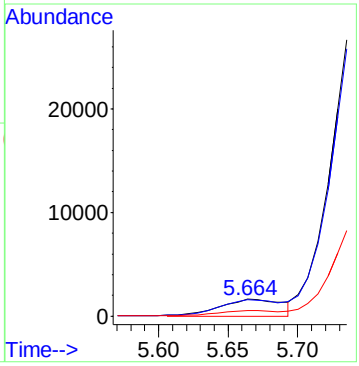


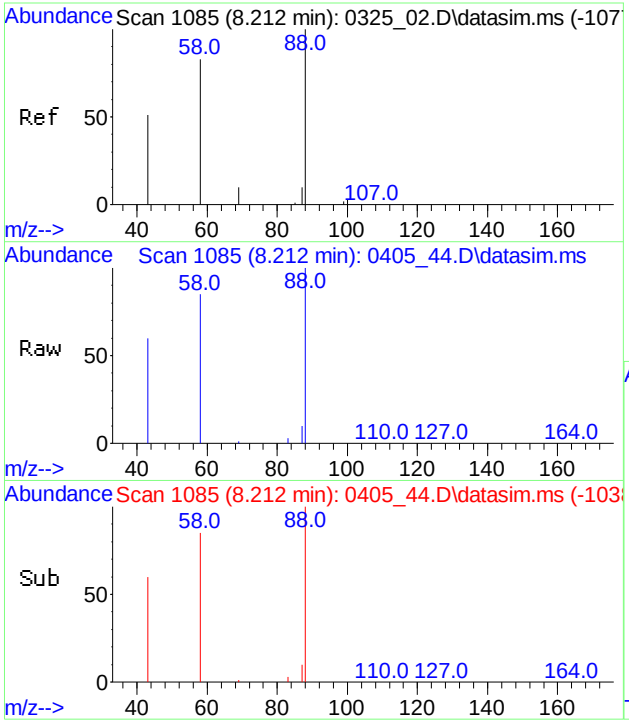



#87
Carbon Tetrachloride(sim)
Conc: 8$ 0.065 ppbv
RT: 5.664 min Scan# 717
Delta R.T. 0.025 min
Lab File: 0405_44.D
Acq: 6 Apr 2021 5:42 pm

Tgt Ion:117 Resp: 5093

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 2309.4 | 78.4 | 117.6# |
| 121 | 735.9 | 25.7 | 38.5# |

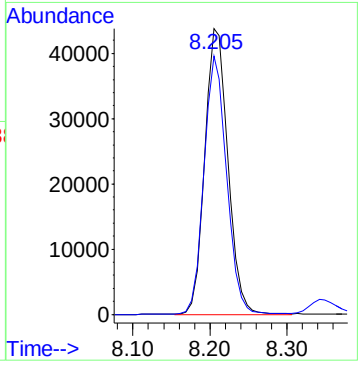


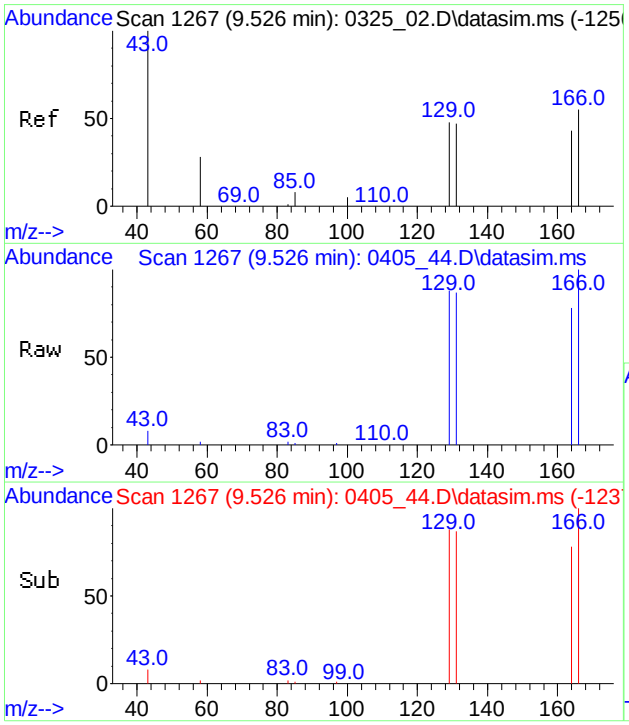




#99
1,4-Dioxane(sim)
Conc: 8$ 6.270 ppbv
RT: 8.209 min Scan# 1085
Delta R.T. 0.022 min
Lab File: 0405_44.D
Acq: 6 Apr 2021 5:42 pm

Tgt Ion: 88 Resp: 83707

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 58 | 88.0 | 83.8 | 90.8 |

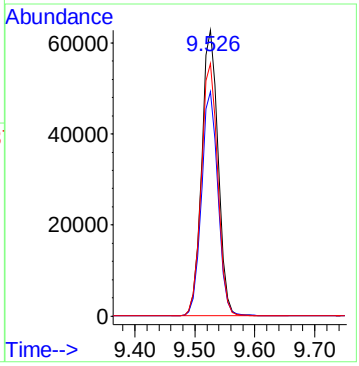


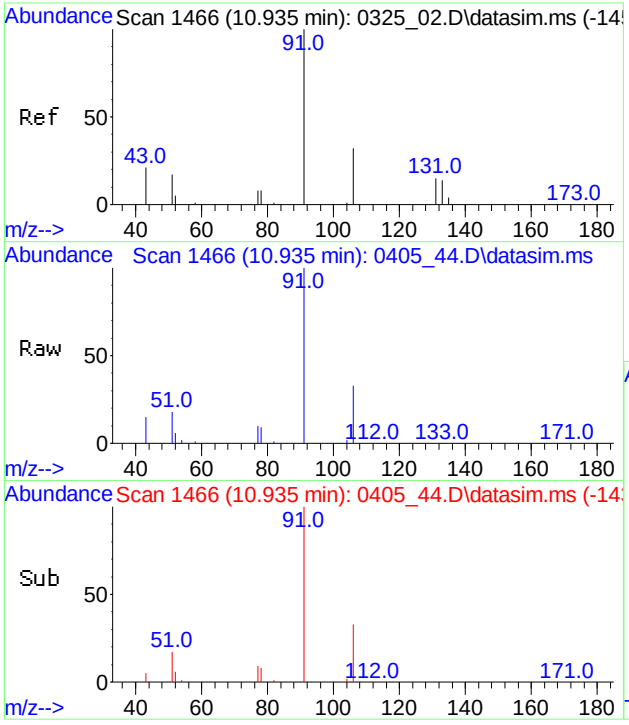



#104
Tetrachloroethene(sim)
Conc: 8$ 2.301 ppbv
RT: 9.526 min Scan# 1267
Delta R.T. 0.015 min
Lab File: 0405_44.D
Acq: 6 Apr 2021 5:42 pm

Tgt Ion:166 Resp: 119129

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 164 | 78.8 | 58.4 | 98.4 |
| 129 | 88.6 | 66.6 | 106.6 |

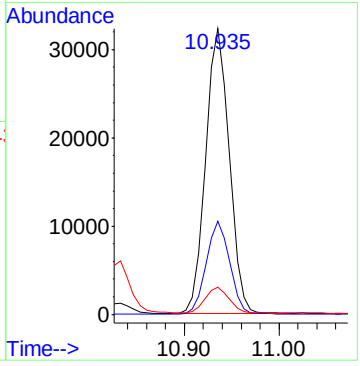


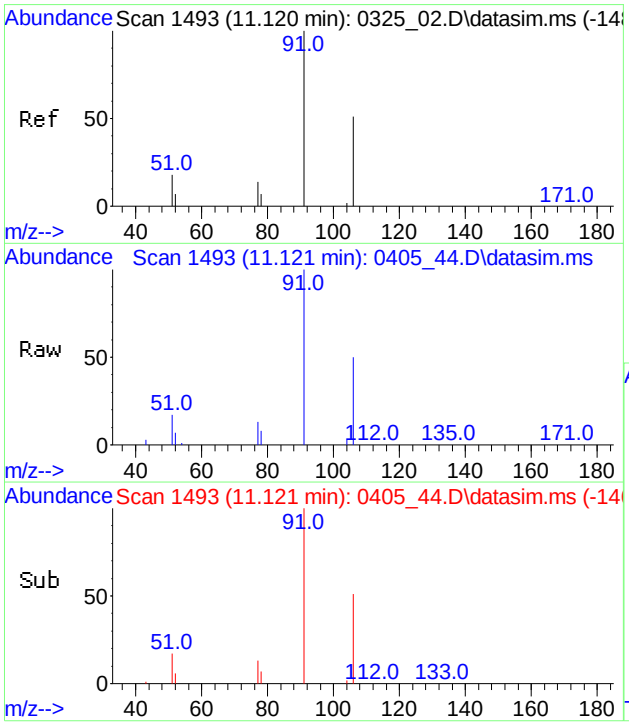




#108
Ethylbenzene(sim)
Conc: 8$ 0.445 ppb
RT: 10.935 min Scan# 1466
Delta R.T. 0.014 min
Lab File: 0405_44.D
Acq: 6 Apr 2021 5:42 pm

Tgt Ion: 91 Resp: 55813

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 32.4 | 25.8 | 38.8 |
| 77 | 9.2 | 7.0 | 10.6 |

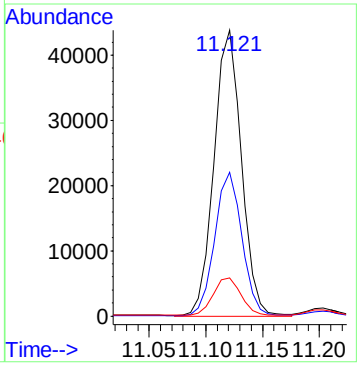


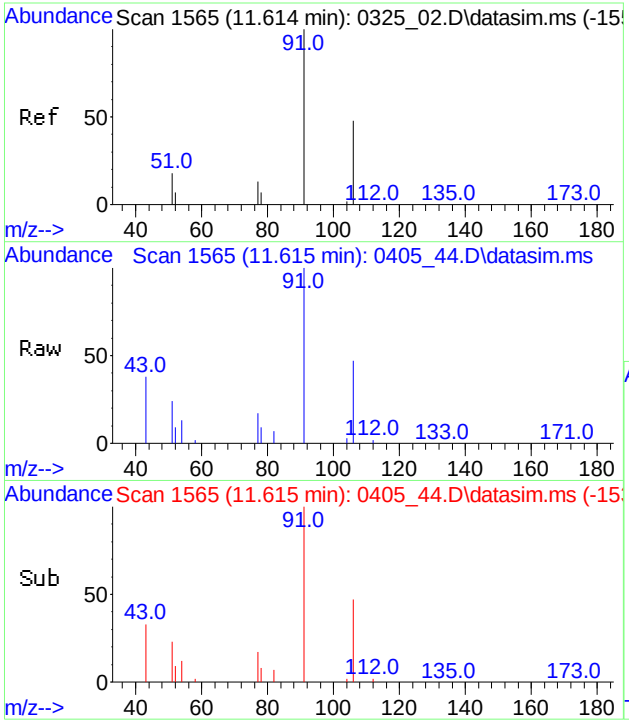



#109
m,p-Xylene(sim)
Conc: 8$ 0.807 ppbv
RT: 11.118 min Scan# 1493
Delta R.T. 0.014 min
Lab File: 0405_44.D
Acq: 6 Apr 2021 5:42 pm

Tgt Ion: 91 Resp: 68871

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 48.1 | 44.8 | 54.8 |
| 77 | 13.1 | 10.5 | 15.7 |

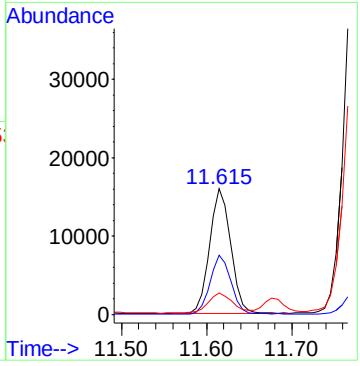



#110
o-Xylene(sim)
Conc: 8$ 0.307 ppb
RT: 11.615 min Scan# 1565
Delta R.T. 0.015 min
Lab File: 0405_44.D
Acq: 6 Apr 2021 5:42 pm

Tgt Ion: 91 Resp: 27441

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 46.2 | 37.6 | 56.4 |
| 77 | 18.5 | 9.8 | 14.8# |



1

AIR ANALYSIS DATA SHEET

CLIENT ID: SS-5 5X

Client: GC-ENV Lab: Phoenix Env. Labs

SDG No.: GCH92051 Lab Sample ID: CH92053 5X

Canister: 13561 Lab File ID: 0405_21.D

Instrument: CHEM20 Column: RTX-1 60M Date Received: 04/05/21

Purge Volume 200 (cc) Date Analyzed: 04/05/21

Matrix: AIR Dilution Factor: 5

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

| CAS NO. | COMPOUND | CONC. | Q | MDL | PQL | R |
|---|---|---|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 1.01 | U | 1.01 | 1.01 | |
| 64-17-5 | Ethanol | 452 | EDS | 2.66 | 2.66 | r |
| 67-64-1 | Acetone | 25.9 | X | 2.11 | 2.11 | |
| 67-63-0 | Isopropylalcohol | 21.1 | X | 2.04 | 2.04 | |
| 78-93-3 | Methyl Ethyl Ketone | 1.70 | U | 1.70 | 1.70 | |
| 71-55-6 | 1,1,1-Trichloroethane | 15.8 | X | 0.917 | 0.917 | |
| 123-91-1 | 1,4-Dioxane | 5.54 | X | 1.39 | 1.39 | |
| 108-88-3 | Toluene | 2.86 | X | 1.33 | 1.33 | |
| 127-18-4 | Tetrachloroethene | 2.51 | X | 0.184 | 0.184 | |
| 100-41-4 | Ethylbenzene | 1.15 | U | 1.15 | 1.15 | |
| 95-47-6 | o-Xylene | 1.15 | U | 1.15 | 1.15 | |
| 75-69-4 | Trichlorofluoromethane(sim) | 0.890 | U | 0.890 | 0.890 | |
| 56-23-5 | Carbon Tetrachloride(sim) | 0.159 | U | 0.159 | 0.159 | |
| 179601-23-1 | m,p-Xylene(sim) | 1.15 | U | 1.15 | 1.15 | |

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:\AIR2021\CHEM20\04APR\05\
Data File : 0405_21.D
Acq On : 5 Apr 2021 10:05 pm
Operator :
Client ID : SS-5 5X
Lab ID : CH92053 5X
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Apr 06 08:26:36 2021
Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0329.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Mar 29 13:12:48 2021
Response via : Initial Calibration

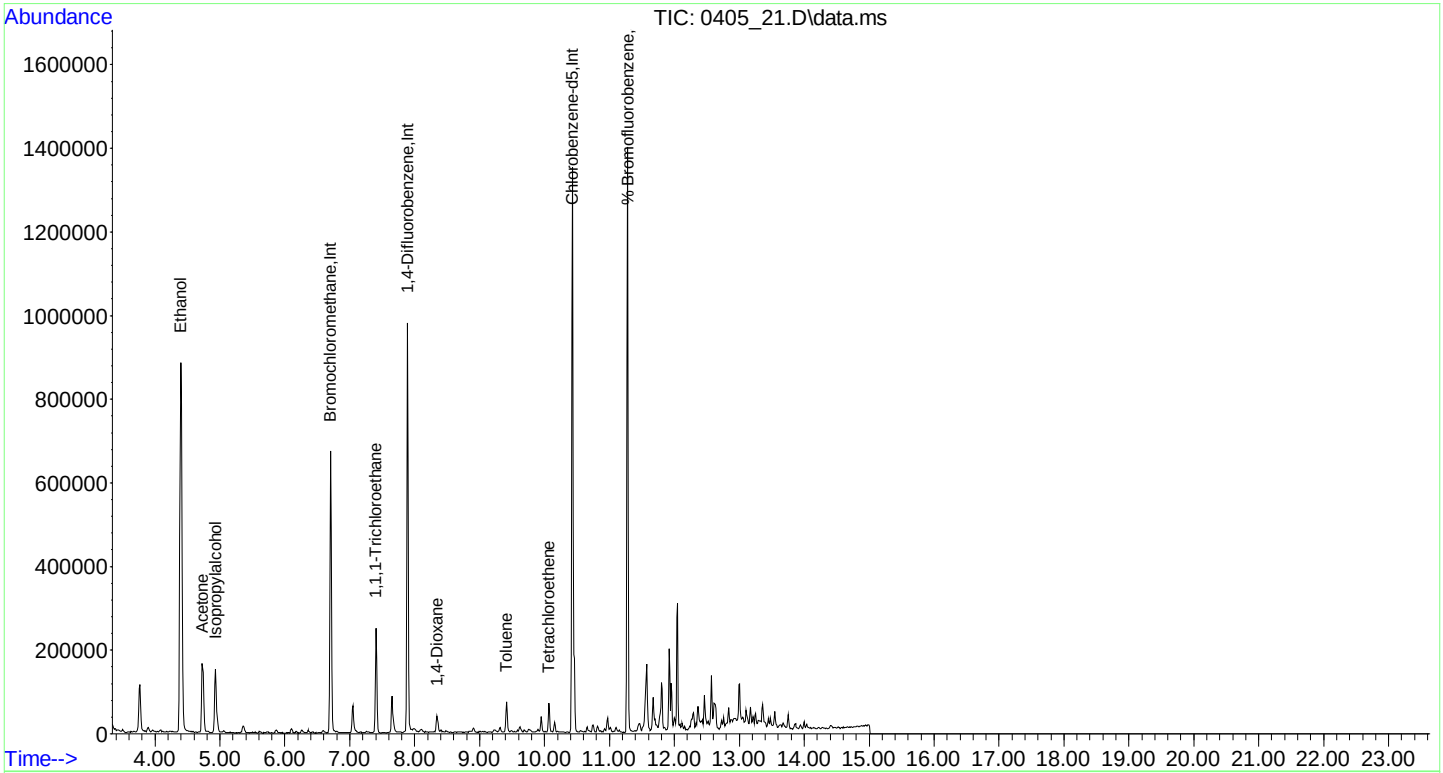
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Bromochloromethane | 6.704 | 130 | 137857 | 10.000 | ng | | 0.00 |
| 37) 1,4-Difluorobenzene | 7.889 | 114 | 524217 | 10.000 | ng | | 0.00 |
| 54) Chlorobenzene-d5 | 10.430 | 82 | 270064 | 10.000 | ng | | 0.00 |
| 81) Bromochloromethane(sim) | 6.710 | 130 | 159354 | 10.000 | ng | # | 0.00 |
| 96) 1,4-Difluorobenzene(sim) | 7.889 | 114 | 524217 | 10.000 | ng | | 0.00 |
| 106) Chlorobenzene-d5(sim) | 10.430 | 82 | 270064 | 10.000 | ng | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 63) % Bromofluorobenzene | 11.281 | 95 | 312439 | 9.816 | ppbv | | 0.00 |
| Spiked Amount 10.000 | Range 70 - 130 | | Recovery = | 98.20% | | | |
| Target Compounds | | | | | | | Qvalue |
| 11) Ethanol | 4.394 | 45 | 1050748 | 90.320 | ppbv# | | 75 |
| 12) Acetone | 4.728 | 43 | 220671 | 5.190 | ppbv# | | 88 |
| 14) Isopropylalcohol | 4.933 | 45 | 220249 | 4.227 | ppbv# | | 89 |
| 33) 1,1,1-Trichloroethane | 7.402 | 97 | 119713 | 3.161 | ppbv | | 95 |
| 42) 1,4-Dioxane | 8.345 | 88 | 10292 | 1.108 | ppbv# | | 55 |
| 49) Toluene | 9.415 | 91 | 28647 | 0.573 | ppbv | | 96 |
| 53) Tetrachloroethene | 10.065 | 166 | 12635 | 0.503 | ppbv# | | 83 |
| 87] 1,1,1-Trichloroethane(... | 7.407 | 97 | 133163 | 3.149 | ppbv# | | 97 |
| 100] 1,4-Dioxane(sim) | 8.345 | 88 | 10292 | 1.091 | ppbv# | | 66 |
| 105] Tetrachloroethene(sim) | 10.070 | 166 | 15253 | 0.510 | ppbv | | 97 |

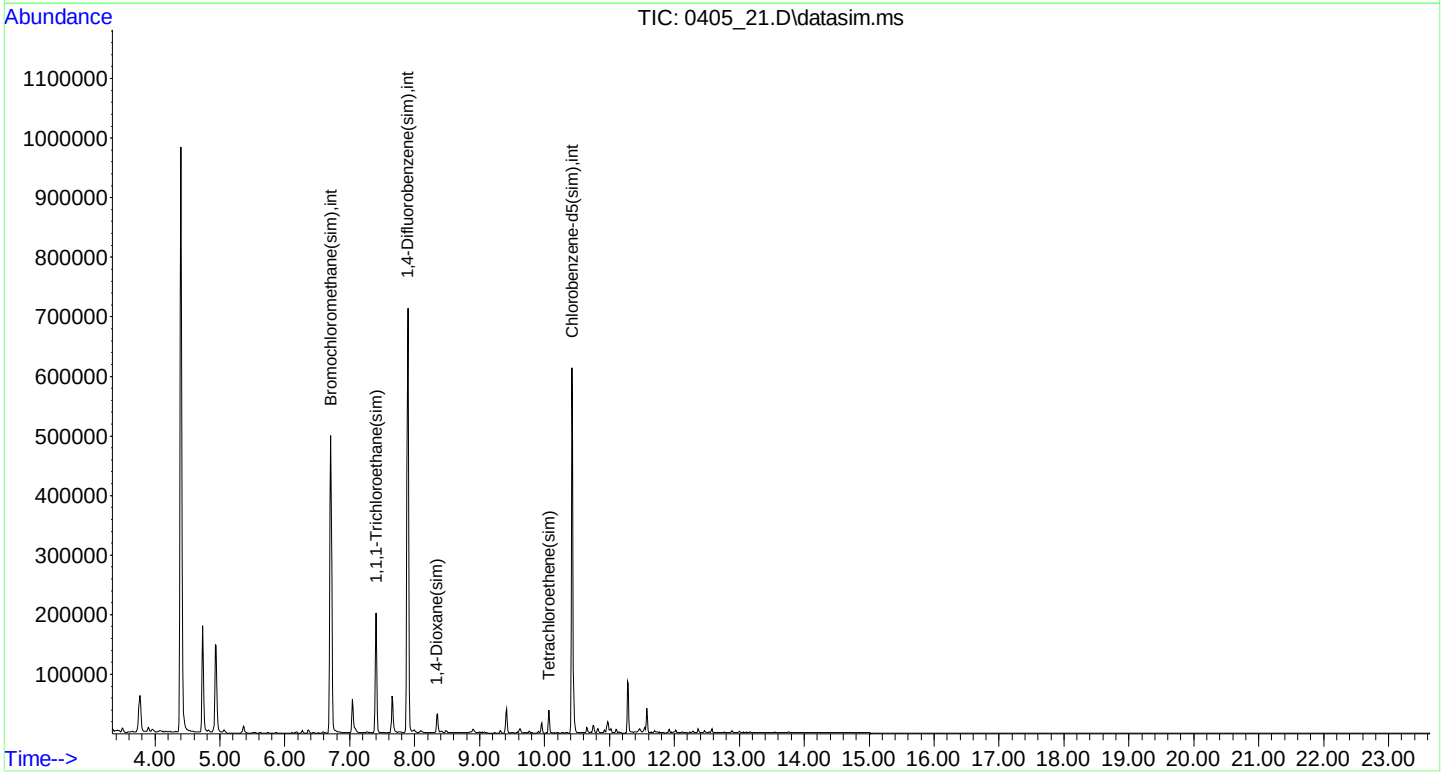
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

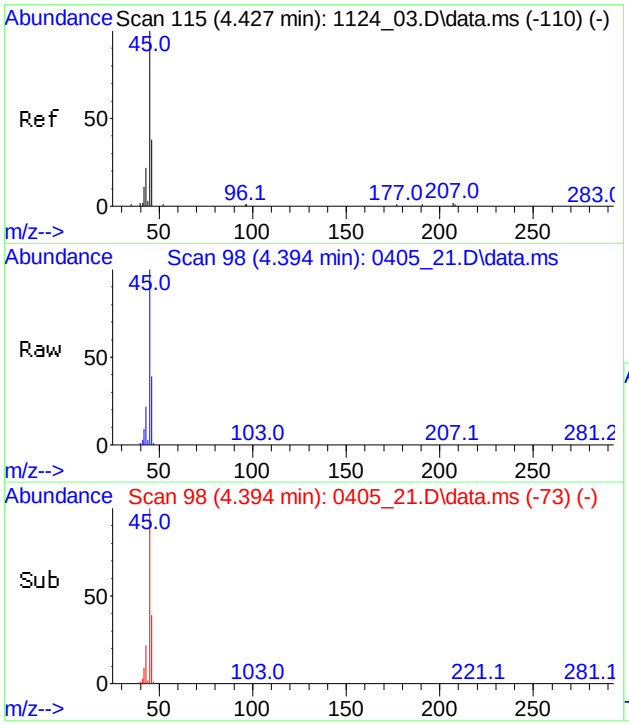
Quantitation Report (QT Reviewed)

Data Path : H:\AIR2021\CHEM20\04APR\05\
Data File : 0405_21.D
Acq On : 5 Apr 2021 10:05 pm
Operator :
Client ID : SS-5 5X
Lab ID : CH92053 5X
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Apr 06 08:26:36 2021
Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0329.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Mar 29 13:12:48 2021
Response via : Initial Calibration



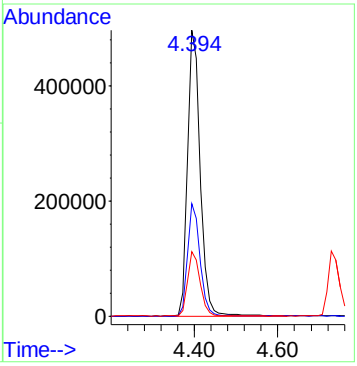



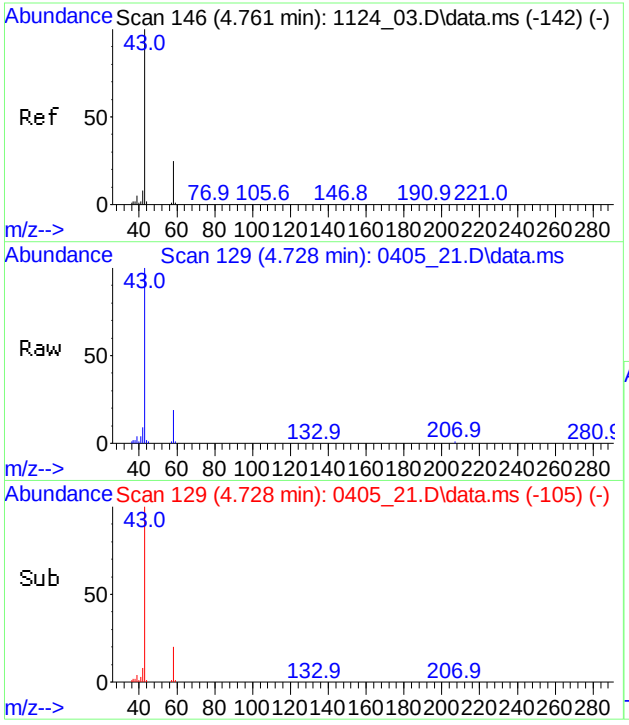



#11
Ethanol
Conc: 8$ 90.320 ppbv
RT: 4.394 min Scan# 98
Delta R.T. -0.032 min
Lab File: 0405_21.D
Acq: 5 Apr 2021 10:05 pm

Tgt Ion: 45 Resp: 1050748

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 38.7 | 0.0 | 0.0# |
| 43 | 22.5 | 10.0 | 15.0# |

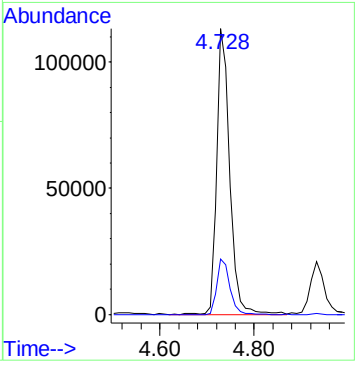


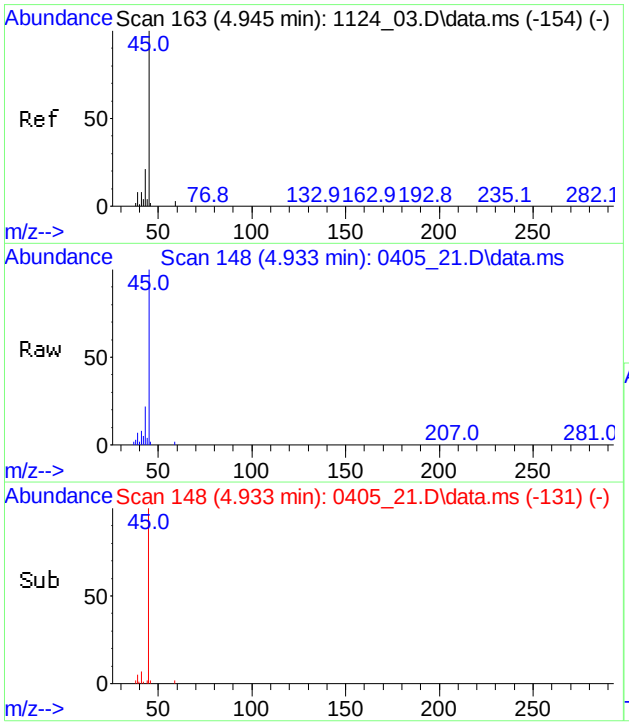




#12
Acetone
Conc: 8$ 5.190 ppbv
RT: 4.728 min Scan# 129
Delta R.T. -0.043 min
Lab File: 0405_21.D
Acq: 5 Apr 2021 10:05 pm

Tgt Ion: 43 Resp: 220671

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 19.4 | 20.4 | 30.6# |

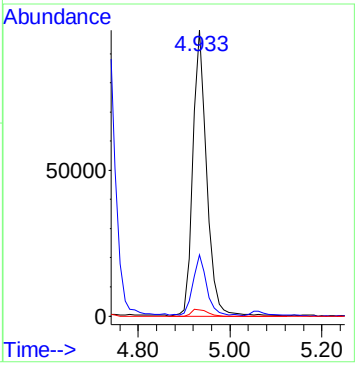


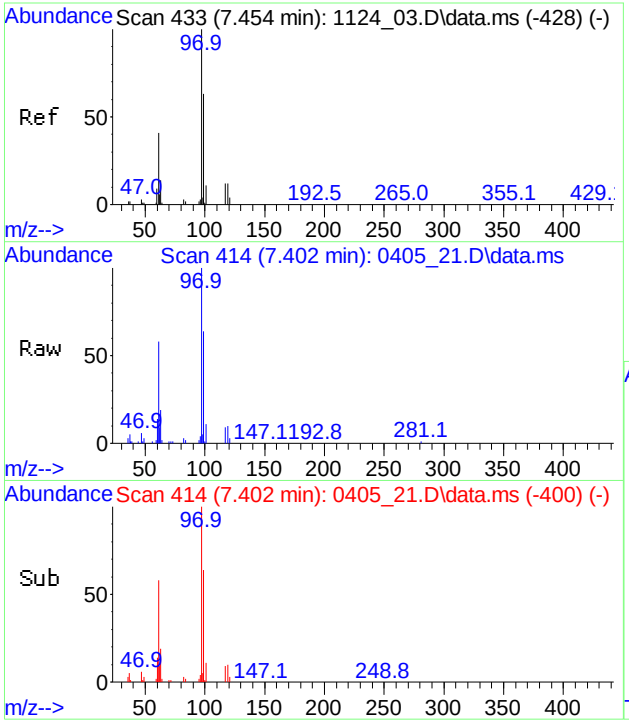



#14
Isopropylalcohol
Conc: 8$ 4.227 ppbv
RT: 4.933 min Scan# 148
Delta R.T. -0.022 min
Lab File: 0405_21.D
Acq: 5 Apr 2021 10:05 pm

Tgt Ion: 45 Resp: 220249

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 19.5 | 20.6 | 31.0# |
| 59 | 2.4 | 2.1 | 3.1 |

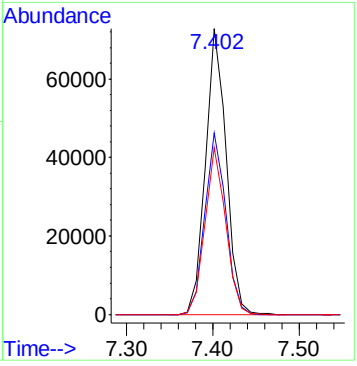


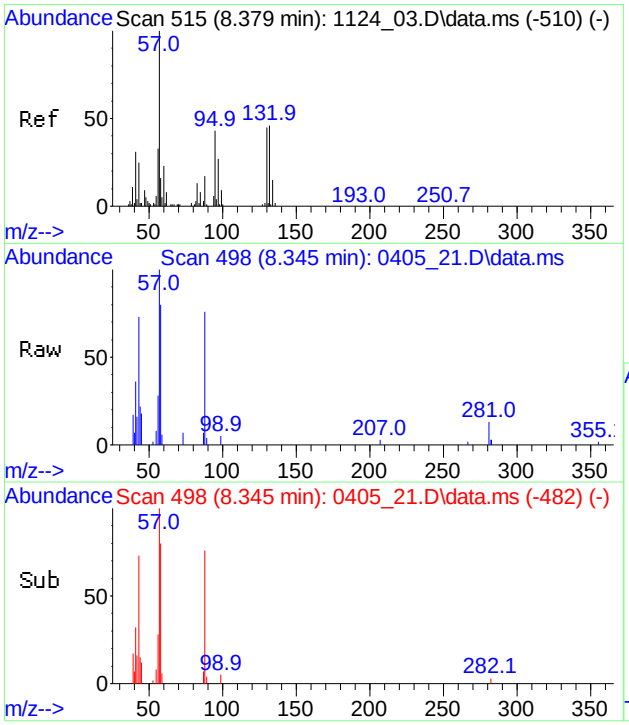




#33
1,1,1-Trichloroethane
Conc: 8$ 3.161 ppbv
RT: 7.402 min Scan# 414
Delta R.T. -0.000 min
Lab File: 0405_21.D
Acq: 5 Apr 2021 10:05 pm

Tgt Ion: 97 Resp: 119713

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 64.6 | 53.8 | 80.8 |
| 61 | 58.9 | 51.4 | 77.0 |

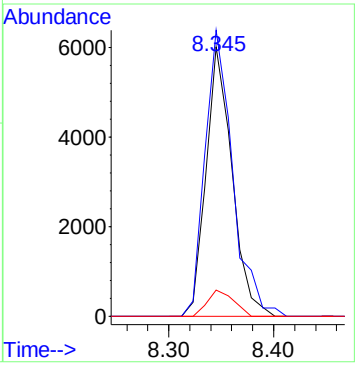


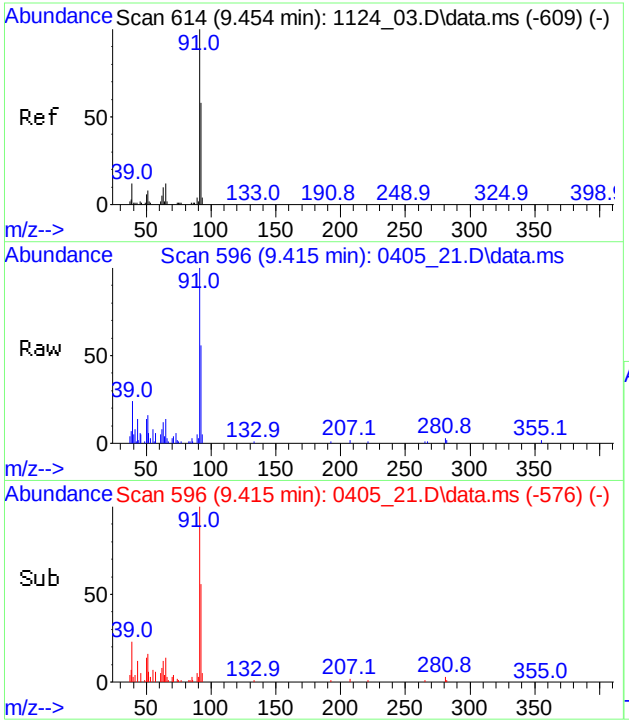



#42
1,4-Dioxane
Conc: 8$ 1.108 ppbv
RT: 8.345 min Scan# 498
Delta R.T. -0.023 min
Lab File: 0405_21.D
Acq: 5 Apr 2021 10:05 pm

Tgt Ion: 88 Resp: 10292

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 58 | 113.4 | 145.3 | 217.9# |
| 87 | 9.7 | 8.6 | 12.8 |

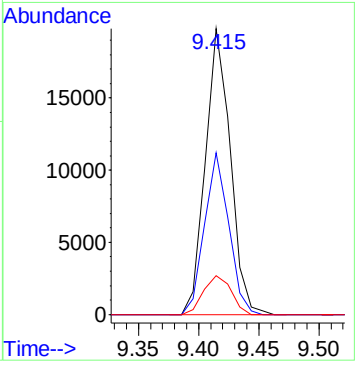


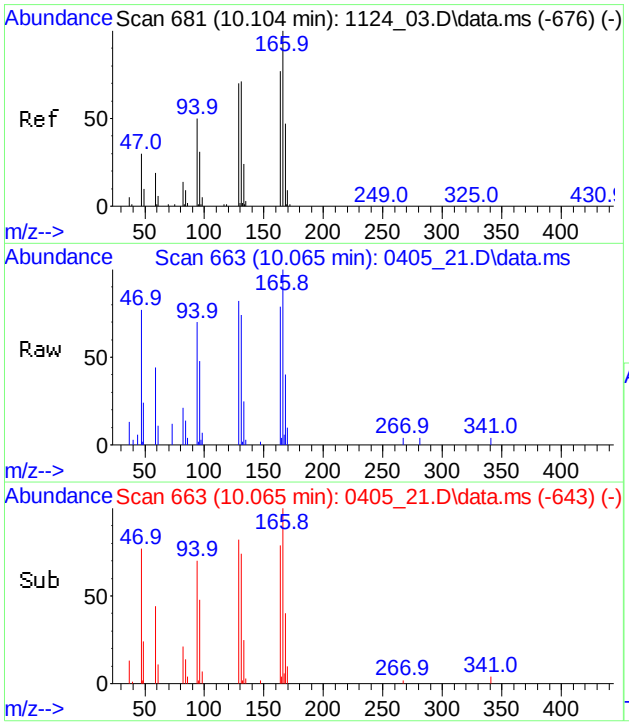




#49
Toluene
Conc: 8$ 0.573 ppbv
RT: 9.415 min Scan# 596
Delta R.T. -0.009 min
Lab File: 0405_21.D
Acq: 5 Apr 2021 10:05 pm

Tgt Ion: 91 Resp: 28647

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 55.0 | 46.8 | 70.2 |
| 65 | 15.0 | 11.5 | 17.3 |

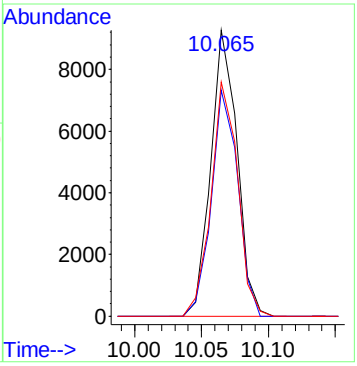


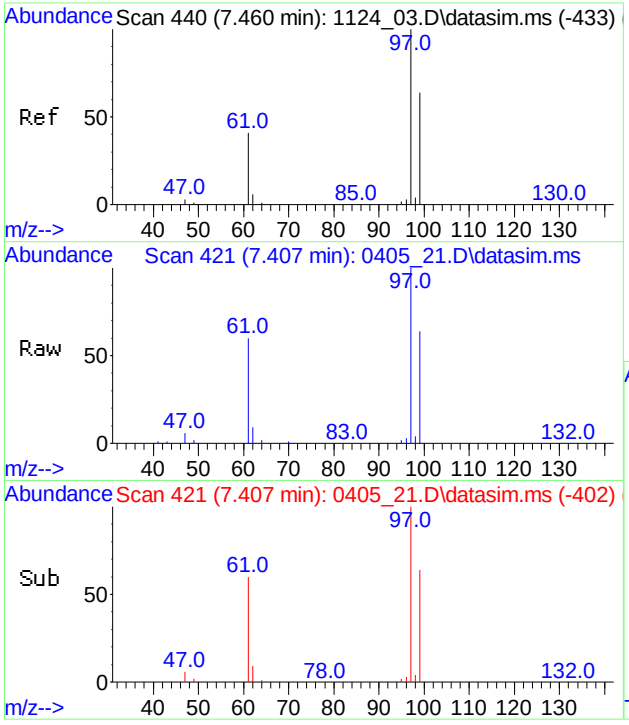



#53
Tetrachloroethene
Conc: 8$ 0.503 ppbv
RT: 10.065 min Scan# 663
Delta R.T. -0.010 min
Lab File: 0405_21.D
Acq: 5 Apr 2021 10:05 pm

Tgt Ion:166 Resp: 12635

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 164 | 79.3 | 52.6 | 78.8# |
| 129 | 82.6 | 55.5 | 83.3 |

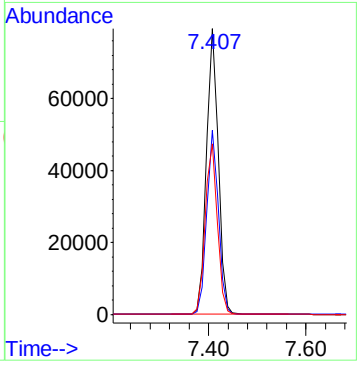


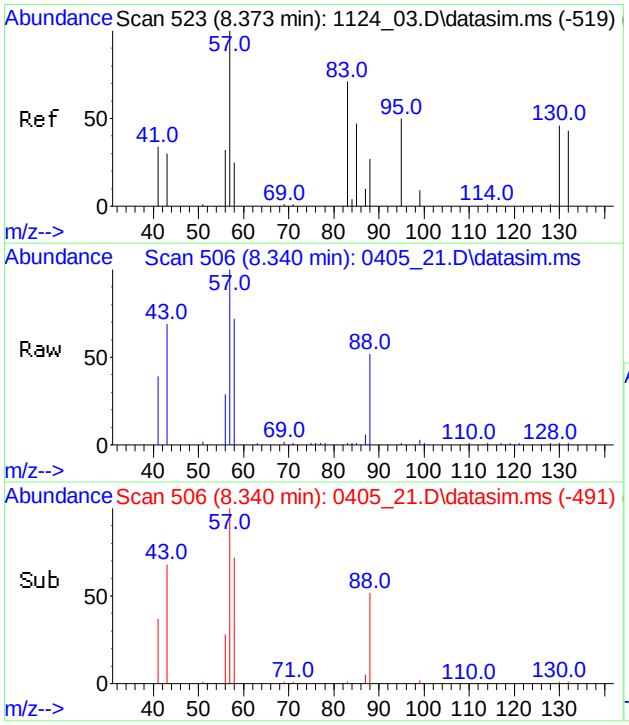




#87
1,1,1-Trichloroethane(sim)
Conc: 8$ 3.149 ppbv
RT: 7.407 min Scan# 421
Delta R.T. 0.000 min
Lab File: 0405_21.D
Acq: 5 Apr 2021 10:05 pm

Tgt Ion: 97 Resp: 133163

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 63.7 | 62.4 | 62.4# |
| 61 | 61.0 | 46.0 | 69.0 |

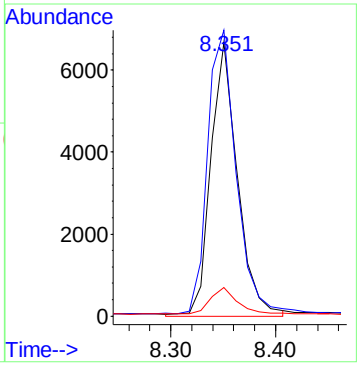


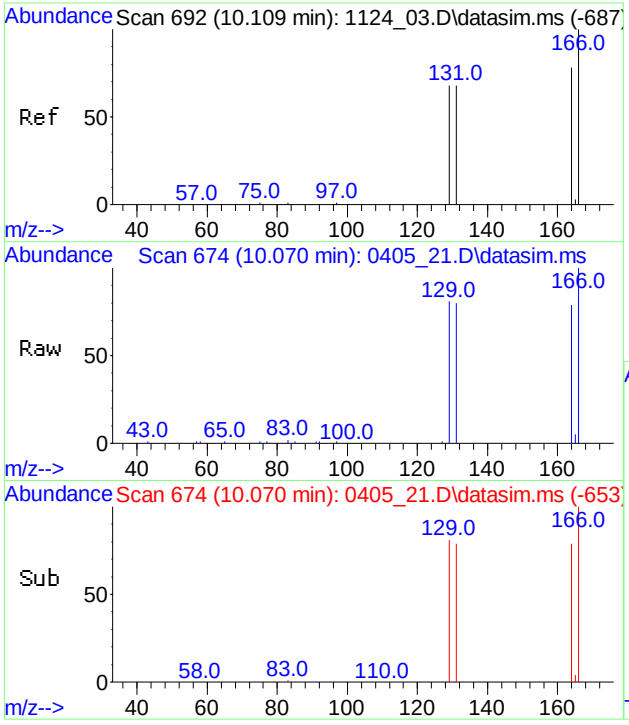



#100
1,4-Dioxane(sim)
Conc: 8$ 1.091 ppbv
RT: 8.345 min Scan# 506
Delta R.T. -0.023 min
Lab File: 0405_21.D
Acq: 5 Apr 2021 10:05 pm

Tgt Ion: 88 Resp: 10292

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 58 | 113.4 | 128.4 | 192.6# |
| 87 | 9.7 | 8.6 | 12.8 |

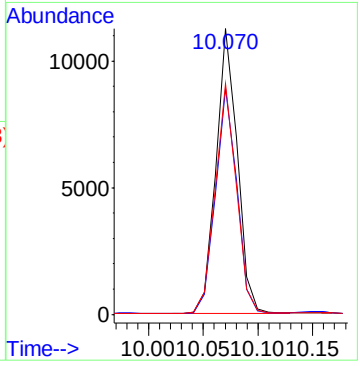



#105
Tetrachloroethene(sim)
Conc: 8$ 0.510 ppbv
RT: 10.070 min Scan# 674
Delta R.T. 0.000 min
Lab File: 0405_21.D
Acq: 5 Apr 2021 10:05 pm

Tgt Ion:166 Resp: 15253

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 164 | 79.4 | 58.1 | 98.1 |
| 129 | 80.4 | 56.6 | 96.6 |



1

AIR ANALYSIS DATA SHEET

CLIENT ID: SS-10 (5')

Client: GC-ENV Lab: Phoenix Env. Labs

SDG No.: GCH92051 Lab Sample ID: CH92054

Canister: 12864 Lab File ID: 0405_45.D

Instrument: CHEM24 Column: RTX-VMS Date Received: 04/05/21

Purge Volume 200 (cc) Date Analyzed: 04/06/21

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

| CAS NO. | COMPOUND | CONC. | Q | MDL | PQL | R |
|---|---|---|---|---|---|---|
| 115-07-1 | Propylene | 3.12 | | 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 | 10.3 | S | 0.531 | 0.531 | r |
| 67-64-1 | Acetone | 17.7 | S | 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 | 2.99 | | 0.339 | 0.339 | r |
| 110-54-3 | Hexane | 0.387 | S | 0.284 | 0.284 | r |
| 141-78-6 | Ethyl acetate | 0.278 | U | 0.278 | 0.278 | r |
| 109-99-9 | Tetrahydrofuran | 1.97 | | 0.339 | 0.339 | r |
| 71-43-2 | Benzene | 0.461 | | 0.313 | 0.313 | r |
| 110-82-7 | Cyclohexane | 0.291 | U | 0.291 | 0.291 | r |
| 142-82-5 | Heptane | 0.408 | | 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 | 3.47 | | 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 | 0.609 | | 0.230 | 0.230 | r |
| 179601-23-1 | m,p-Xylene | 0.834 | | 0.230 | 0.230 | r |
| 100-42-5 | Styrene | 0.599 | | 0.235 | 0.235 | r |
| 95-47-6 | o-Xylene | 0.278 | | 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: SS-10 (5')

Client: GC-ENV Lab: Phoenix Env. Labs

SDG No.: GCH92051 Lab Sample ID: CH92054

Canister: 12864 Lab File ID: 0405_45.D

Instrument: CHEM24 Column: RTX-VMS Date Received: 04/05/21

Purge Volume 200 (cc) Date Analyzed: 04/06/21

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) | 0.050 | | 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) | 0.221 | 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) | 0.082 | | 0.037 | 0.037 | r |
| 75-25-2 | Bromoform(sim) | 0.097 | U | 0.097 | 0.097 | r |
| 630-20-6 | 1,1,1,2-Tetrachloroethane(sim) | 0.146 | U | 0.146 | 0.146 | r |
| 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 |
| | | | | | | |
| | | | | | | |
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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:\AIR2021\CHEM24\04APR\05\
Data File : 0405_45.D
Acq On : 6 Apr 2021 6:20 pm
Operator : Keith
Client ID : SS-10 (5')
Lab ID : CH92054
ALS Vial : 43 Sample Multiplier: 1

Quant Time: Apr 07 08:18:49 2021
Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 26 09:02:26 2021
Response via : Initial Calibration

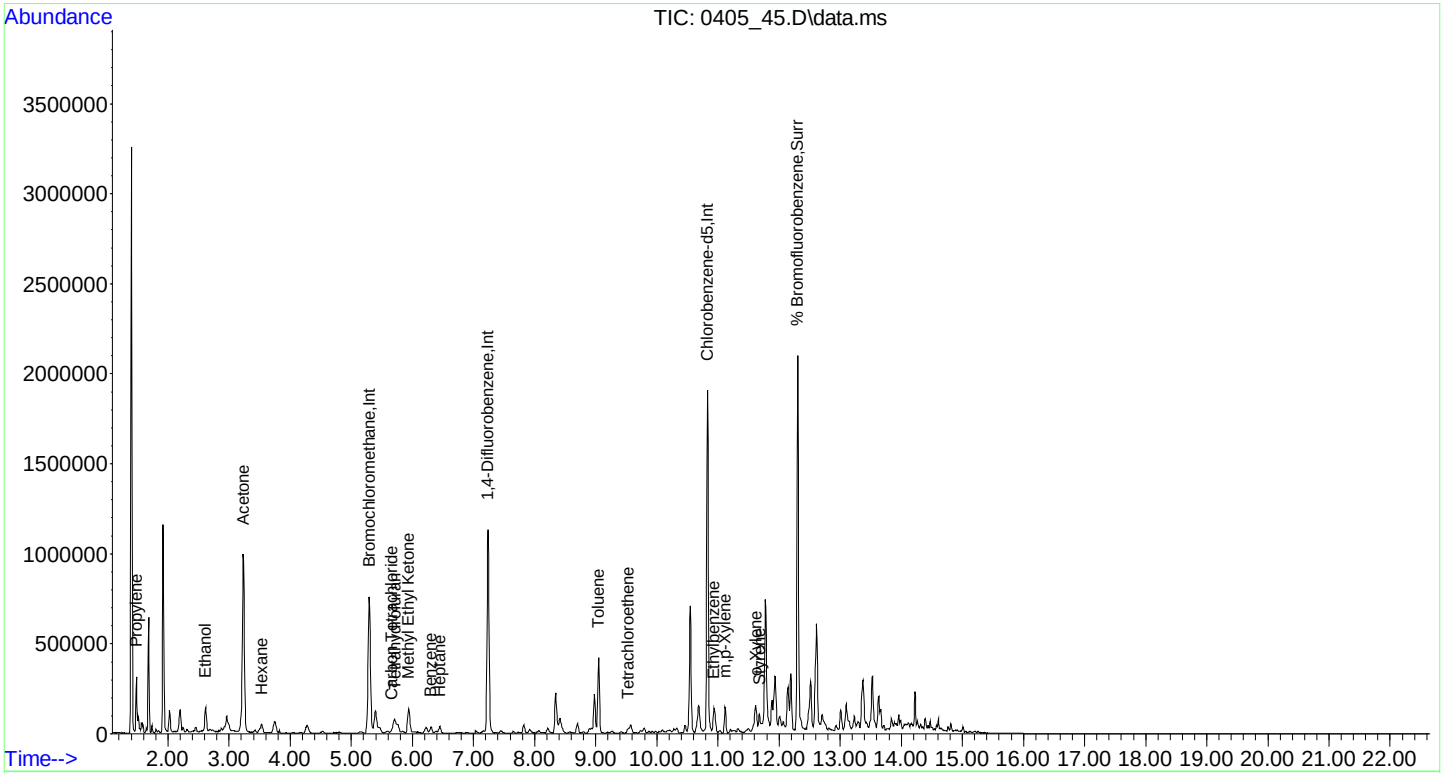
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Bromochloromethane | 5.293 | 130 | 317245 | 10.000 | ng | | 0.03 |
| 36) 1,4-Difluorobenzene | 7.238 | 114 | 1010207 | 10.000 | ng | | 0.01 |
| 53) Chlorobenzene-d5 | 10.829 | 82 | 463502 | 10.000 | ng | | 0.01 |
| 80) Bromochloromethane(sim) | 5.296 | 130 | 327704 | 10.000 | ng | # | 0.03 |
| 95) 1,4-Difluorobenzene(sim) | 7.238 | 114 | 1010207 | 10.000 | ng | | 0.01 |
| 105) Chlorobenzene-d5(sim) | 10.829 | 82 | 463502 | 10.000 | ng | | 0.01 |
| System Monitoring Compounds | | | | | | | |
| 62) % Bromofluorobenzene | 12.303 | 95 | 628921 | 9.783 | ppbv | | 0.00 |
| Spiked Amount 10.000 | Range 70 - 130 | | Recovery = | 97.80% | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) Propylene | 1.485 | 41 | 98535 | 3.120 | ppbv | | 93 |
| 10) Ethanol | 2.615 | 45 | 144741 | 10.269 | ppbv# | | 94 |
| 12) Acetone | 3.231 | 43 | 1443540 | 17.701 | ppbv | | 96 |
| 25) Methyl Ethyl Ketone | 5.935 | 43 | 251546 | 2.991 | ppbv | | 99 |
| 27) Hexane | 3.532 | 57 | 21927 | 0.387 | ppbv# | | 80 |
| 30) Tetrahydrofuran | 5.712 | 41 | 54836 | 1.972 | ppbv# | | 90 |
| 33) Benzene | 6.300 | 78 | 30375 | 0.461 | ppbv | | 93 |
| 34) Carbon Tetrachloride | 5.661 | 117 | 3970 | 0.052 | ppbv | | 95 |
| 43) Heptane | 6.451 | 43 | 29430 | 0.408 | ppbv# | | 95 |
| 48) Toluene | 9.046 | 91 | 285804 | 3.472 | ppbv | | 100 |
| 52) Tetrachloroethene | 9.523 | 166 | 4082 | 0.083 | ppbv | | 98 |
| 56) Ethylbenzene | 10.932 | 91 | 70861 | 0.609 | ppbv | | 99 |
| 57) m,p-Xylene | 11.117 | 91 | 72963 | 0.834 | ppbv | | 100 |
| 59) Styrene | 11.680 | 104 | 37575 | 0.599 | ppbv | | 99 |
| 60) 1,1,2,2-Tetrachloroethane | 12.588 | 83 | 11011 | 0.145 | ppbv# | | 1 |
| 61) o-Xylene | 11.618 | 91 | 24274 | 0.278 | ppbv | | 98 |
| 86] Benzene(sim) | 6.303 | 78 | 32591 | 0.427 | ppbv | | 98 |
| 87] Carbon Tetrachloride(sim) | 5.661 | 117 | 3970 | 0.050 | ppbv | | 90 |
| 104] Tetrachloroethene(sim) | 9.525 | 166 | 4348 | 0.082 | ppbv | | 97 |
| 108] Ethylbenzene(sim) | 10.935 | 91 | 75750 | 0.598 | ppb | | 99 |
| 109] m,p-Xylene(sim) | 11.117 | 91 | 72963 | 0.845 | ppbv | | 99 |
| 110] o-Xylene(sim) | 11.614 | 91 | 25914 | 0.287 | ppb # | | 95 |

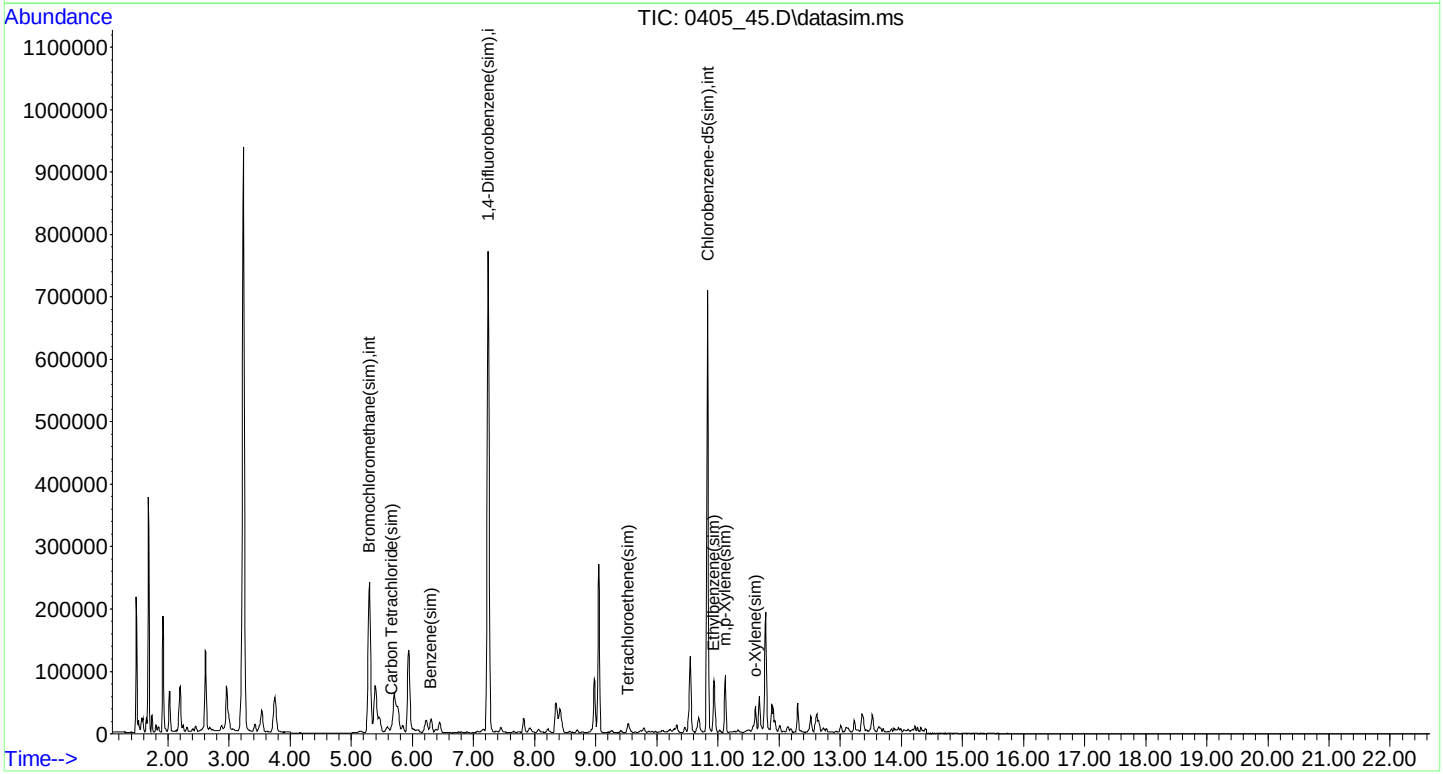
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

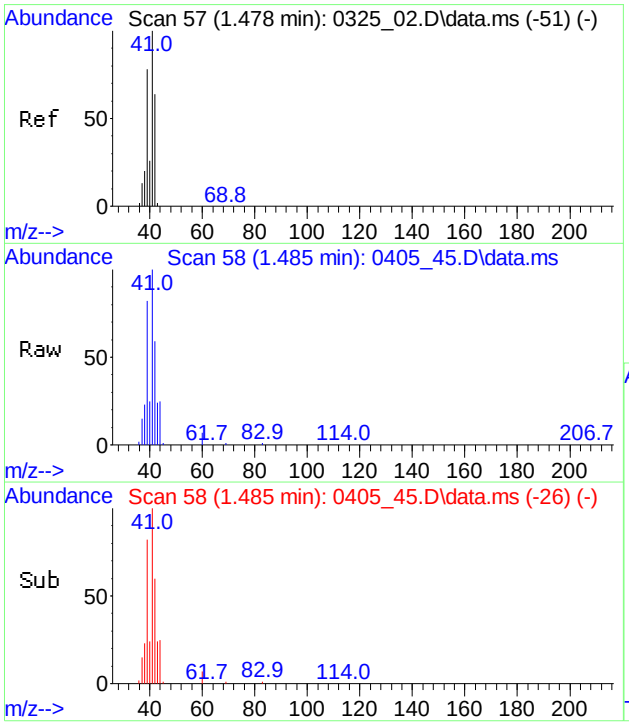
Quantitation Report (QT Reviewed)

Data Path : H:\AIR2021\CHEM24\04APR\05\
Data File : 0405_45.D
Acq On : 6 Apr 2021 6:20 pm
Operator : Keith
Client ID : SS-10 (5')
Lab ID : CH92054
ALS Vial : 43 Sample Multiplier: 1

Quant Time: Apr 07 08:18:49 2021
Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 26 09:02:26 2021
Response via : Initial Calibration



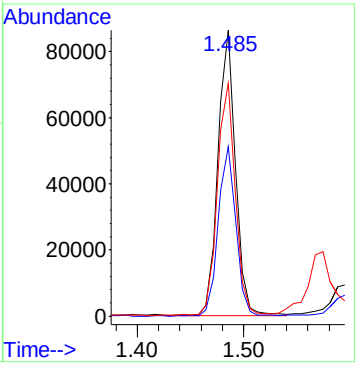



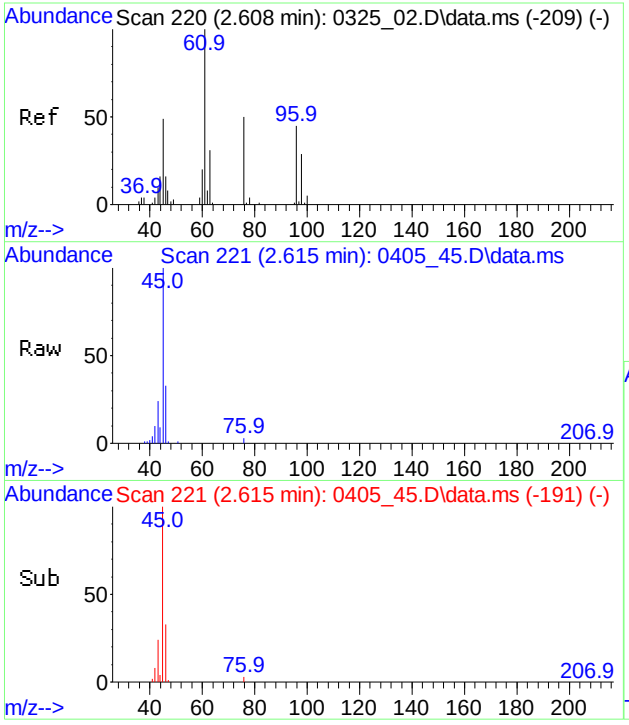



#2
Propylene
Conc: 8$ 3.120 ppbv
RT: 1.485 min Scan# 58
Delta R.T. 0.021 min
Lab File: 0405_45.D
Acq: 6 Apr 2021 6:20 pm

Tgt Ion: 41 Resp: 98535

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 60.5 | 52.0 | 78.0 |
| 39 | 84.2 | 61.8 | 92.6 |

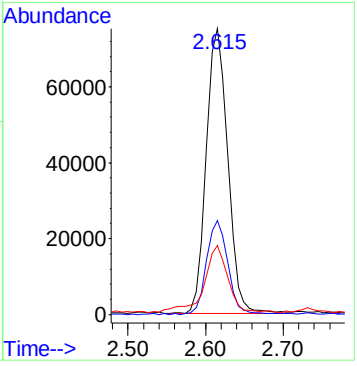


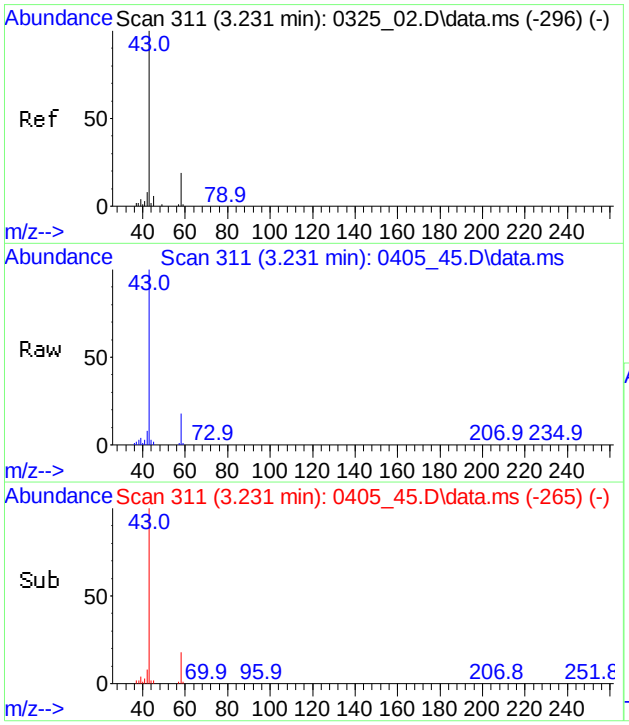




#10
Ethanol
Conc: 8$ 10.269 ppbv
RT: 2.615 min Scan# 221
Delta R.T. 0.020 min
Lab File: 0405_45.D
Acq: 6 Apr 2021 6:20 pm

Tgt Ion: 45 Resp: 144741

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 32.5 | 27.8 | 41.6 |
| 43 | 26.3 | 17.3 | 25.9# |

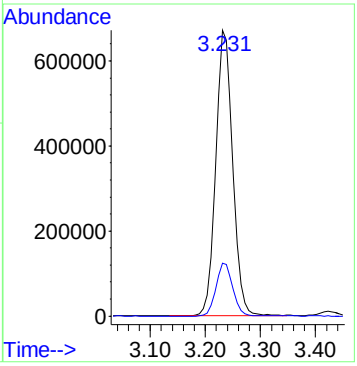


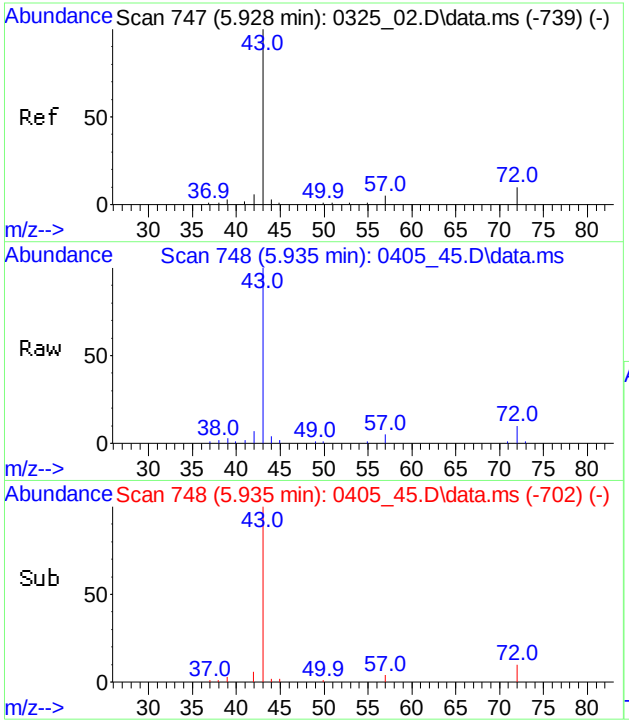



#12
Acetone
Conc: 8$ 17.701 ppbv
RT: 3.231 min Scan# 311
Delta R.T. 0.014 min
Lab File: 0405_45.D
Acq: 6 Apr 2021 6:20 pm

Tgt Ion: 43 Resp: 1443540

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 18.2 | 13.2 | 19.8 |

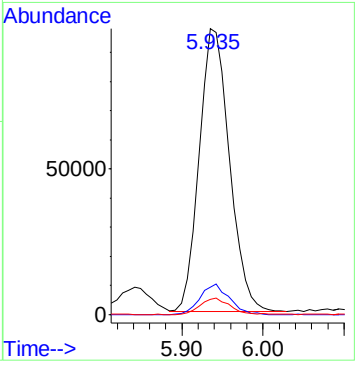


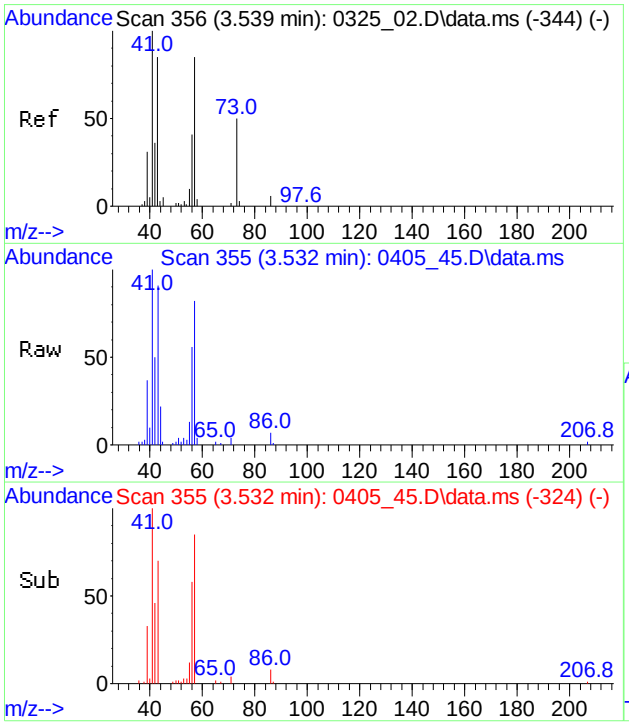




#25
Methyl Ethyl Ketone
Conc: 8$ 2.991 ppbv
RT: 5.935 min Scan# 748
Delta R.T. 0.029 min
Lab File: 0405_45.D
Acq: 6 Apr 2021 6:20 pm

Tgt Ion: 43 Resp: 251546

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 10.2 | 8.5 | 12.7 |
| 57 | 5.8 | 4.2 | 6.4 |

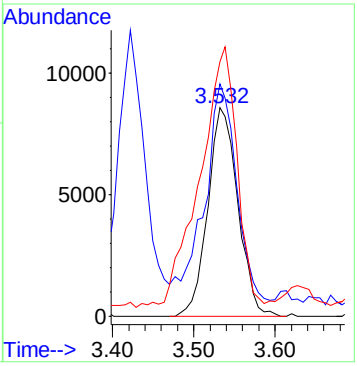


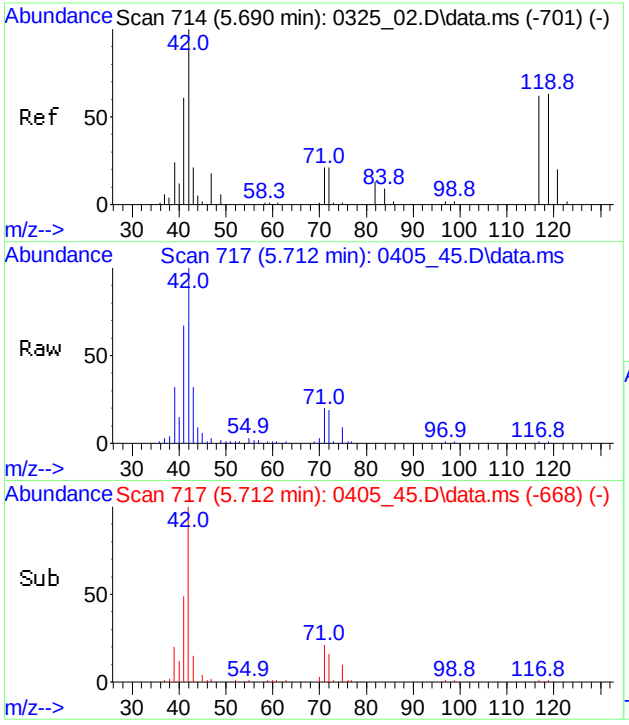



#27
Hexane
Conc: 8$ 0.387 ppbv
RT: 3.532 min Scan# 355
Delta R.T. 0.014 min
Lab File: 0405_45.D
Acq: 6 Apr 2021 6:20 pm

Tgt Ion: 57 Resp: 21927

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 43 | 109.7 | 83.3 | 124.9 |
| 41 | 155.2 | 95.6 | 143.4# |

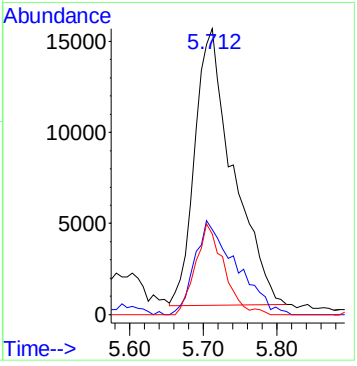


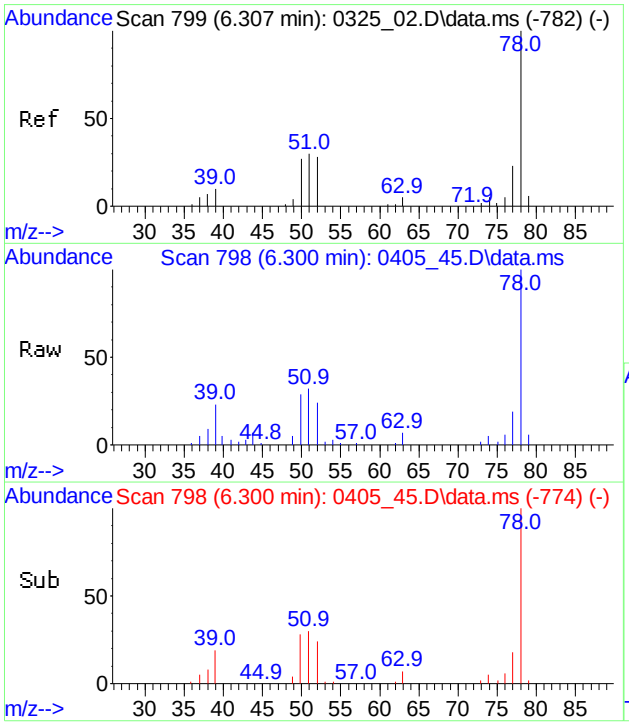




#30
Tetrahydrofuran
Conc: 8$ 1.972 ppbv
RT: 5.712 min Scan# 717
Delta R.T. 0.051 min
Lab File: 0405_45.D
Acq: 6 Apr 2021 6:20 pm

Tgt Ion: 41 Resp: 54836

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 71 | 36.5 | 28.6 | 42.8 |
| 72 | 24.4 | 28.1 | 42.1# |

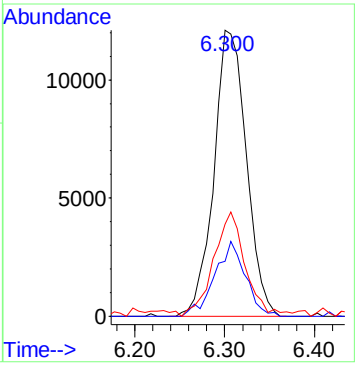


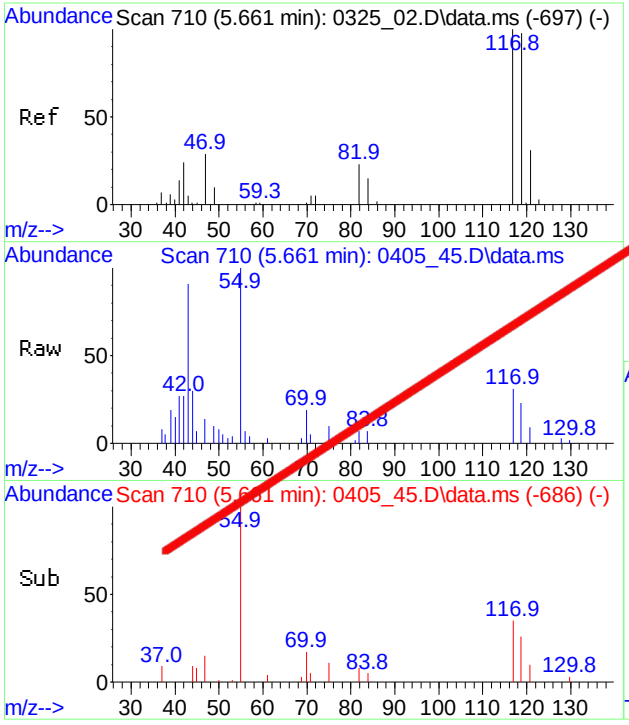



#33
Benzene
Conc: 8$ 0.461 ppbv
RT: 6.300 min Scan# 798
Delta R.T. 0.014 min
Lab File: 0405_45.D
Acq: 6 Apr 2021 6:20 pm

Tgt Ion: 78 Resp: 30375

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 24.7 | 18.2 | 27.2 |
| 51 | 35.7 | 24.2 | 36.2 |

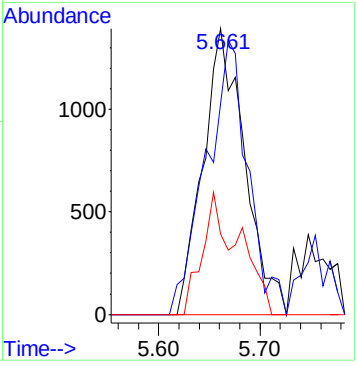


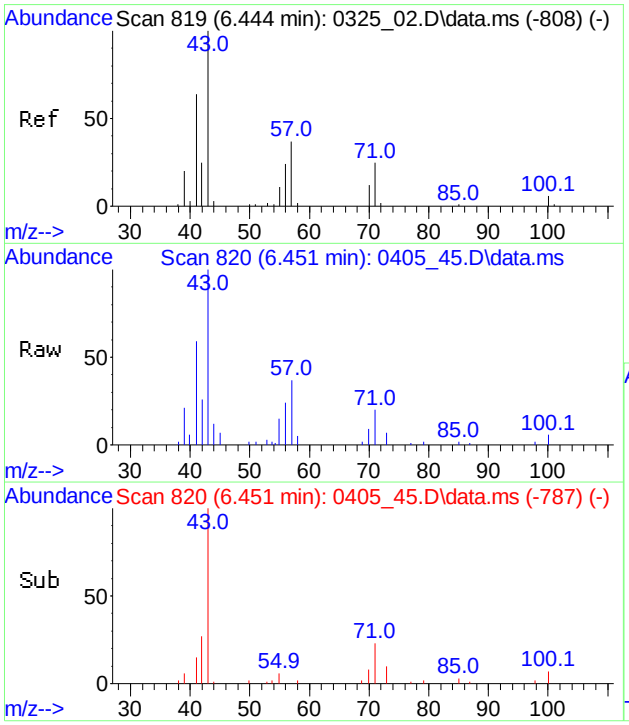




#34
Carbon Tetrachloride
Conc: 8$ Below Cal
RT: 5.661 min Scan# 710
Delta R.T. 0.022 min
Lab File: 0405_45.D
Acq: 6 Apr 2021 6:20 pm

Tgt Ion:117 Resp: 3970

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 96.9 | 78.0 | 118.0 |
| 121 | 22.6 | 12.1 | 52.1 |

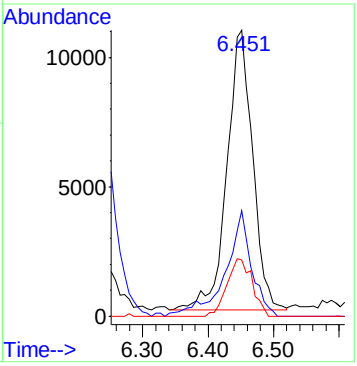


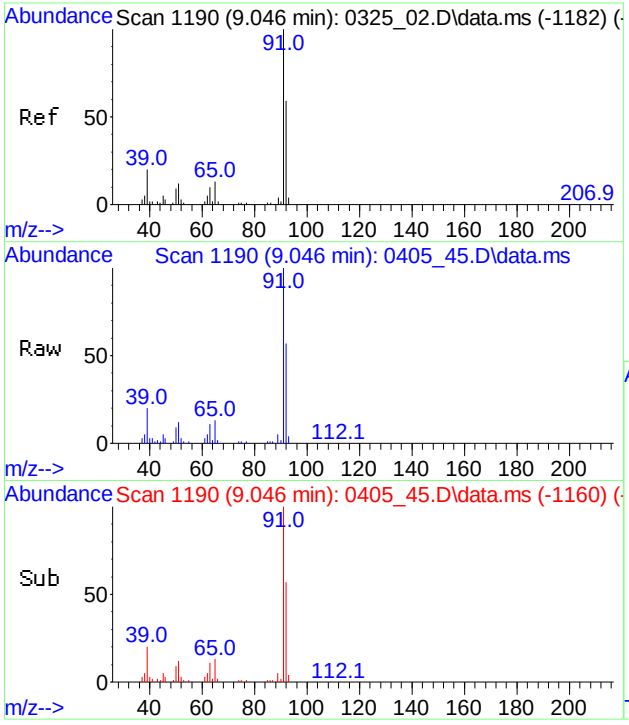



#43
Heptane
Conc: 8$ 0.408 ppbv
RT: 6.451 min Scan# 820
Delta R.T. 0.028 min
Lab File: 0405_45.D
Acq: 6 Apr 2021 6:20 pm

Tgt Ion: 43 Resp: 29430

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 57 | 37.7 | 29.5 | 44.3 |
| 71 | 19.8 | 19.8 | 29.8# |

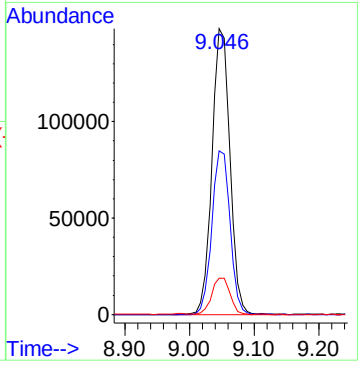


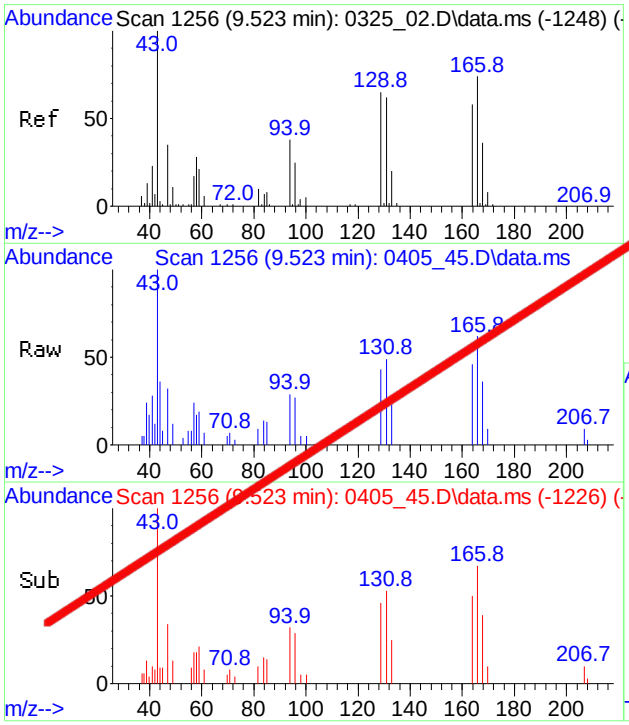




#48
Toluene
Conc: 8$ 3.472 ppbv
RT: 9.046 min Scan# 1190
Delta R.T. 0.014 min
Lab File: 0405_45.D
Acq: 6 Apr 2021 6:20 pm

Tgt Ion: 91 Resp: 285804

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 57.8 | 46.3 | 69.5 |
| 65 | 13.1 | 10.1 | 15.1 |

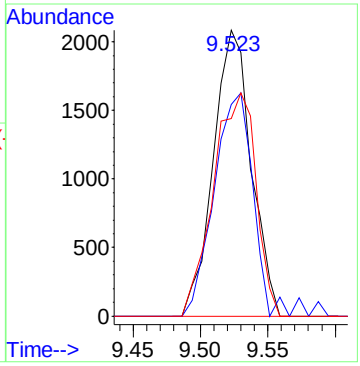


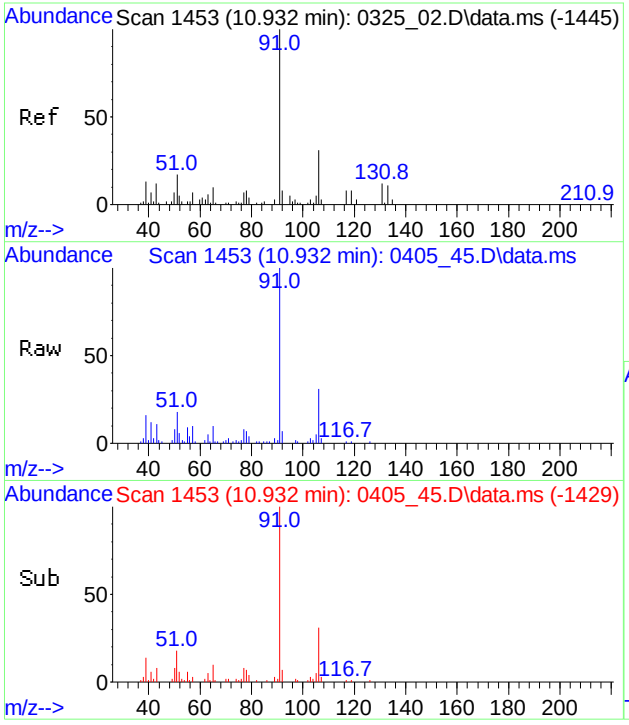



#52
Tetrachloroethene
Conc: 8$  Below Cal
RT:  9.523 min  Scan# 1256
Delta R.T.  0.015 min
Lab File:  0405_45.D
Acq:  6 Apr 2021  6:20 pm

Tgt Ion:166 Resp:  4082

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 164 | 79.3 | 62.2 | 93.4 |
| 129 | 87.8 | 68.3 | 102.5 |

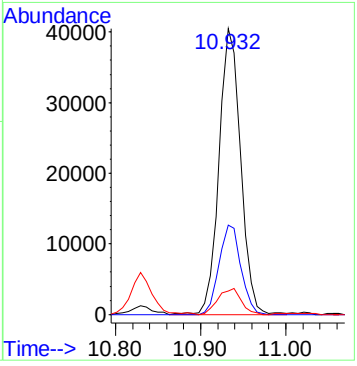


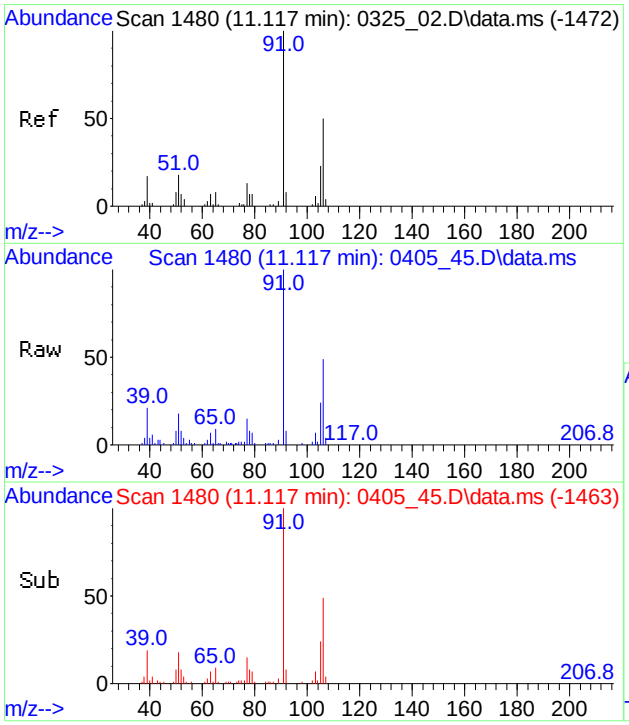




#56
Ethylbenzene
Conc: 8$  0.609 ppbv
RT:  10.932 min  Scan# 1453
Delta R.T.  0.014 min
Lab File:  0405_45.D
Acq:  6 Apr 2021  6:20 pm

Tgt Ion: 91 Resp:  70861

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 31.5 | 11.4 | 51.4 |
| 77 | 9.8 | 0.0 | 28.7 |

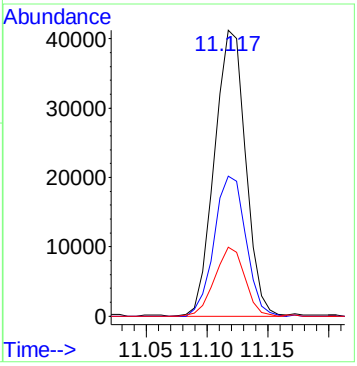


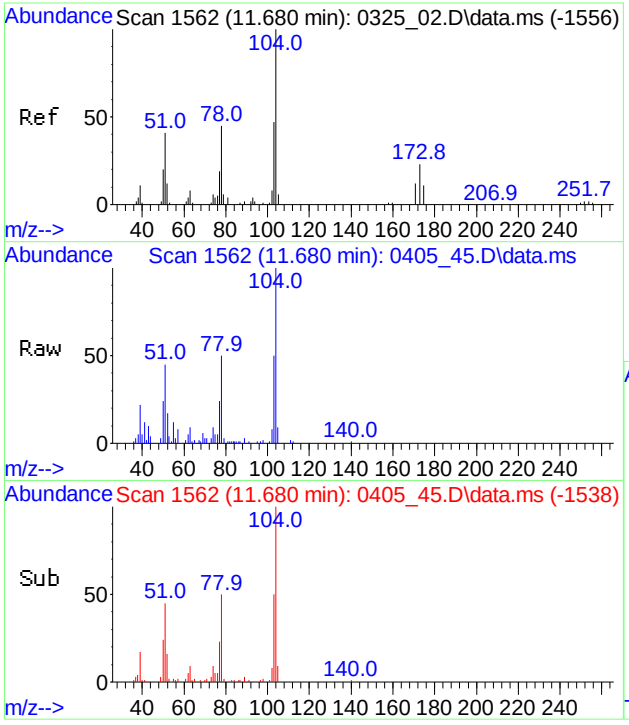



#57
m,p-Xylene
Conc: 8$ 0.834 ppbv
RT: 11.117 min Scan# 1480
Delta R.T. 0.013 min
Lab File: 0405_45.D
Acq: 6 Apr 2021 6:20 pm

Tgt Ion: 91 Resp: 72963

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 49.8 | 39.8 | 59.8 |
| 105 | 23.4 | 18.2 | 27.4 |

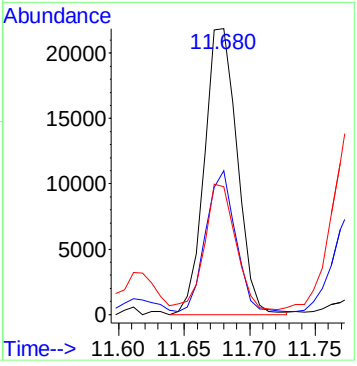


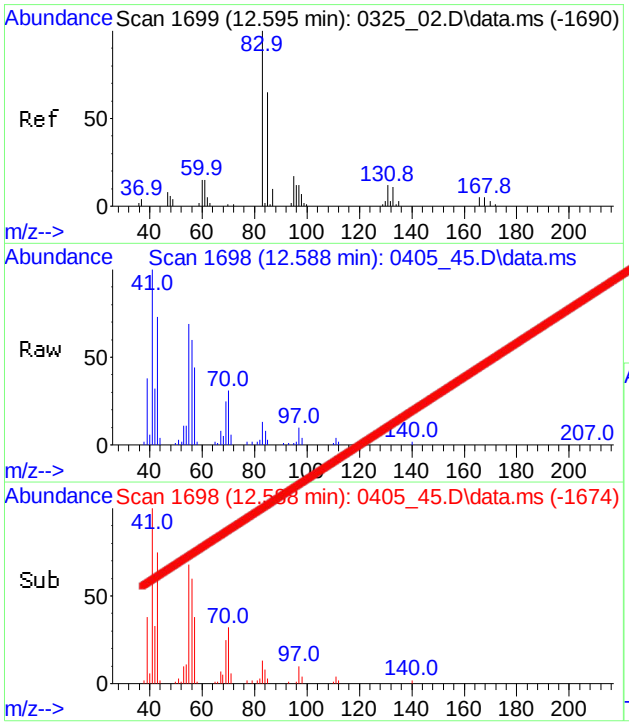




#59
Styrene
Conc: 8$ 0.599 ppbv
RT: 11.680 min Scan# 1562
Delta R.T. 0.014 min
Lab File: 0405_45.D
Acq: 6 Apr 2021 6:20 pm

Tgt Ion:104 Resp: 37575

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 44.4 | 36.2 | 54.4 |
| 51 | 41.3 | 33.0 | 49.6 |

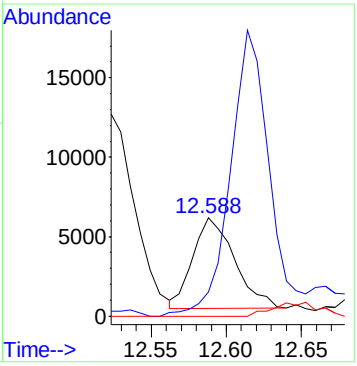


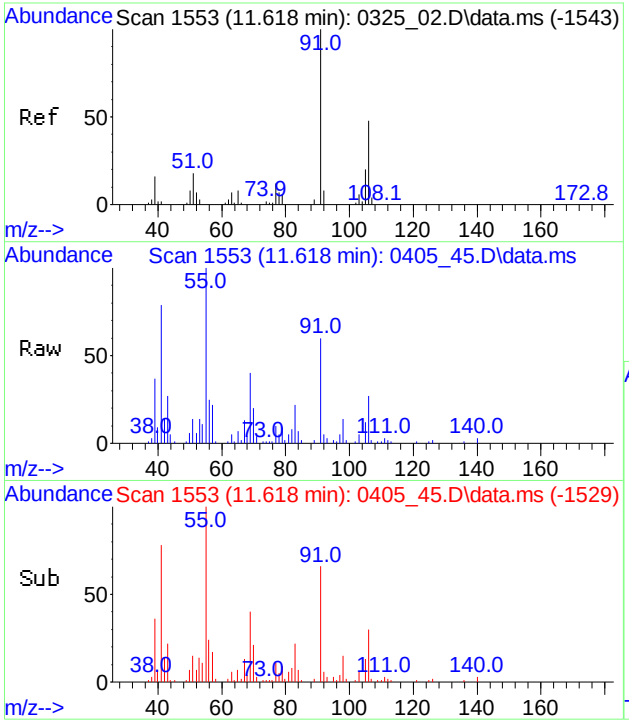



#60
1,1,2,2-Tetrachloroethane
Conc: 8$  Below Cal
RT: 12.588 min Scan# 1698
Delta R.T. 0.006 min
Lab File: 0405_45.D
Acq: 6 Apr 2021 6:20 pm

Tgt Ion: 83 Resp: 11011

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 294.0 | 51.3 | 76.9# |
| 106 | 0.0 | 0.0 | 0.0 |

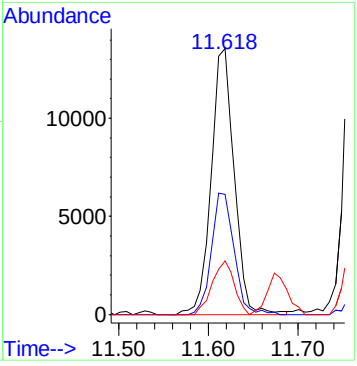


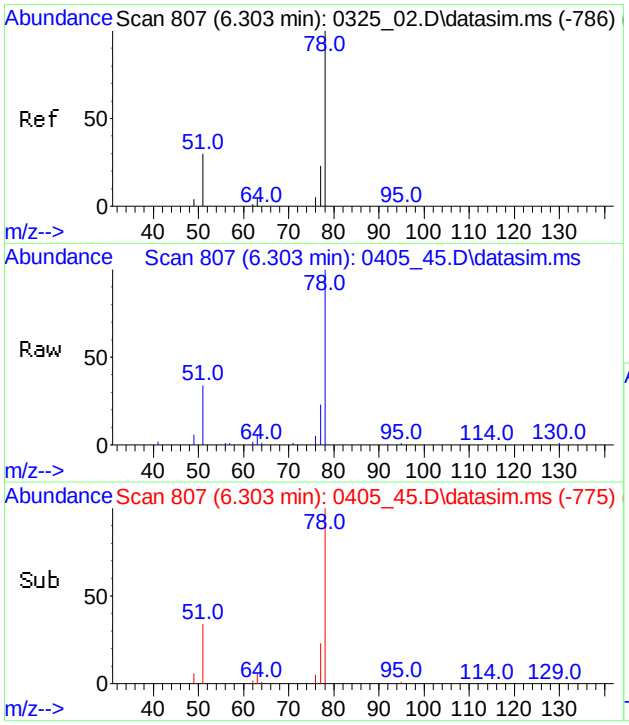




#61
o-Xylene
Conc: 8$ 0.278 ppbv
RT: 11.618 min Scan# 1553
Delta R.T. 0.014 min
Lab File: 0405_45.D
Acq: 6 Apr 2021 6:20 pm

Tgt Ion: 91 Resp: 24274

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 44.8 | 37.5 | 56.3 |
| 105 | 19.2 | 15.1 | 22.7 |

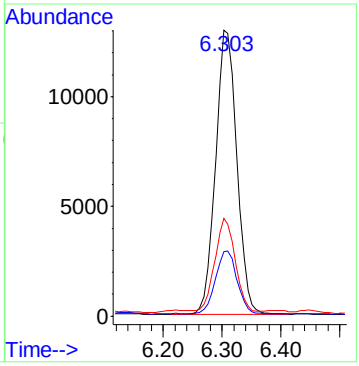


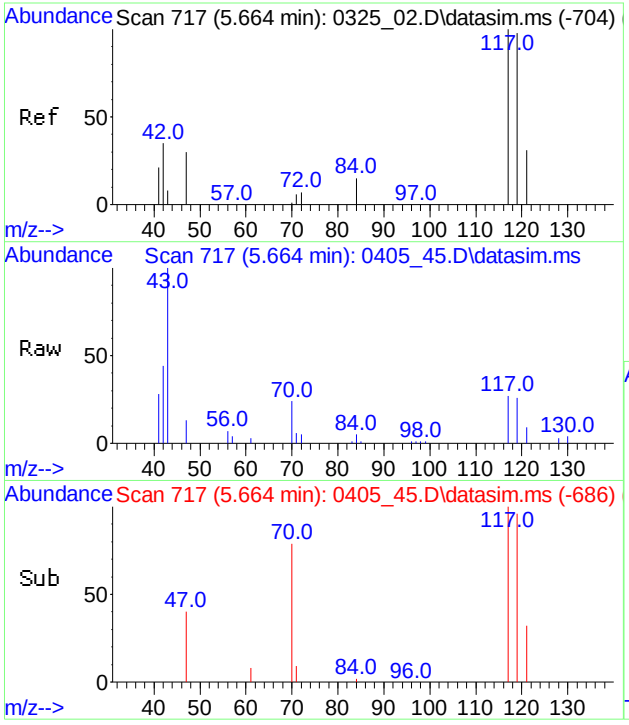



#86
Benzene(sim)
Conc: 8$ 0.427 ppbv
RT: 6.303 min Scan# 807
Delta R.T. 0.021 min
Lab File: 0405_45.D
Acq: 6 Apr 2021 6:20 pm

Tgt Ion: 78 Resp: 32591

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 22.5 | 18.0 | 27.0 |
| 51 | 31.4 | 23.9 | 35.9 |

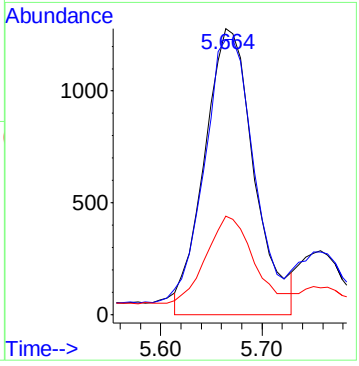


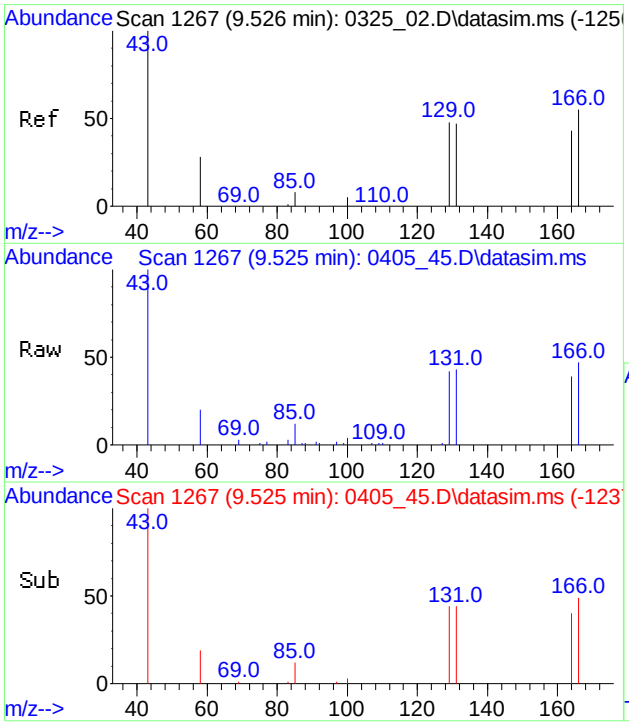




#87
Carbon Tetrachloride(sim)
Conc: 8$ 0.050 ppbv
RT: 5.661 min Scan# 717
Delta R.T. 0.022 min
Lab File: 0405_45.D
Acq: 6 Apr 2021 6:20 pm

Tgt Ion:117 Resp: 3970

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 85.7 | 78.4 | 117.6 |
| 121 | 34.3 | 25.7 | 38.5 |

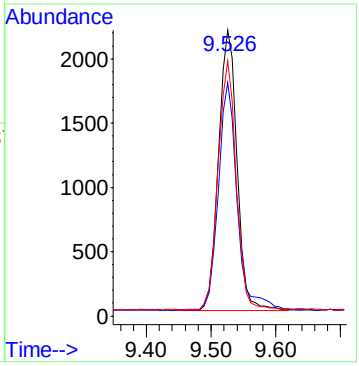


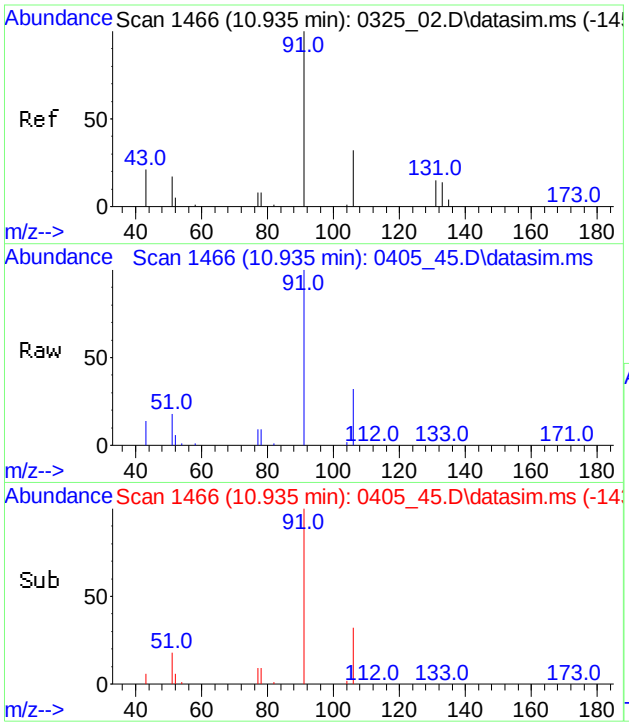



#104
Tetrachloroethene(sim)
Conc: 8$ 0.082 ppbv
RT: 9.525 min Scan# 1267
Delta R.T. 0.014 min
Lab File: 0405_45.D
Acq: 6 Apr 2021 6:20 pm

Tgt Ion:166 Resp: 4348

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 164 | 82.3 | 58.4 | 98.4 |
| 129 | 87.4 | 66.6 | 106.6 |

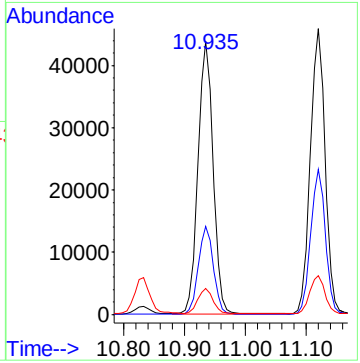


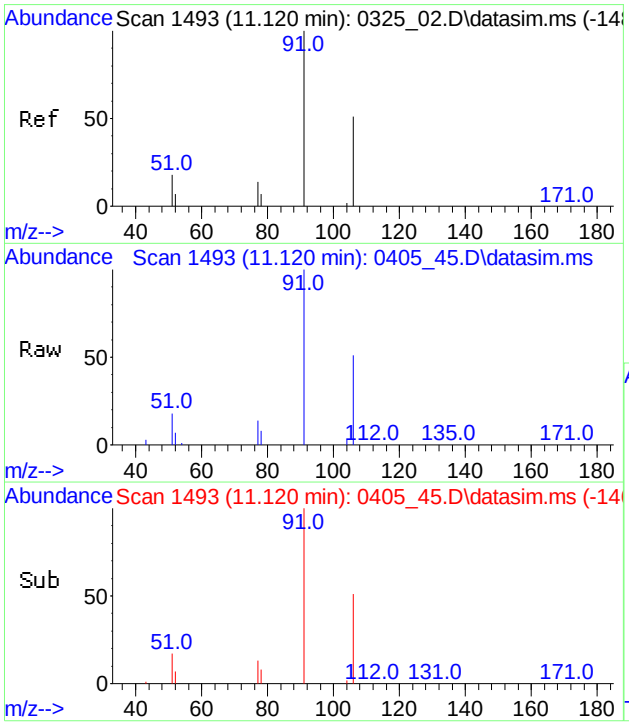




#108
Ethylbenzene(sim)
Conc: 8$ 0.598 ppb
RT: 10.935 min Scan# 1466
Delta R.T. 0.014 min
Lab File: 0405_45.D
Acq: 6 Apr 2021 6:20 pm

Tgt Ion: 91 Resp: 75750

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 31.9 | 25.8 | 38.8 |
| 77 | 9.1 | 7.0 | 10.6 |

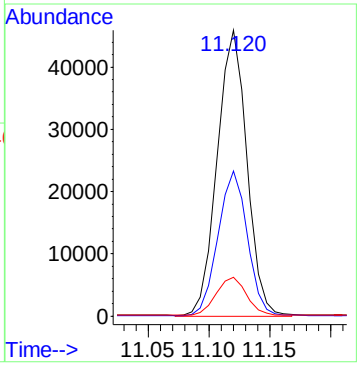


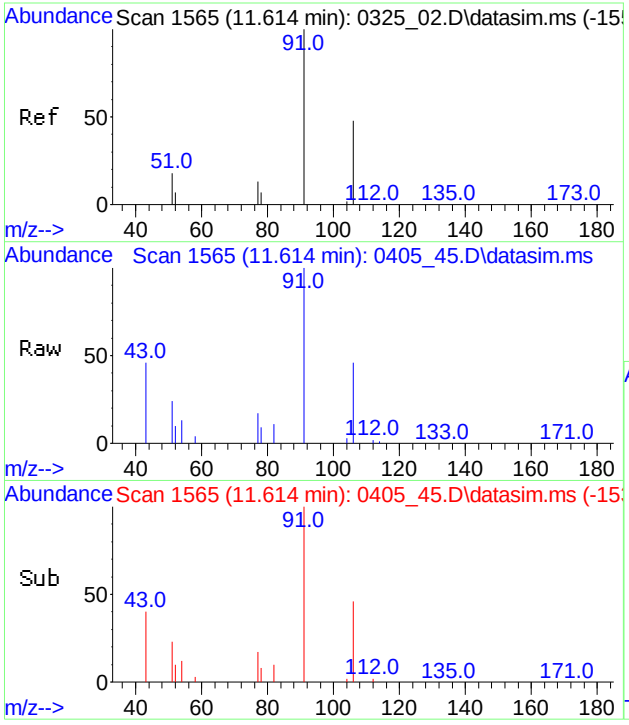



#109
m,p-Xylene(sim)
Conc: 8$ 0.845 ppbv
RT: 11.117 min Scan# 1493
Delta R.T. 0.013 min
Lab File: 0405_45.D
Acq: 6 Apr 2021 6:20 pm

Tgt Ion: 91 Resp: 72963

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 49.8 | 44.8 | 54.8 |
| 77 | 14.2 | 10.5 | 15.7 |

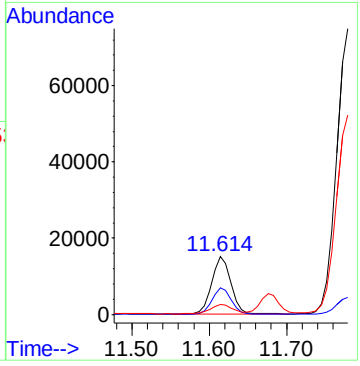



#110
o-Xylene(sim)
Conc: 8$ 0.287 ppb
RT: 11.614 min Scan# 1565
Delta R.T. 0.014 min
Lab File: 0405_45.D
Acq: 6 Apr 2021 6:20 pm

Tgt Ion: 91 Resp: 25914

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 45.7 | 37.6 | 56.4 |
| 77 | 19.3 | 9.8 | 14.8# |



AIR ANALYSIS DATA SHEET

CLIENT ID: OA-1

Client: GC-ENV Lab: Phoenix Env. Labs

SDG No.: GCH92051 Lab Sample ID: CH92055

Canister: 28503 Lab File ID: 0405_17.D

Instrument: CHEM20 Column: RTX-1 60M Date Received: 04/05/21

Purge Volume 200 (cc) Date Analyzed: 04/05/21

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 | 0.455 | | 0.202 | 0.202 | r |
| 74-87-3 | Chloromethane | 0.619 | | 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 | 6.90 | S | 0.531 | 0.531 | r |
| 67-64-1 | Acetone | 5.51 | S | 0.421 | 0.421 | r |
| 75-69-4 | Trichlorofluoromethane | 0.258 | | 0.178 | 0.178 | r |
| 67-63-0 | Isopropylalcohol | 0.962 | 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 | 0.468 | | 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 | 2.01 | | 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 | 0.451 | | 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

AIR ANALYSIS DATA SHEET

CLIENT ID: OA-1

Client: GC-ENV Lab: Phoenix Env. Labs

SDG No.: GCH92051 Lab Sample ID: CH92055

Canister: 28503 Lab File ID: 0405_17.D

Instrument: CHEM20 Column: RTX-1 60M Date Received: 04/05/21

Purge Volume 200 (cc) Date Analyzed: 04/05/21

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) | 0.083 | | 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 |
| 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:\AIR2021\CHEM20\04APR\05\
Data File : 0405_17.D
Acq On : 5 Apr 2021 7:33 pm
Operator :
Client ID : OA-1
Lab ID : CH92055
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Apr 06 08:32:20 2021
Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0329.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Mar 29 13:12:48 2021
Response via : Initial Calibration

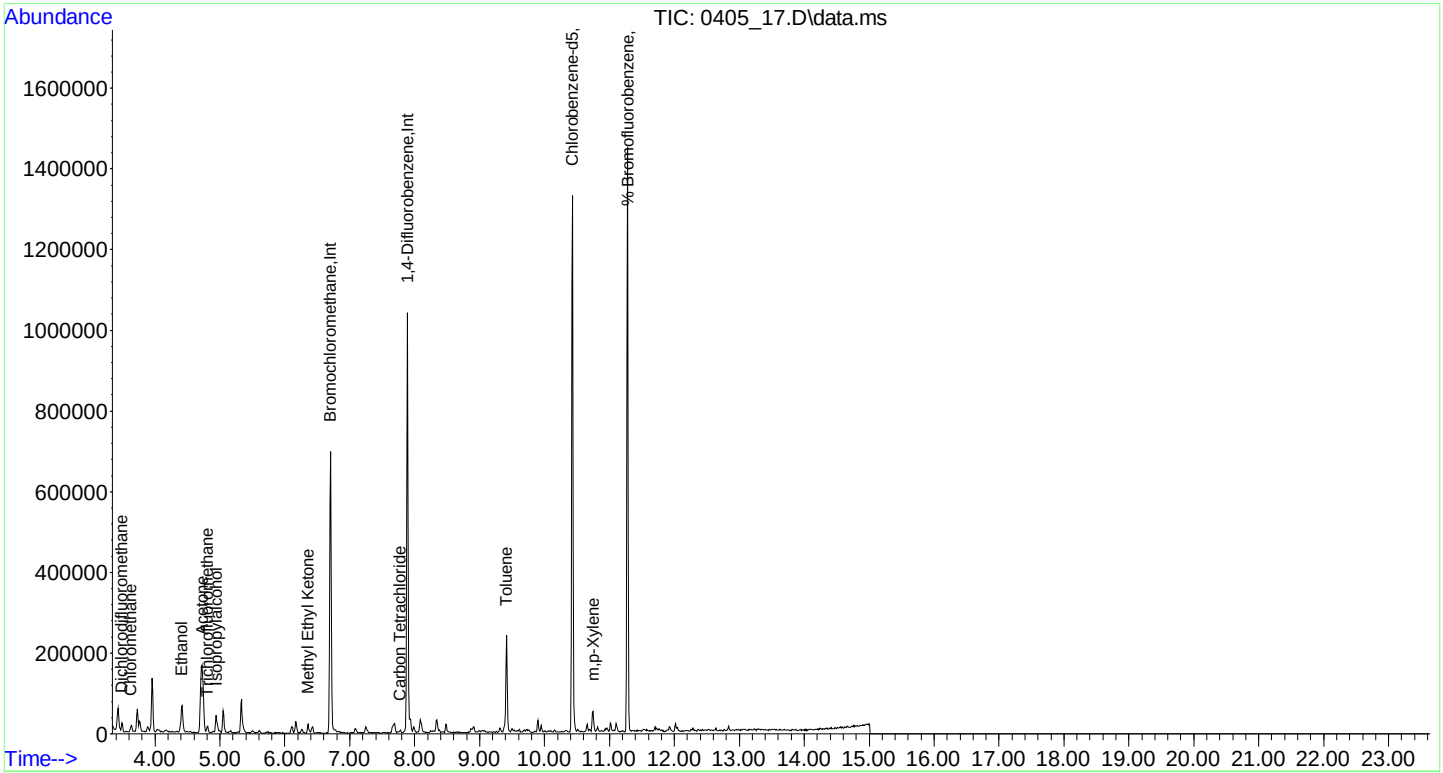
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Bromochloromethane | 6.704 | 130 | 140240 | 10.000 | ng | | 0.00 |
| 37) 1,4-Difluorobenzene | 7.889 | 114 | 541563 | 10.000 | ng | | 0.00 |
| 54) Chlorobenzene-d5 | 10.430 | 82 | 272332 | 10.000 | ng | | 0.00 |
| 81) Bromochloromethane(sim) | 6.710 | 130 | 166678 | 10.000 | ng | # | 0.00 |
| 96) 1,4-Difluorobenzene(sim) | 7.889 | 114 | 541563 | 10.000 | ng | | 0.00 |
| 106) Chlorobenzene-d5(sim) | 10.430 | 82 | 272332 | 10.000 | ng | # | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 63) % Bromofluorobenzene | 11.281 | 95 | 327425 | 10.201 | ppbv | | 0.00 |
| Spiked Amount 10.000 | Range 70 - 130 | | Recovery = 102.00% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 3) Dichlorodifluoromethane | 3.489 | 85 | 19217 | 0.455 | ppbv | | 90 |
| 4) Chloromethane | 3.629 | 50 | 16304 | 0.619 | ppbv | | 98 |
| 11) Ethanol | 4.416 | 45 | 81599 | 6.895 | ppbv# | | 75 |
| 12) Acetone | 4.728 | 43 | 238537 | 5.514 | ppbv# | | 83 |
| 13) Trichlorofluoromethane | 4.804 | 101 | 11335 | 0.258 | ppbv# | | 93 |
| 14) Isopropylalcohol | 4.944 | 45 | 50995 | 0.962 | ppbv | | 92 |
| 26) Methyl Ethyl Ketone | 6.356 | 43 | 27728 | 0.468 | ppbv# | | 96 |
| 35) Carbon Tetrachloride | 7.777 | 117 | 3105 | 0.076 | ppbv | | 96 |
| 49) Toluene | 9.415 | 91 | 103897 | 2.010 | ppbv | | 98 |
| 58) m,p-Xylene | 10.748 | 91 | 22384 | 0.451 | ppbv | | 94 |
| 85] Trichlorofluoromethane... | 4.809 | 101 | 12370 | 0.238 | ppbv# | | 99 |
| 89] Carbon Tetrachloride(sim) | 7.783 | 117 | 3878 | 0.083 | ppbv | | 97 |
| 108] m,p-Xylene(sim) | 10.748 | 91 | 22384 | 0.419 | ppbv# | | 94 |

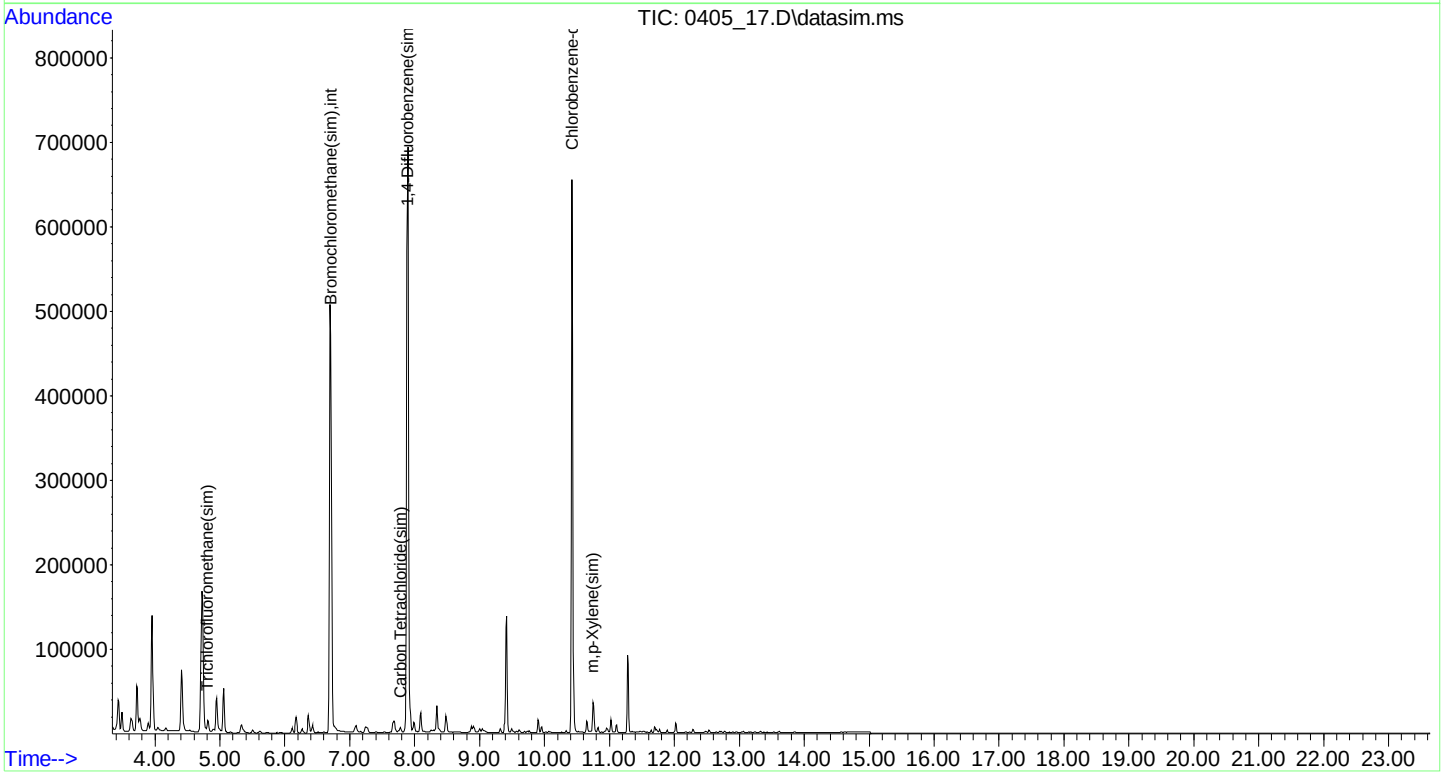
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

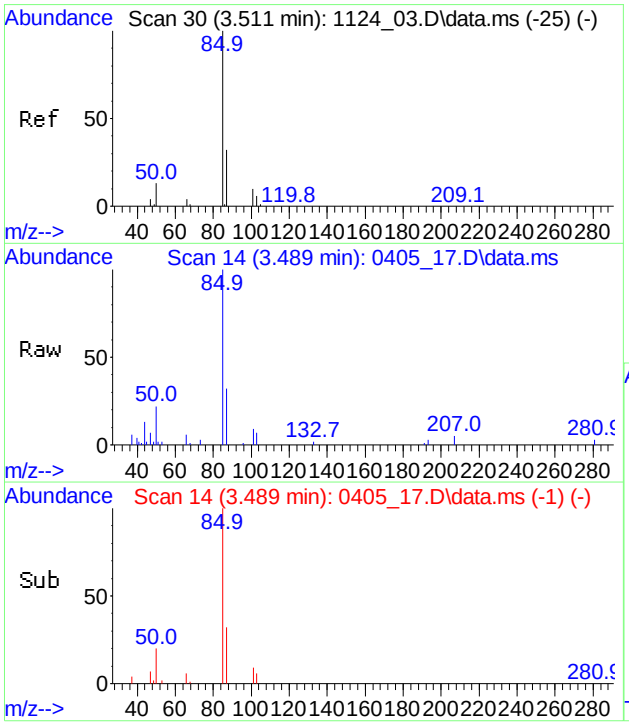
Quantitation Report (QT Reviewed)

Data Path : H:\AIR2021\CHEM20\04APR\05\
Data File : 0405_17.D
Acq On : 5 Apr 2021 7:33 pm
Operator :
Client ID : OA-1
Lab ID : CH92055
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Apr 06 08:32:20 2021
Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0329.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Mar 29 13:12:48 2021
Response via : Initial Calibration



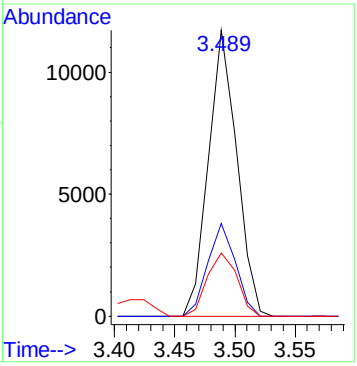



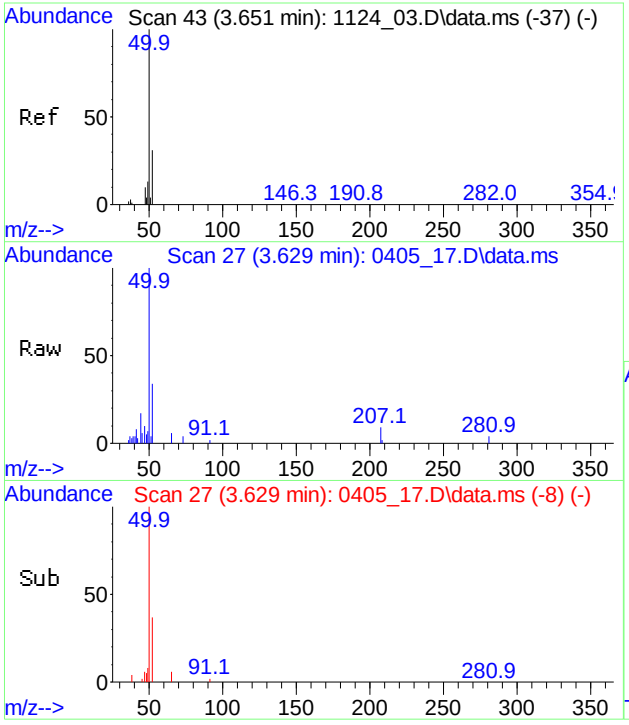



#3
Dichlorodifluoromethane
Conc: 8$ 0.455 ppbv
RT: 3.489 min Scan# 14
Delta R.T. -0.010 min
Lab File: 0405_17.D
Acq: 5 Apr 2021 7:33 pm

Tgt Ion: 85 Resp: 19217

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 31.8 | 30.8 | 46.2 |
| 50 | 23.1 | 15.7 | 23.5 |

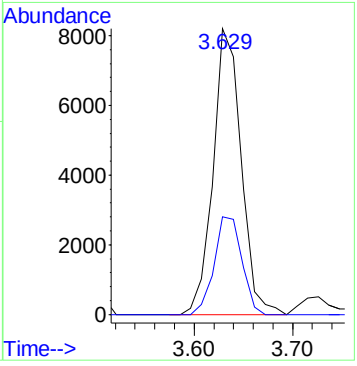


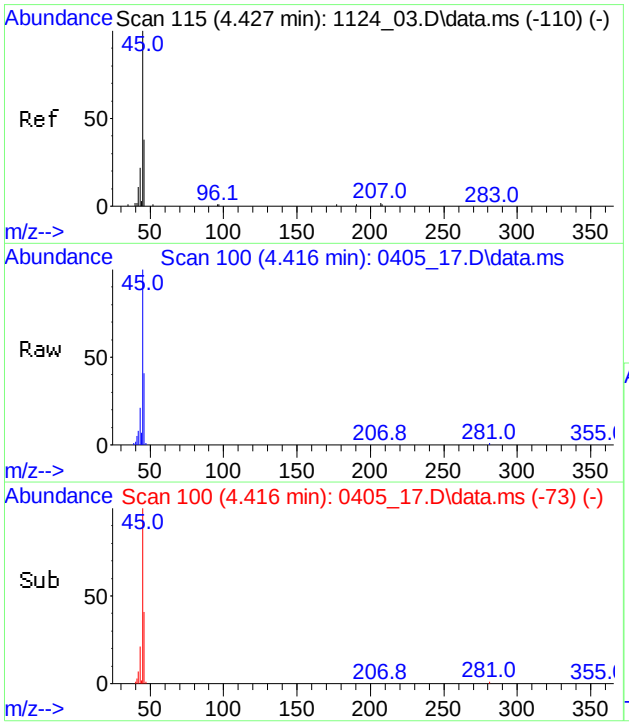




#4
Chloromethane
Conc: 8$ 0.619 ppbv
RT: 3.629 min Scan# 27
Delta R.T. -0.000 min
Lab File: 0405_17.D
Acq: 5 Apr 2021 7:33 pm

Tgt Ion: 50 Resp: 16304

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 33.7 | 14.7 | 54.7 |

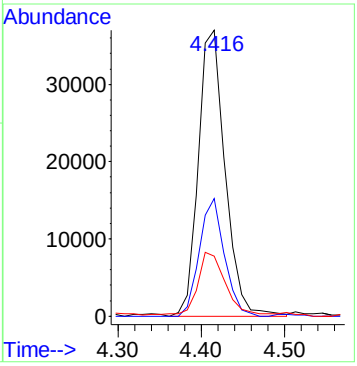


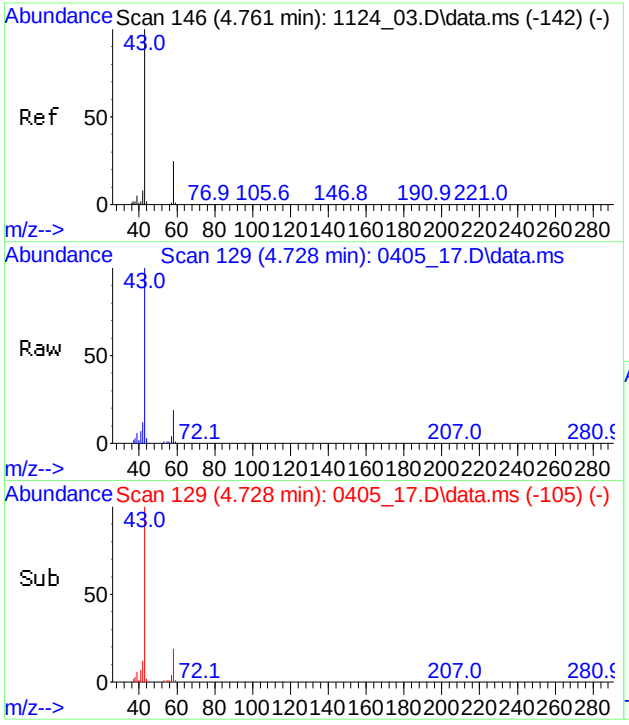



#11
Ethanol
Conc: 8$ 6.895 ppbv
RT: 4.416 min Scan# 100
Delta R.T. -0.010 min
Lab File: 0405_17.D
Acq: 5 Apr 2021 7:33 pm

Tgt Ion: 45 Resp: 81599

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 38.4 | 0.0 | 0.0# |
| 43 | 22.3 | 10.0 | 15.0# |

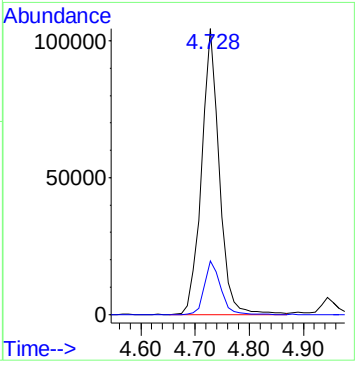


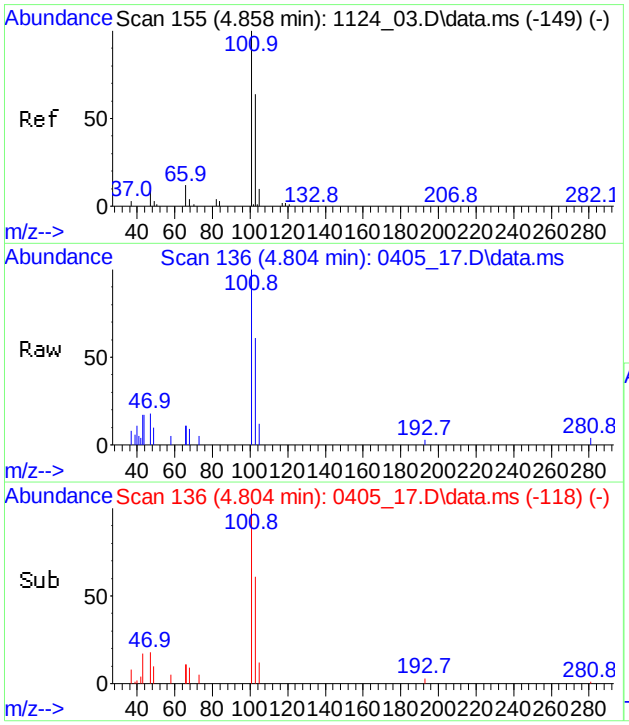




#12
Acetone
Conc: 8$ 5.514 ppbv
RT: 4.728 min Scan# 129
Delta R.T. -0.043 min
Lab File: 0405_17.D
Acq: 5 Apr 2021 7:33 pm

Tgt Ion: 43 Resp: 238537

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 17.1 | 20.4 | 30.6# |

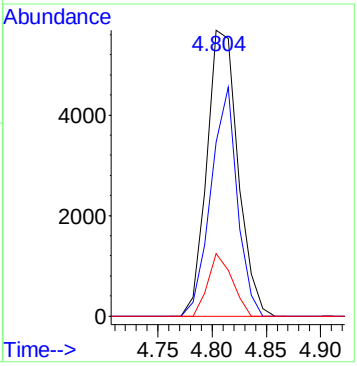


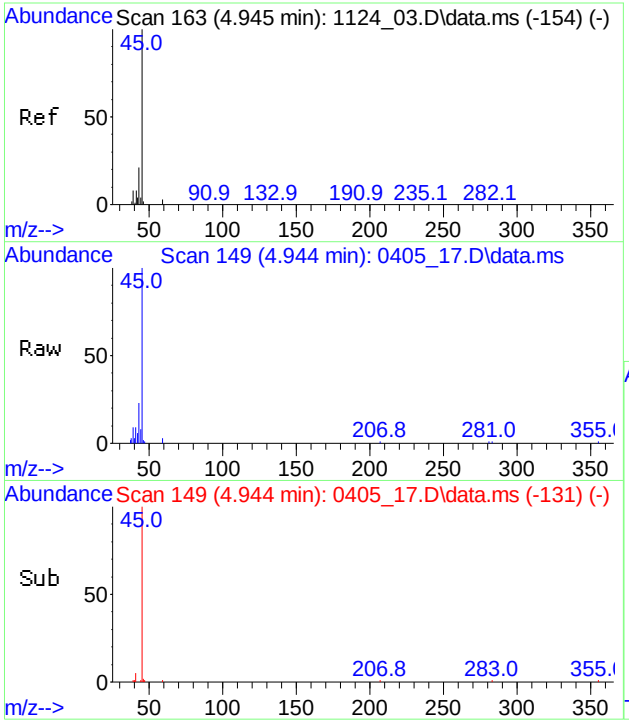



#13
Trichlorofluoromethane
Conc: 8$ 0.258 ppbv
RT: 4.804 min Scan# 136
Delta R.T. -0.010 min
Lab File: 0405_17.D
Acq: 5 Apr 2021 7:33 pm

Tgt Ion:101 Resp: 11335

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 67.5 | 58.3 | 87.5 |
| 66 | 16.9 | 10.1 | 15.1# |

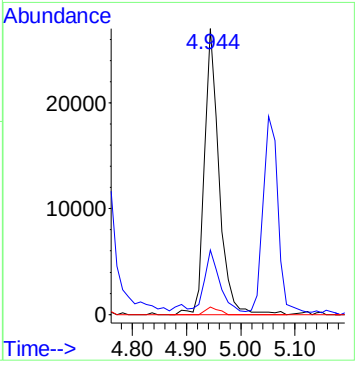


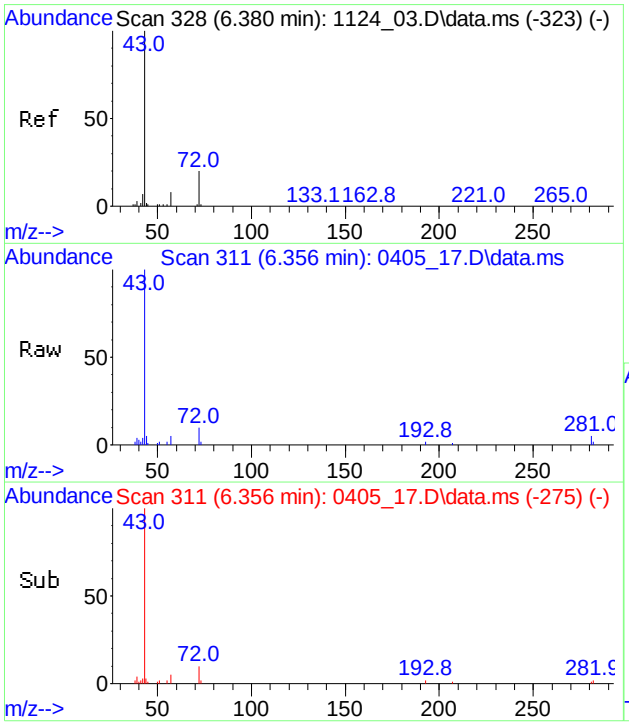




#14
Isopropylalcohol
Conc: 8$ 0.962 ppbv
RT: 4.944 min Scan# 149
Delta R.T. -0.011 min
Lab File: 0405_17.D
Acq: 5 Apr 2021 7:33 pm

Tgt Ion: 45 Resp: 50995

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 21.6 | 20.6 | 31.0 |
| 59 | 2.3 | 2.1 | 3.1 |

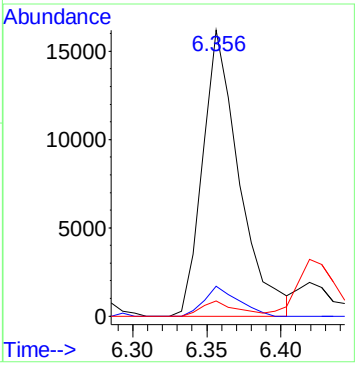


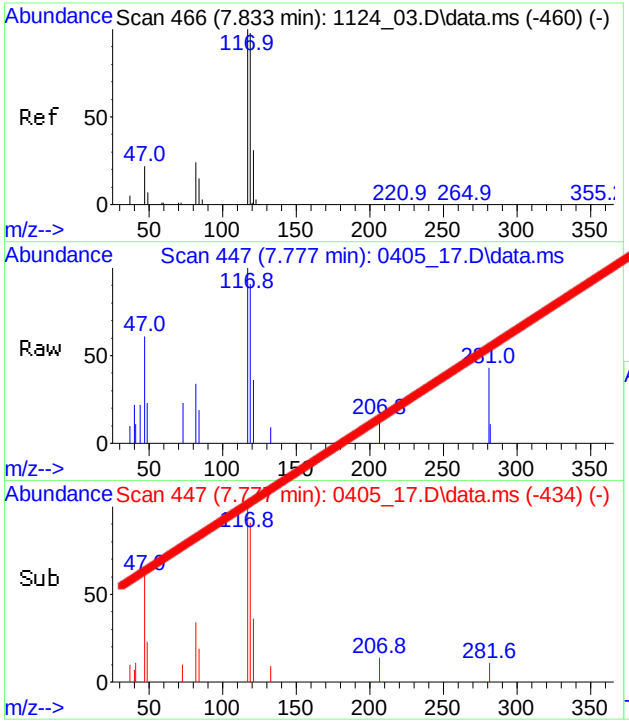



#26
Methyl Ethyl Ketone
Conc: 8$ 0.468 ppbv
RT: 6.356 min Scan# 311
Delta R.T. -0.016 min
Lab File: 0405_17.D
Acq: 5 Apr 2021 7:33 pm

Tgt Ion: 43 Resp: 27728

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 9.7 | 8.8 | 13.2 |
| 57 | 5.1 | 3.0 | 4.6# |

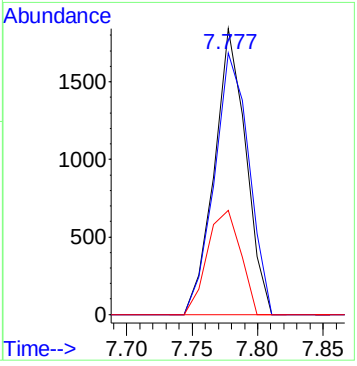


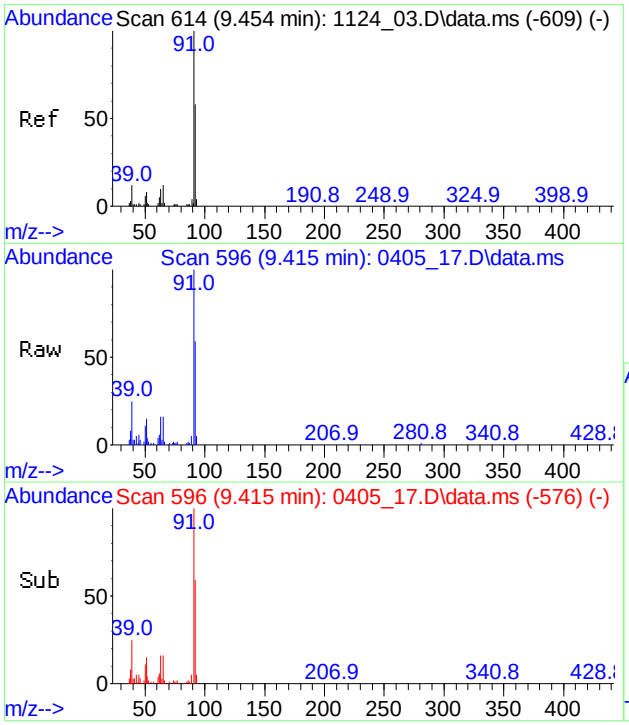




#35
Carbon Tetrachloride
Conc: 8$ Below Cal
RT: 7.777 min Scan# 447
Delta R.T. -0.011 min
Lab File: 0405_17.D
Acq: 5 Apr 2021 7:33 pm

Tgt Ion:117 Resp: 3105

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 100.3 | 82.1 | 122.1 |
| 121 | 38.4 | 12.6 | 52.6 |

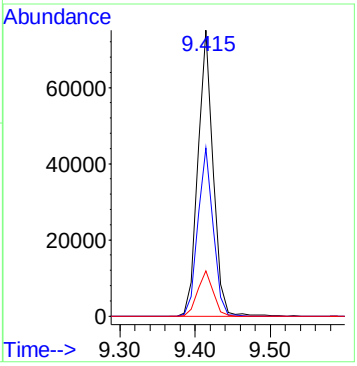


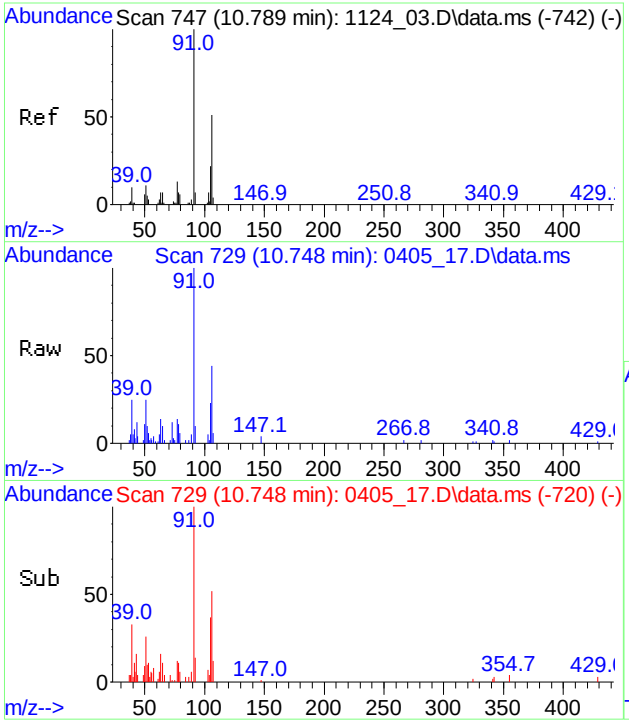



#49
Toluene
Conc: 8$ 2.010 ppbv
RT: 9.415 min Scan# 596
Delta R.T. -0.009 min
Lab File: 0405_17.D
Acq: 5 Apr 2021 7:33 pm

Tgt Ion: 91 Resp: 103897

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 59.1 | 46.8 | 70.2 |
| 65 | 16.1 | 11.5 | 17.3 |

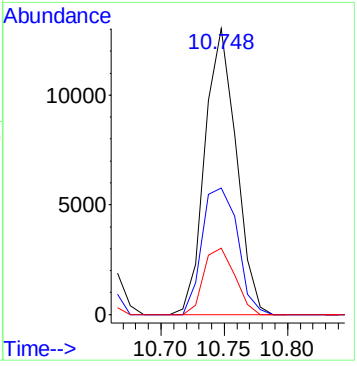


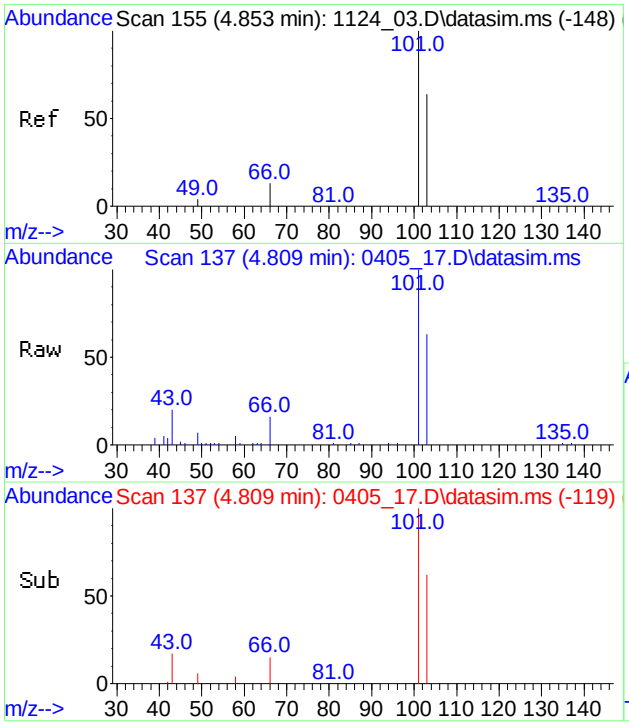




#58
m,p-Xylene
Conc: 8$ 0.451 ppbv
RT: 10.748 min Scan# 729
Delta R.T. -0.010 min
Lab File: 0405_17.D
Acq: 5 Apr 2021 7:33 pm

Tgt Ion: 91 Resp: 22384

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 50.4 | 36.6 | 54.8 |
| 105 | 23.1 | 17.4 | 26.0 |

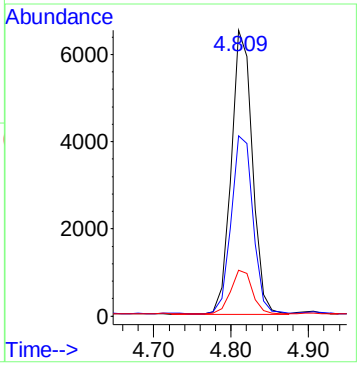


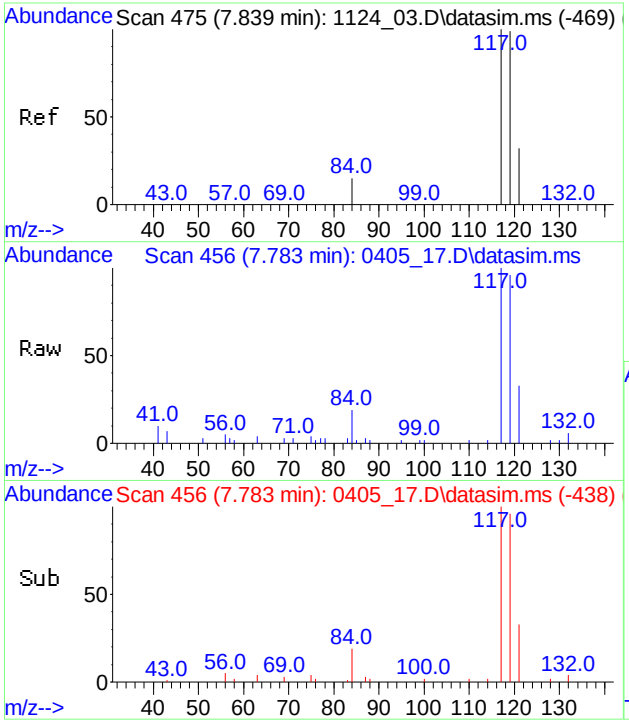



#85
Trichlorofluoromethane(sim)
Conc: 8$ 0.238 ppbv
RT: 4.809 min Scan# 137
Delta R.T. -0.011 min
Lab File: 0405_17.D
Acq: 5 Apr 2021 7:33 pm

Tgt Ion:101 Resp: 12370

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 64.5 | 51.7 | 77.5 |
| 66 | 15.6 | 14.7 | 14.7# |

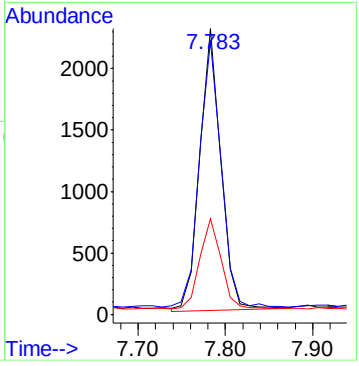


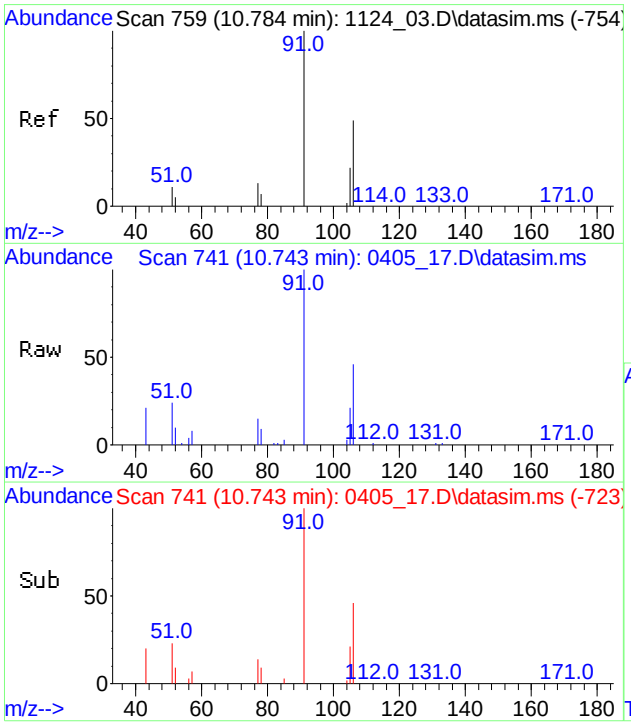




#89
Carbon Tetrachloride(sim)
Conc: 8$ 0.083 ppbv
RT: 7.783 min Scan# 456
Delta R.T. -0.000 min
Lab File: 0405_17.D
Acq: 5 Apr 2021 7:33 pm

Tgt Ion:117 Resp: 3878

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 96.1 | 80.2 | 120.2 |
| 121 | 32.4 | 25.4 | 38.2 |

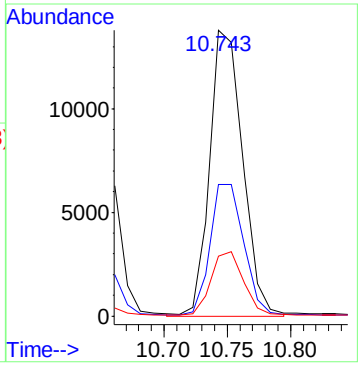





#108
m,p-Xylene(sim)
Conc: 8$ 0.419 ppbv
RT: 10.748 min Scan# 741
Delta R.T. -0.010 min
Lab File: 0405_17.D
Acq: 5 Apr 2021 7:33 pm

Tgt Ion: 91 Resp: 22384

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 50.4 | 41.1 | 50.3# |
| 105 | 23.1 | 17.4 | 26.0 |



AIR ANALYSIS DATA SHEET

CLIENT ID: SS-6

Client: GC-ENV Lab: Phoenix Env. Labs

SDG No.: GCH92051 Lab Sample ID: CH92056

Canister: 28582 Lab File ID: 0405_46.D

Instrument: CHEM24 Column: RTX-VMS Date Received: 04/05/21

Purge Volume 200 (cc) Date Analyzed: 04/06/21

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

| CAS NO. | COMPOUND | CONC. | Q | MDL | PQL | R |
|---|---|---|---|---|---|---|
| 115-07-1 | Propylene | 0.715 | | 0.581 | 0.581 | r |
| 75-71-8 | Dichlorodifluoromethane | 0.396 | | 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 | 336 | ES | 0.531 | 0.531 | |
| 67-64-1 | Acetone | 68.5 | ES | 0.421 | 0.421 | |
| 75-69-4 | Trichlorofluoromethane | 0.229 | | 0.178 | 0.178 | r |
| 67-63-0 | Isopropylalcohol | 38.5 | 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 | 4.04 | | 0.339 | 0.339 | r |
| 110-54-3 | Hexane | 0.515 | S | 0.284 | 0.284 | r |
| 141-78-6 | Ethyl acetate | 0.278 | U | 0.278 | 0.278 | r |
| 109-99-9 | Tetrahydrofuran | 0.339 | U | 0.339 | 0.339 | r |
| 71-55-6 | 1,1,1-Trichloroethane | 10.9 | | 0.183 | 0.183 | r |
| 71-43-2 | Benzene | 0.313 | U | 0.313 | 0.313 | r |
| 110-82-7 | Cyclohexane | 0.449 | | 0.291 | 0.291 | r |
| 123-91-1 | 1,4-Dioxane | 1.46 | | 0.278 | 0.278 | r |
| 142-82-5 | Heptane | 0.398 | | 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 | 3.95 | | 0.266 | 0.266 | r |
| 591-78-6 | 2-Hexanone(MBK) | 0.244 | U | 0.244 | 0.244 | r |
| 127-18-4 | Tetrachloroethene | 16.3 | | 0.037 | 0.037 | r |
| 108-90-7 | Chlorobenzene | 0.217 | U | 0.217 | 0.217 | r |
| 100-41-4 | Ethylbenzene | 0.566 | | 0.230 | 0.230 | r |
| 179601-23-1 | m,p-Xylene | 0.816 | | 0.230 | 0.230 | r |
| 100-42-5 | Styrene | 0.257 | | 0.235 | 0.235 | r |
| 95-47-6 | o-Xylene | 0.349 | | 0.230 | 0.230 | r |
| 98-82-8 | Isopropylbenzene | 0.204 | U | 0.204 | 0.204 | r |
| 622-96-8 | 4-Ethyltoluene | 0.209 | | 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 | 0.230 | | 0.204 | 0.204 | r |

FORM I AIR

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

AIR ANALYSIS DATA SHEET

CLIENT ID: SS-6

Client: GC-ENV Lab: Phoenix Env. Labs

SDG No.: GCH92051 Lab Sample ID: CH92056

Canister: 28582 Lab File ID: 0405_46.D

Instrument: CHEM24 Column: RTX-VMS Date Received: 04/05/21

Purge Volume 200 (cc) Date Analyzed: 04/06/21

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

| CAS NO. | COMPOUND | CONC. | Q | MDL | PQL | R |
|---|---|---|---|---|---|---|
| 76-14-2 | 1,2-Dichlorotetrafluoroethane(sim) | 0.143 | U | 0.143 | 0.143 | r |
| 75-01-4 | Vinyl Chloride(sim) | 0.078 | U | 0.078 | 0.078 | r |
| 74-83-9 | Bromomethane(sim) | 0.258 | U | 0.258 | 0.258 | r |
| 56-23-5 | Carbon Tetrachloride(sim) | 0.079 | | 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 |
| 10061-01-5 | cis-1,3-Dichloropropene(sim) | 0.221 | U | 0.221 | 0.221 | r |
| 79-00-5 | 1,1,2-Trichloroethane(sim) | 0.183 | U | 0.183 | 0.183 | r |
| 124-48-1 | Dibromochloromethane(sim) | 0.118 | U | 0.118 | 0.118 | r |
| 106-93-4 | 1,2-Dibromoethane(EDB)(sim) | 0.130 | U | 0.130 | 0.130 | r |
| 75-25-2 | Bromoform(sim) | 0.097 | U | 0.097 | 0.097 | r |
| 630-20-6 | 1,1,1,2-Tetrachloroethane(sim) | 0.146 | U | 0.146 | 0.146 | r |
| 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 |
| | | | | | | |
| | | | | | | |
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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:\AIR2021\CHEM24\04APR\05\
Data File : 0405_46.D
Acq On : 6 Apr 2021 6:56 pm
Operator : Keith
Client ID : SS-6
Lab ID : CH92056
ALS Vial : 44 Sample Multiplier: 1

Quant Time: Apr 07 08:19:44 2021
Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 26 09:02:26 2021
Response via : Initial Calibration

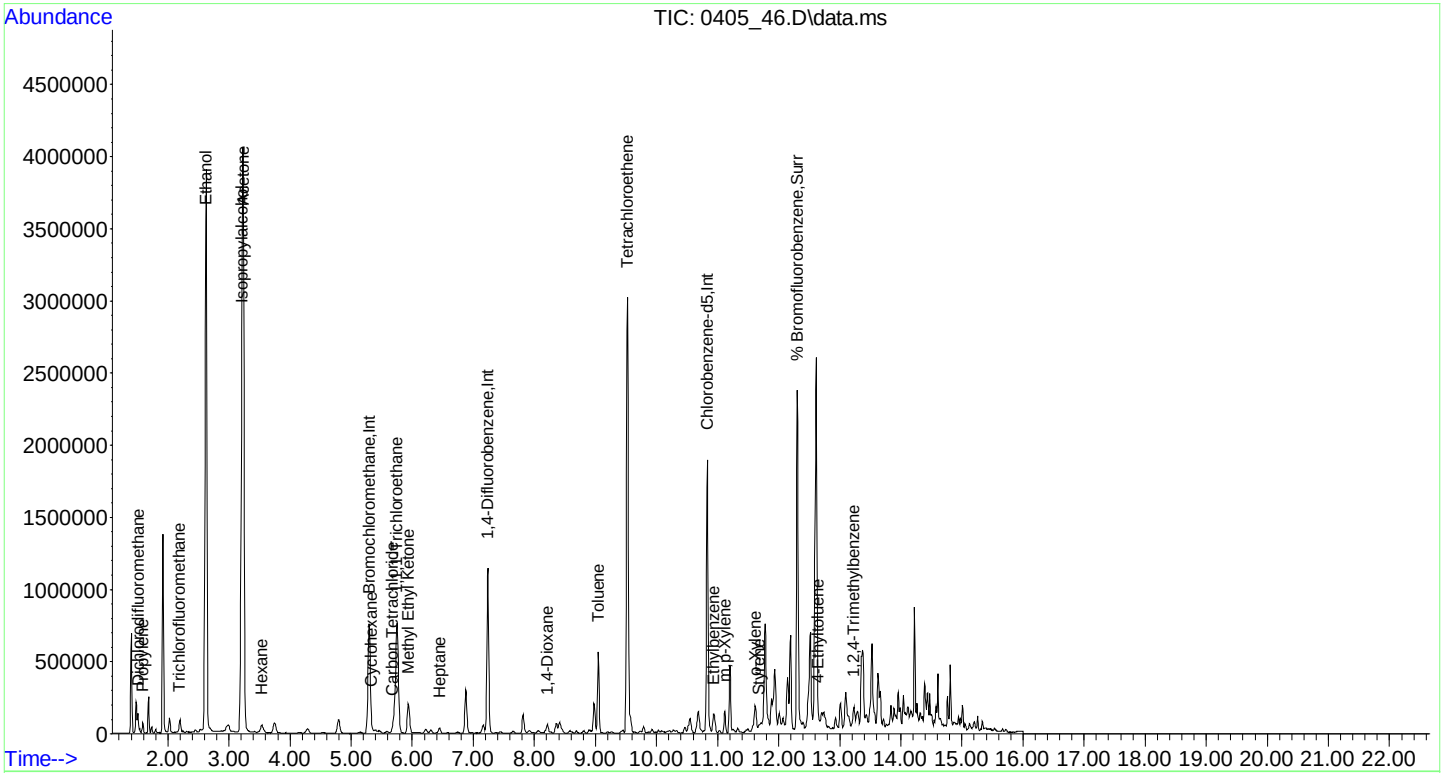
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Bromochloromethane | 5.296 | 130 | 314525 | 10.000 | ng | | 0.03 |
| 36) 1,4-Difluorobenzene | 7.240 | 114 | 1023100 | 10.000 | ng | | 0.02 |
| 53) Chlorobenzene-d5 | 10.831 | 82 | 472386 | 10.000 | ng | | 0.02 |
| 80) Bromochloromethane(sim) | 5.291 | 130 | 329178 | 10.000 | ng | # | 0.02 |
| 95) 1,4-Difluorobenzene(sim) | 7.240 | 114 | 1023100 | 10.000 | ng | | 0.02 |
| 105) Chlorobenzene-d5(sim) | 10.831 | 82 | 472386 | 10.000 | ng | | 0.02 |
| System Monitoring Compounds | | | | | | | |
| 62) % Bromofluorobenzene | 12.304 | 95 | 657950 | 10.042 | ppbv | | 0.00 |
| Spiked Amount 10.000 | Range 70 - 130 | | Recovery = 100.40% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) Propylene | 1.588 | 41 | 22397 | 0.715 | ppbv | | 91 |
| 3) Dichlorodifluoromethane | 1.512 | 85 | 22765 | 0.396 | ppbv | | 97 |
| 10) Ethanol | 2.629 | 45 | 4689625 | 335.582 | ppbv | | 96 |
| 12) Acetone | 3.231 | 43 | 5540448 | 68.524 | ppbv | | 98 |
| 13) Trichlorofluoromethane | 2.191 | 101 | 18482 | 0.229 | ppbv# | | 97 |
| 14) Isopropylalcohol | 3.210 | 45 | 2763560 | 38.542 | ppbv# | | 10 |
| 25) Methyl Ethyl Ketone | 5.937 | 43 | 336813 | 4.040 | ppbv | | 99 |
| 27) Hexane | 3.539 | 57 | 28931 | 0.515 | ppbv | | 87 |
| 32) 1,1,1-Trichloroethane | 5.750 | 97 | 715408 | 10.919 | ppbv | | 93 |
| 34) Carbon Tetrachloride | 5.678 | 117 | 4498 | 0.060 | ppbv | | 91 |
| 35) Cyclohexane | 5.332 | 56 | 19793 | 0.449 | ppbv | | 96 |
| 41) 1,4-Dioxane | 8.211 | 88 | 20111 | 1.456 | ppbv# | | 96 |
| 43) Heptane | 6.446 | 43 | 29072 | 0.398 | ppbv | | 91 |
| 48) Toluene | 9.048 | 91 | 329564 | 3.953 | ppbv | | 100 |
| 52) Tetrachloroethene | 9.525 | 166 | 813856 | 16.310 | ppbv | | 99 |
| 56) Ethylbenzene | 10.934 | 91 | 67120 | 0.566 | ppbv | | 99 |
| 57) m,p-Xylene | 11.119 | 91 | 72749 | 0.816 | ppbv | | 100 |
| 59) Styrene | 11.675 | 104 | 16450 | 0.257 | ppbv | | 96 |
| 61) o-Xylene | 11.613 | 91 | 31080 | 0.349 | ppbv | | 96 |
| 66) 4-Ethyltoluene | 12.648 | 105 | 27578 | 0.209 | ppbv# | | 73 |
| 68) 1,2,4-Trimethylbenzene | 13.232 | 105 | 23616 | 0.230 | ppbv# | | 95 |
| 84] Trichlorofluoromethane... | 2.194 | 101 | 19298 | 0.206 | ppbv | | 99 |
| 85] 1,1,1-Trichloroethane(... | 5.750 | 97 | 715566 | 10.312 | ppbv# | | 93 |
| 87] Carbon Tetrachloride(sim) | 5.702 | 117 | 6314m | 0.079 | ppbv | | 99 |
| 99] 1,4-Dioxane(sim) | 8.211 | 88 | 20111 | 1.458 | ppbv | | 96 |
| 104] Tetrachloroethene(sim) | 9.528 | 166 | 854177 | 15.965 | ppbv | | 99 |
| 108] Ethylbenzene(sim) | 10.937 | 91 | 70804 | 0.548 | ppb | | 100 |
| 109] m,p-Xylene(sim) | 11.119 | 91 | 72799 | 0.828 | ppbv | | 99 |
| 110] o-Xylene(sim) | 11.616 | 91 | 31503 | 0.342 | ppb | # | 95 |

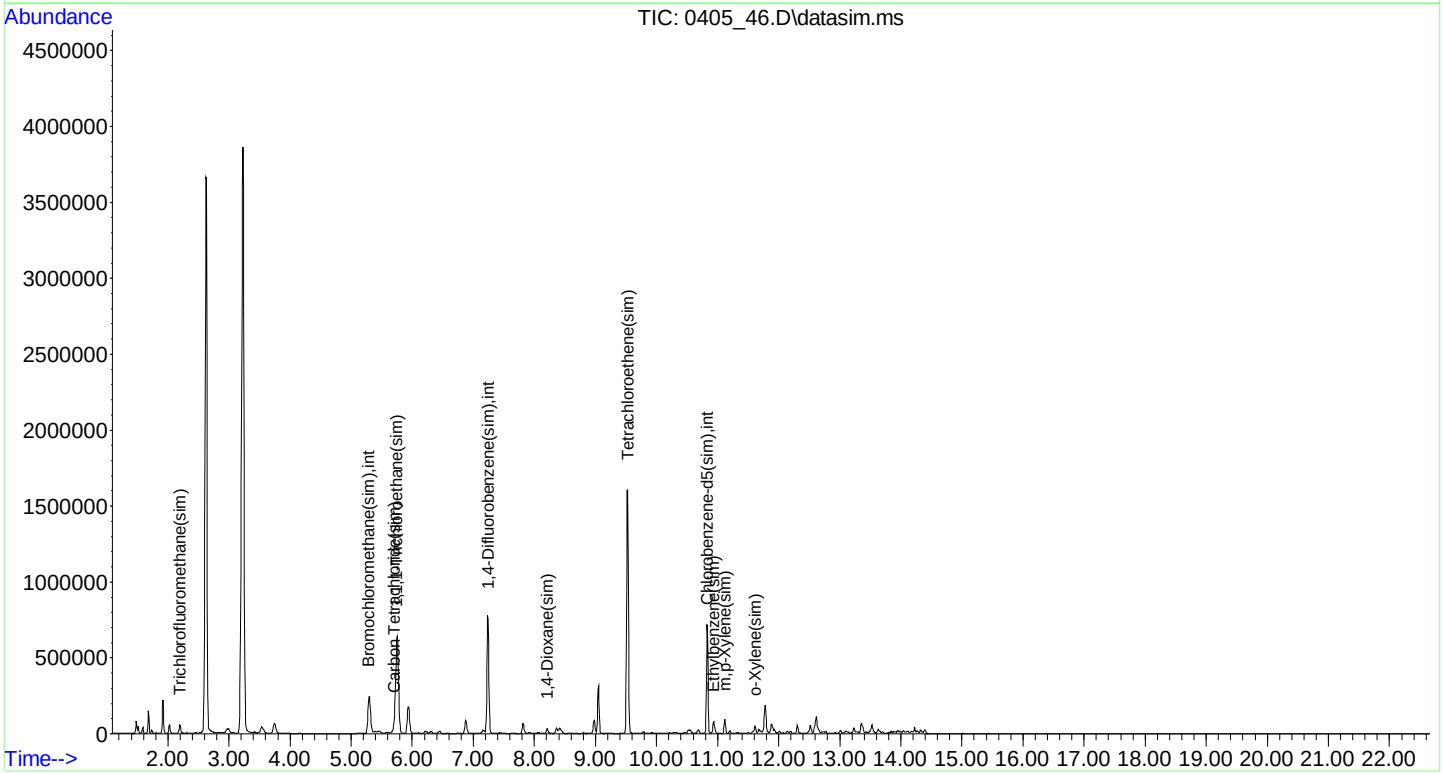
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

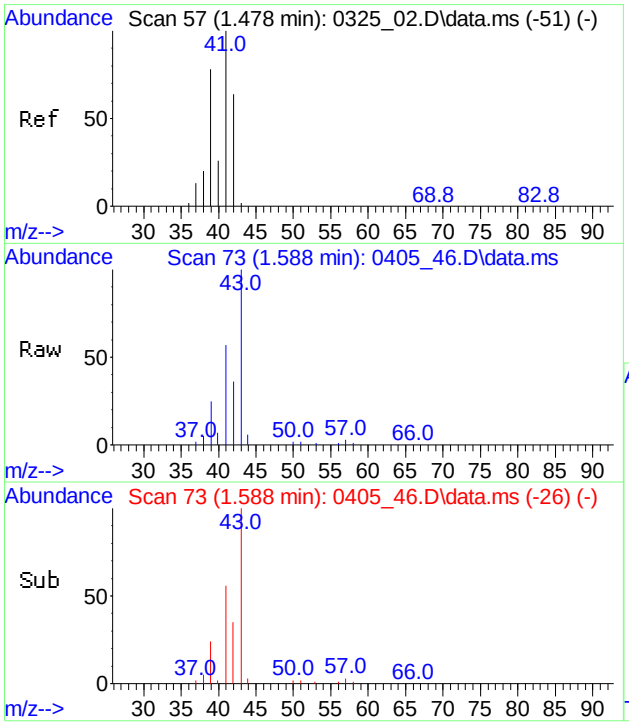
Quantitation Report (QT Reviewed)

Data Path : H:\AIR2021\CHEM24\04APR\05\
Data File : 0405_46.D
Acq On : 6 Apr 2021 6:56 pm
Operator : Keith
Client ID : SS-6
Lab ID : CH92056
ALS Vial : 44 Sample Multiplier: 1

Quant Time: Apr 07 08:19:44 2021
Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 26 09:02:26 2021
Response via : Initial Calibration



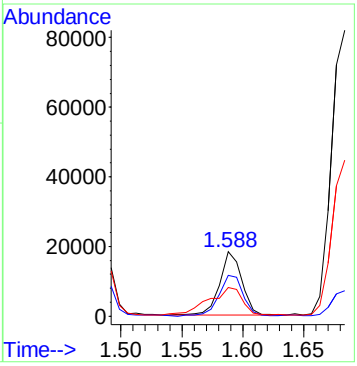



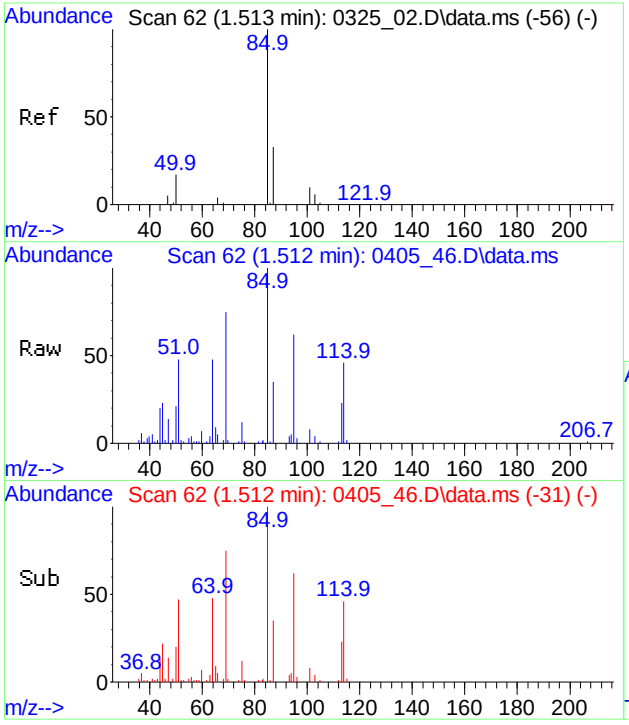



#2
Propylene
Conc: 8$ 0.715 ppbv
RT: 1.588 min Scan# 73
Delta R.T. 0.124 min
Lab File: 0405_46.D
Acq: 6 Apr 2021 6:56 pm

Tgt Ion: 41 Resp: 22397

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 71.3 | 52.0 | 78.0 |
| 39 | 68.3 | 61.8 | 92.6 |

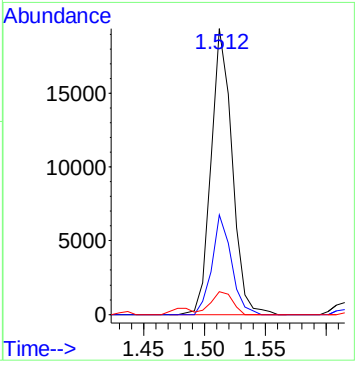


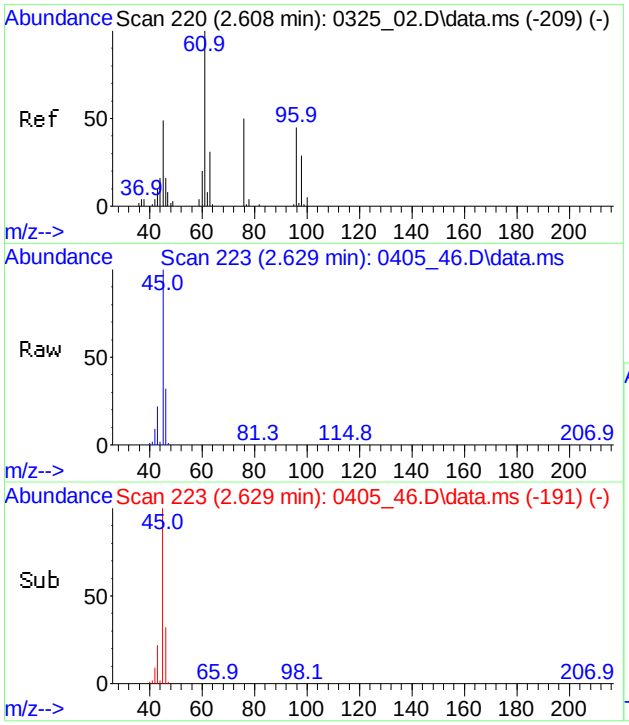




#3
Dichlorodifluoromethane
Conc: 8$ 0.396 ppbv
RT: 1.512 min Scan# 62
Delta R.T. 0.013 min
Lab File: 0405_46.D
Acq: 6 Apr 2021 6:56 pm

Tgt Ion: 85 Resp: 22765

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 32.2 | 26.6 | 40.0 |
| 101 | 8.1 | 7.9 | 11.9 |

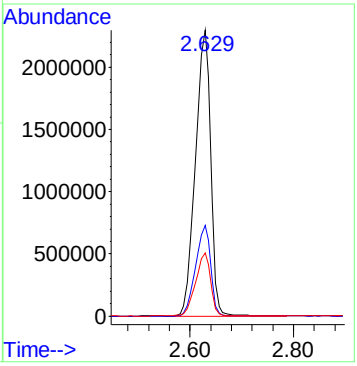


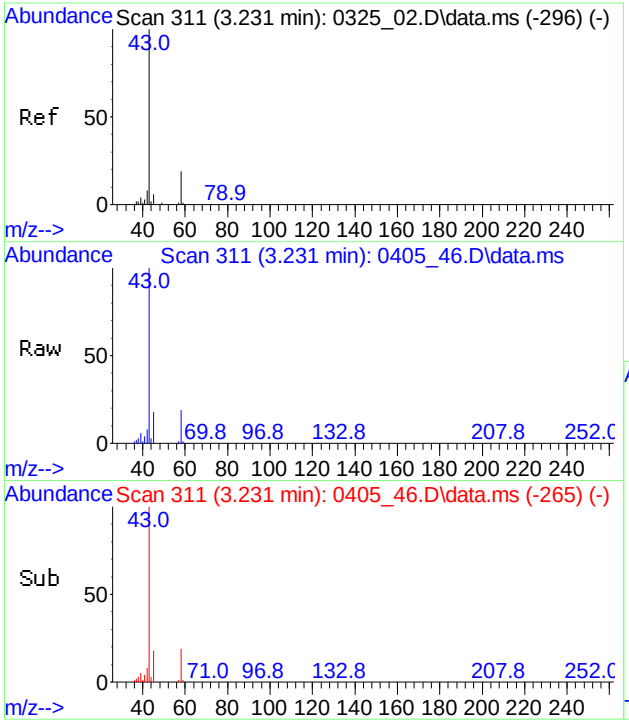



#10
Ethanol
Conc: 8$ 335.582 ppbv
RT: 2.629 min Scan# 223
Delta R.T. 0.034 min
Lab File: 0405_46.D
Acq: 6 Apr 2021 6:56 pm

Tgt Ion: 45 Resp: 4689625

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 31.4 | 27.8 | 41.6 |
| 43 | 21.9 | 17.3 | 25.9 |

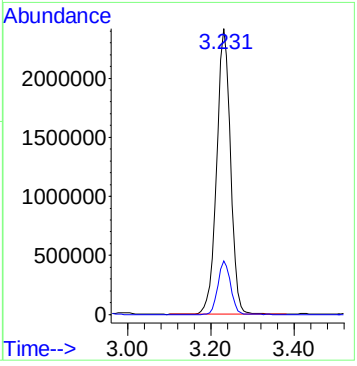


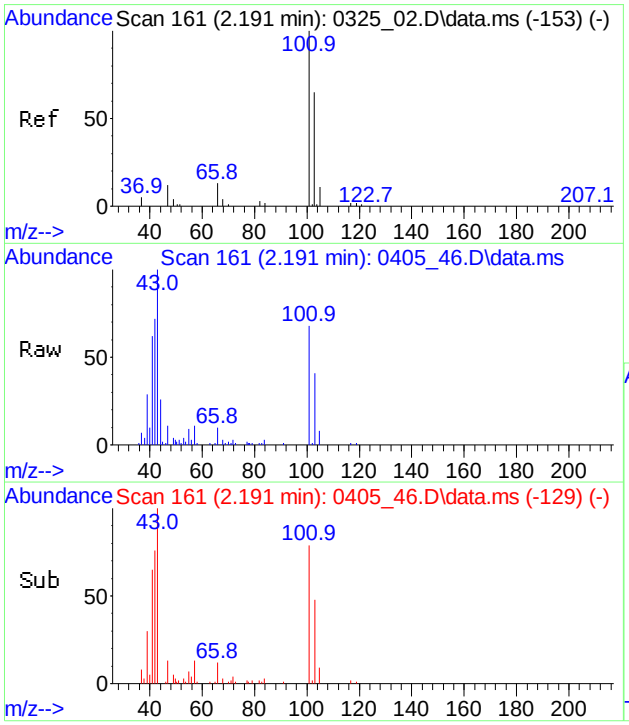




#12
Acetone
Conc: 8$ 68.524 ppbv
RT: 3.231 min Scan# 311
Delta R.T. 0.014 min
Lab File: 0405_46.D
Acq: 6 Apr 2021 6:56 pm

Tgt Ion: 43 Resp: 5540448

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 17.2 | 13.2 | 19.8 |

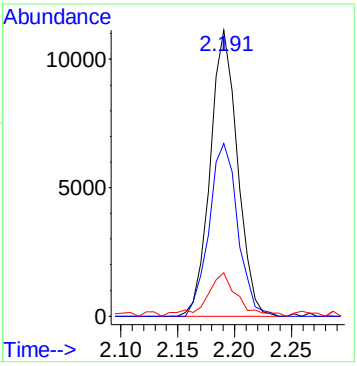


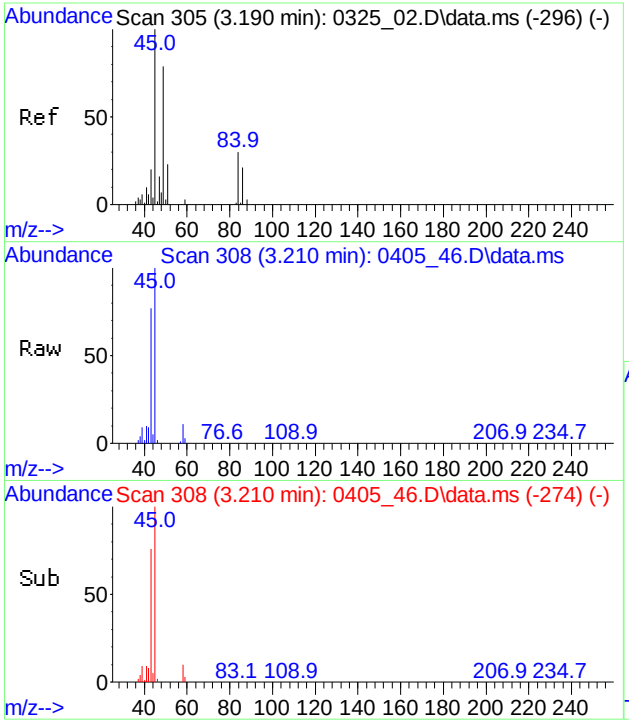



#13
Trichlorofluoromethane
Conc: 8$ 0.229 ppbv
RT: 2.191 min Scan# 161
Delta R.T. 0.021 min
Lab File: 0405_46.D
Acq: 6 Apr 2021 6:56 pm

Tgt Ion:101 Resp: 18482

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 63.4 | 51.5 | 77.3 |
| 66 | 16.6 | 10.6 | 15.8# |

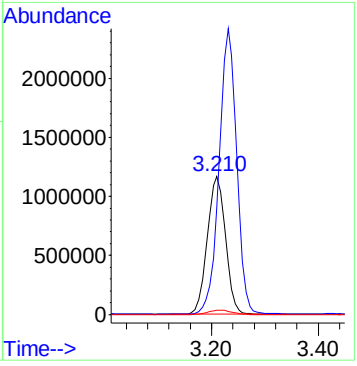


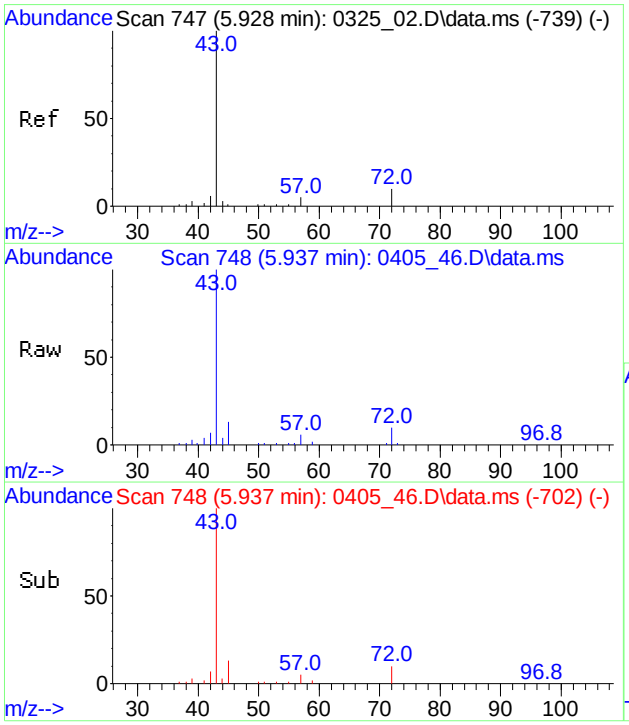




#14
Isopropylalcohol
Conc: 8$ 38.542 ppbv
RT: 3.210 min Scan# 308
Delta R.T. 0.034 min
Lab File: 0405_46.D
Acq: 6 Apr 2021 6:56 pm

Tgt Ion: 45 Resp: 2763560

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 200.4 | 84.1 | 126.1# |
| 59 | 4.0 | 2.6 | 4.0# |

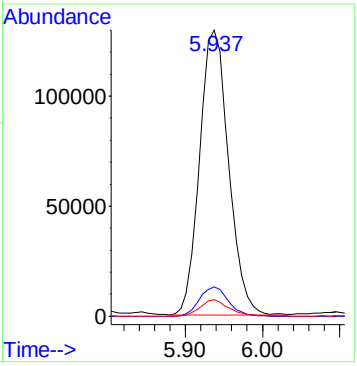


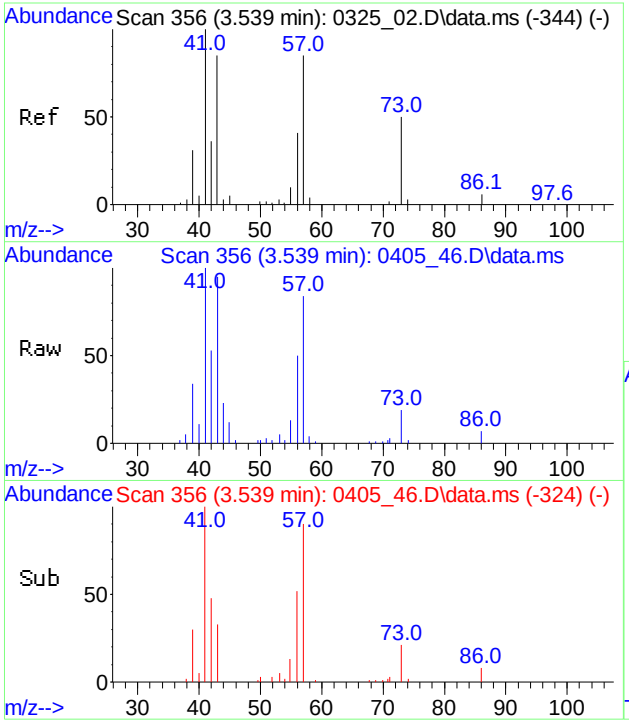



#25
Methyl Ethyl Ketone
Conc: 8$ 4.040 ppbv
RT: 5.937 min Scan# 748
Delta R.T. 0.031 min
Lab File: 0405_46.D
Acq: 6 Apr 2021 6:56 pm

Tgt Ion: 43 Resp: 336813

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 10.1 | 8.5 | 12.7 |
| 57 | 5.6 | 4.2 | 6.4 |

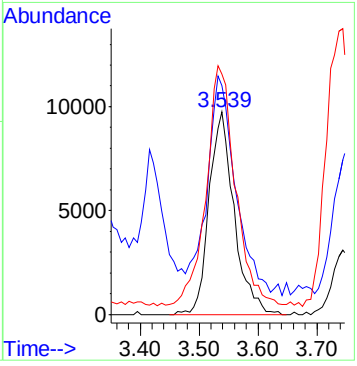


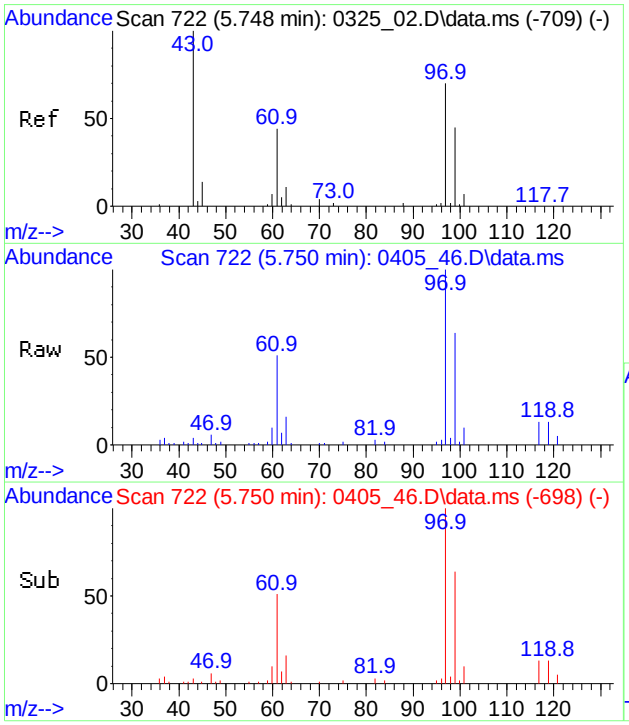




#27
Hexane
Conc: 8$ 0.515 ppbv
RT: 3.539 min Scan# 356
Delta R.T. 0.021 min
Lab File: 0405_46.D
Acq: 6 Apr 2021 6:56 pm

Tgt Ion: 57 Resp: 28931

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 43 | 113.7 | 83.3 | 124.9 |
| 41 | 136.7 | 95.6 | 143.4 |

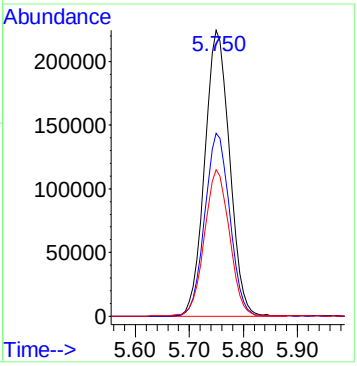


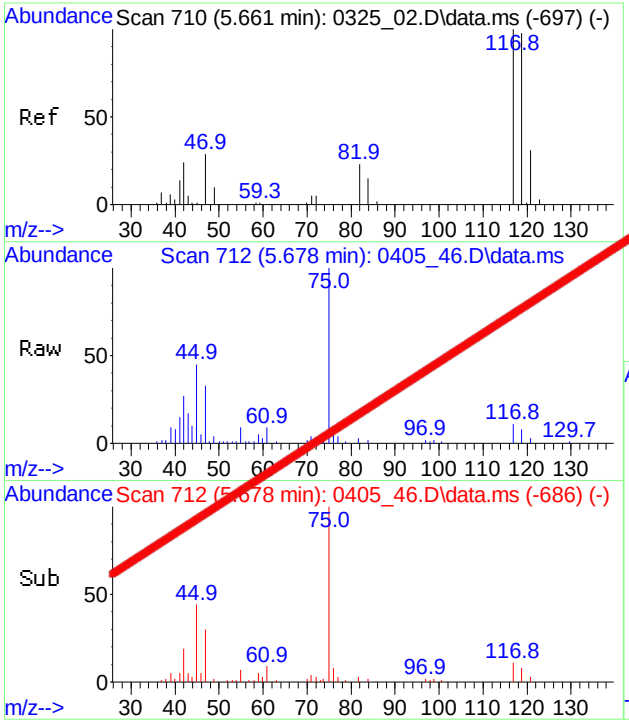



#32
1,1,1-Trichloroethane
Conc: 8$ 10.919 ppbv
RT: 5.750 min Scan# 722
Delta R.T. 0.024 min
Lab File: 0405_46.D
Acq: 6 Apr 2021 6:56 pm

Tgt Ion: 97 Resp: 715408

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 64.1 | 51.3 | 76.9 |
| 61 | 51.7 | 50.1 | 75.1 |

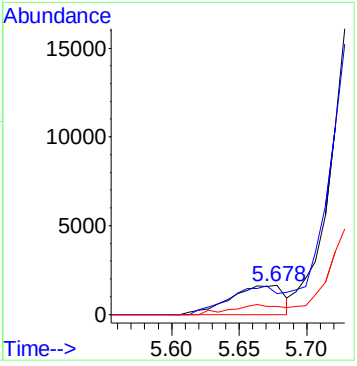


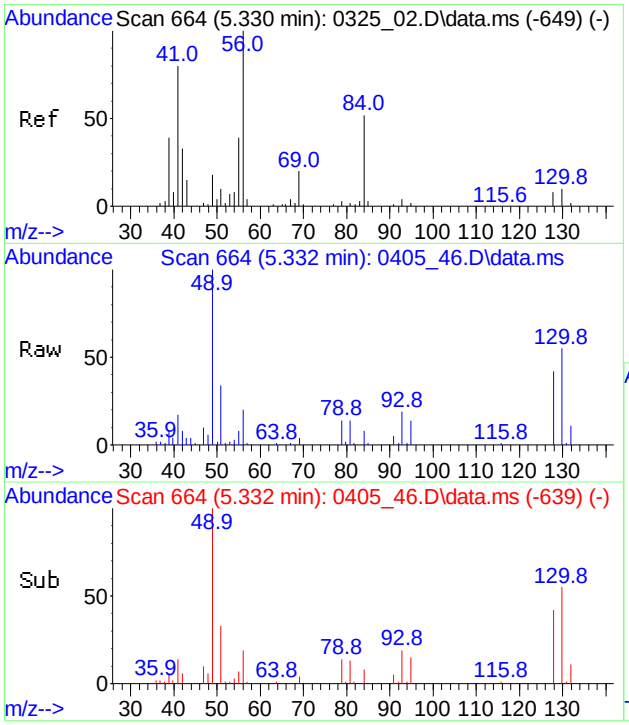




#34
Carbon Tetrachloride
Conc: 8$ Below Cal
RT: 5.678 min Scan# 712
Delta R.T. 0.039 min
Lab File: 0405_46.D
Acq: 6 Apr 2021 6:56 pm

Tgt Ion:117 Resp: 4498

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 86.7 | 78.0 | 118.0 |
| 121 | 31.5 | 12.1 | 52.1 |

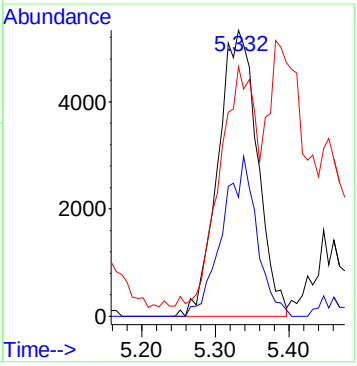


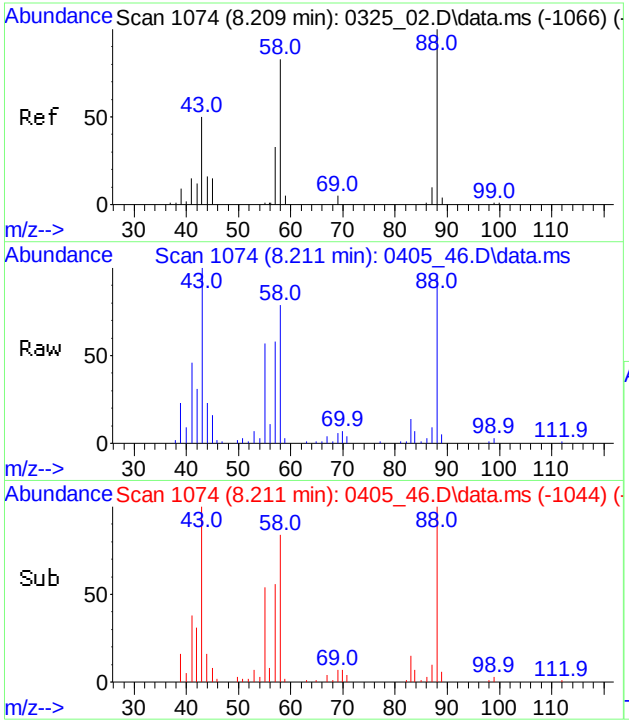



#35
Cyclohexane
Conc: 8$ 0.449 ppbv
RT: 5.332 min Scan# 664
Delta R.T. 0.031 min
Lab File: 0405_46.D
Acq: 6 Apr 2021 6:56 pm

Tgt Ion: 56 Resp: 19793

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 84 | 48.6 | 42.2 | 63.4 |
| 41 | 77.5 | 64.1 | 96.1 |

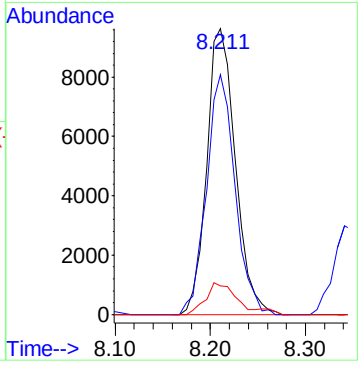


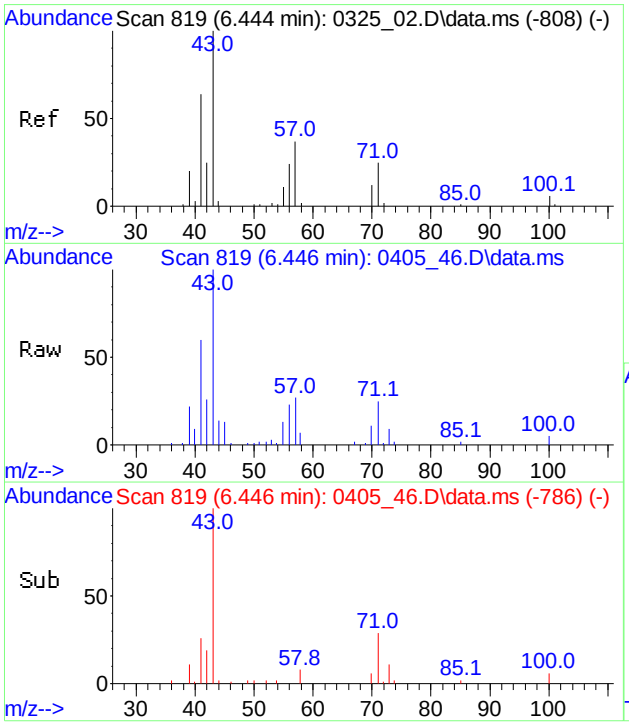




#41
1,4-Dioxane
Conc: 8$ 1.456 ppbv
RT: 8.211 min Scan# 1074
Delta R.T. 0.024 min
Lab File: 0405_46.D
Acq: 6 Apr 2021 6:56 pm

Tgt Ion: 88 Resp: 20111

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 58 | 83.8 | 69.8 | 104.8 |
| 87 | 11.5 | 7.5 | 11.3# |

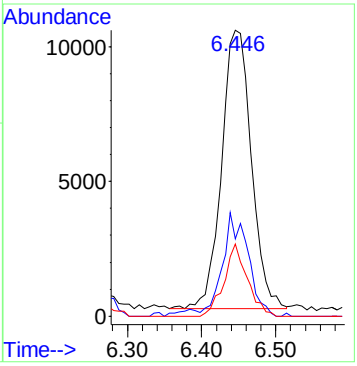


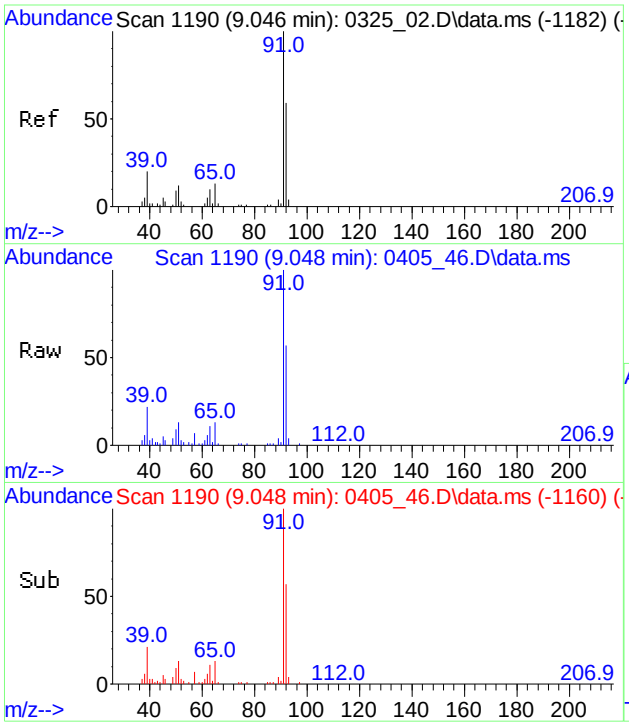



#43
Heptane
Conc: 8$ 0.398 ppbv
RT: 6.446 min Scan# 819
Delta R.T. 0.023 min
Lab File: 0405_46.D
Acq: 6 Apr 2021 6:56 pm

Tgt Ion: 43 Resp: 29072

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 57 | 31.5 | 29.5 | 44.3 |
| 71 | 20.2 | 19.8 | 29.8 |

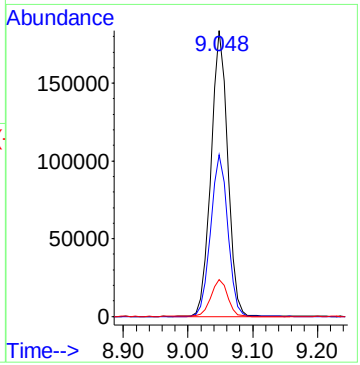


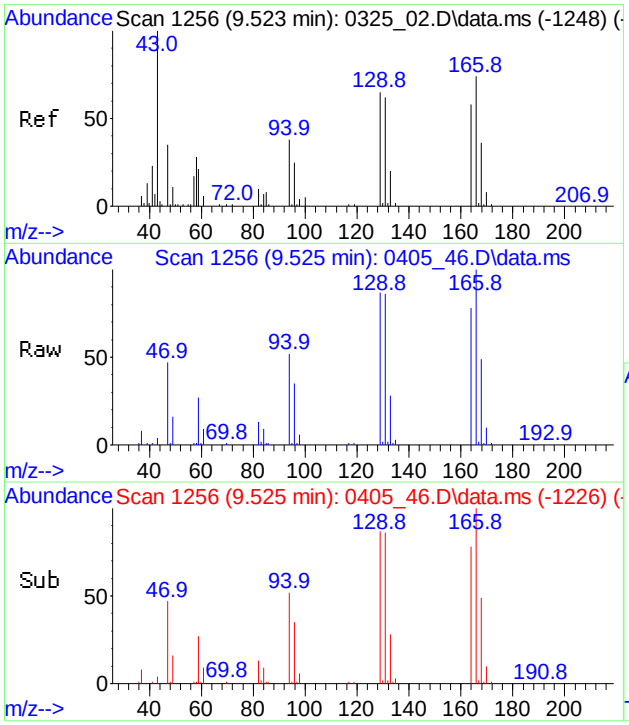




#48
Toluene
Conc: 8$ 3.953 ppbv
RT: 9.048 min Scan# 1190
Delta R.T. 0.016 min
Lab File: 0405_46.D
Acq: 6 Apr 2021 6:56 pm

Tgt Ion: 91 Resp: 329564

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 57.9 | 46.3 | 69.5 |
| 65 | 12.9 | 10.1 | 15.1 |

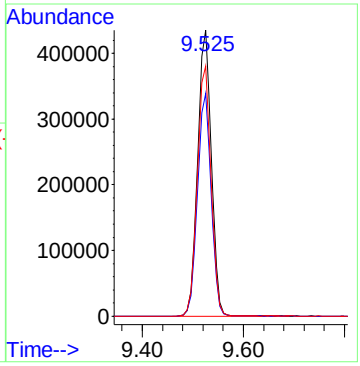


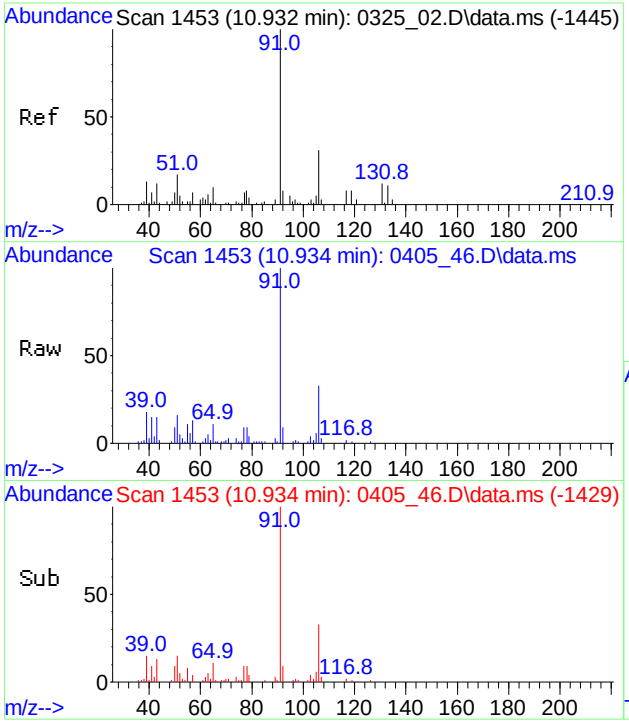



#52
Tetrachloroethene
Conc: 8$ 16.310 ppbv
RT: 9.525 min Scan# 1256
Delta R.T. 0.017 min
Lab File: 0405_46.D
Acq: 6 Apr 2021 6:56 pm

Tgt Ion:166 Resp: 813856

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 164 | 77.9 | 62.2 | 93.4 |
| 129 | 87.7 | 68.3 | 102.5 |

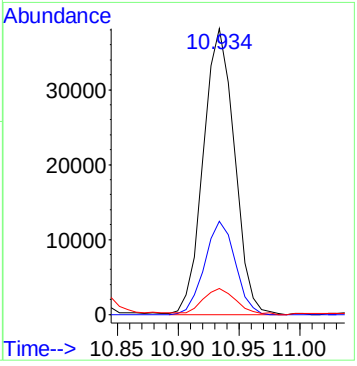


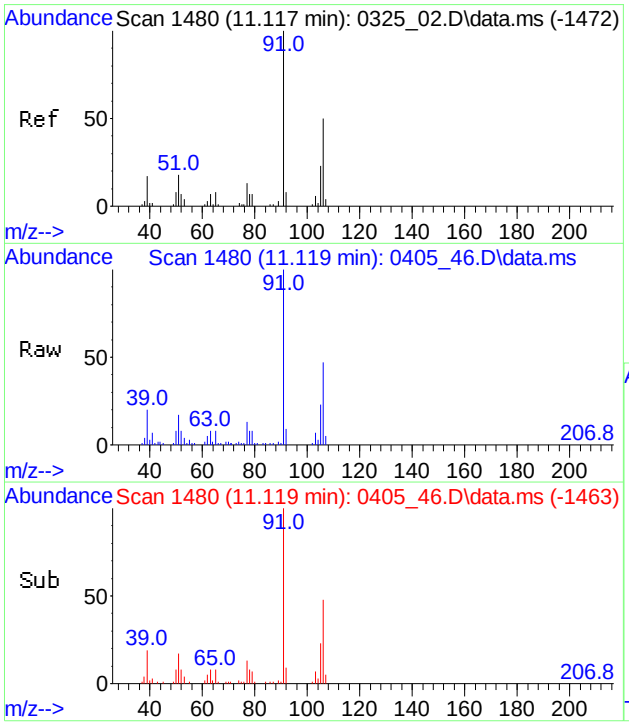




#56
Ethylbenzene
Conc: 8$ 0.566 ppbv
RT: 10.934 min Scan# 1453
Delta R.T. 0.016 min
Lab File: 0405_46.D
Acq: 6 Apr 2021 6:56 pm

Tgt Ion: 91 Resp: 67120

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 32.1 | 11.4 | 51.4 |
| 77 | 9.6 | 0.0 | 28.7 |

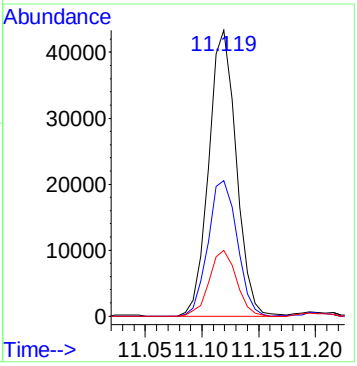


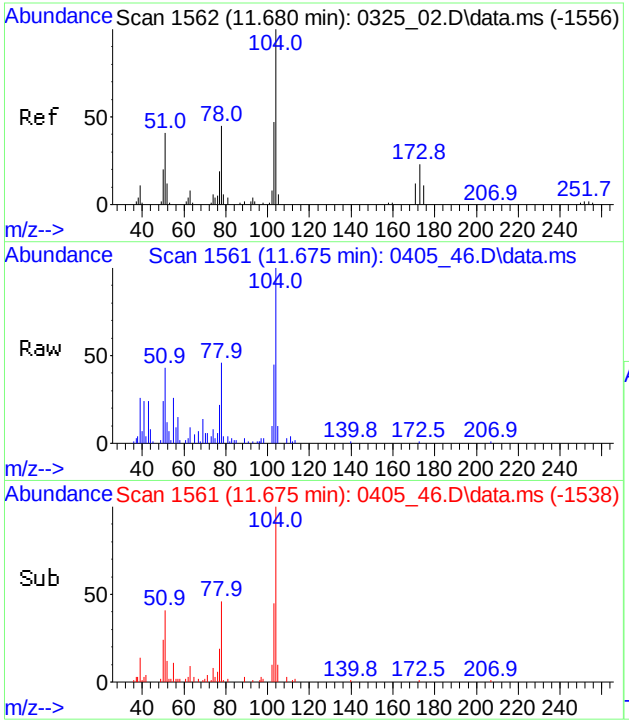



#57
m,p-Xylene
Conc: 8$ 0.816 ppbv
RT: 11.119 min Scan# 1480
Delta R.T. 0.015 min
Lab File: 0405_46.D
Acq: 6 Apr 2021 6:56 pm

Tgt Ion: 91 Resp: 72749

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 50.2 | 39.8 | 59.8 |
| 105 | 22.9 | 18.2 | 27.4 |

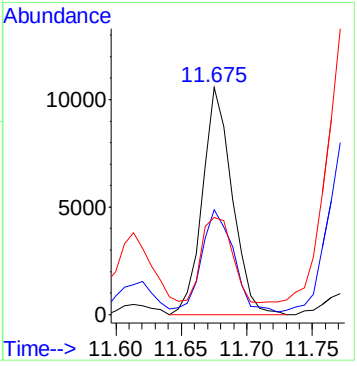


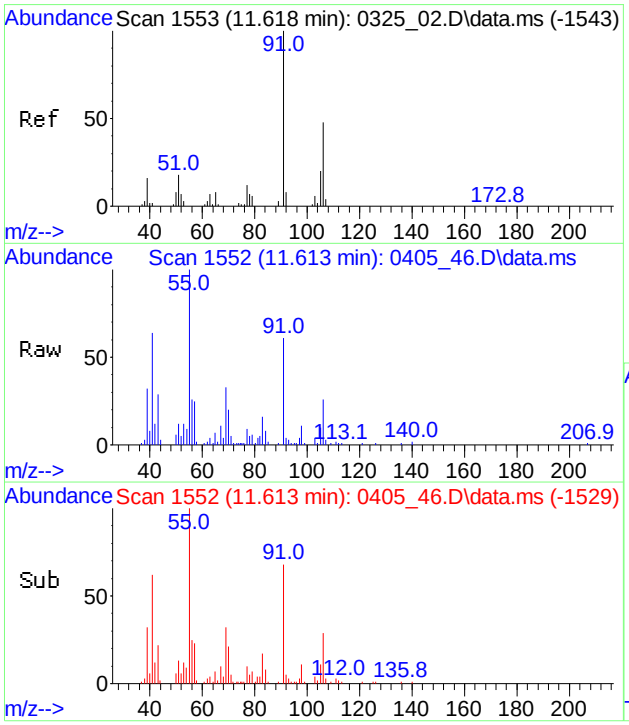




#59
Styrene
Conc: 8$ 0.257 ppbv
RT: 11.675 min Scan# 1561
Delta R.T. 0.009 min
Lab File: 0405_46.D
Acq: 6 Apr 2021 6:56 pm

Tgt Ion:104 Resp: 16450

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 48.2 | 36.2 | 54.4 |
| 51 | 38.6 | 33.0 | 49.6 |

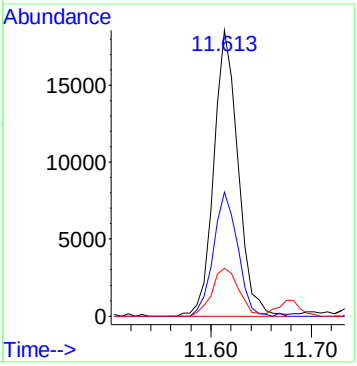


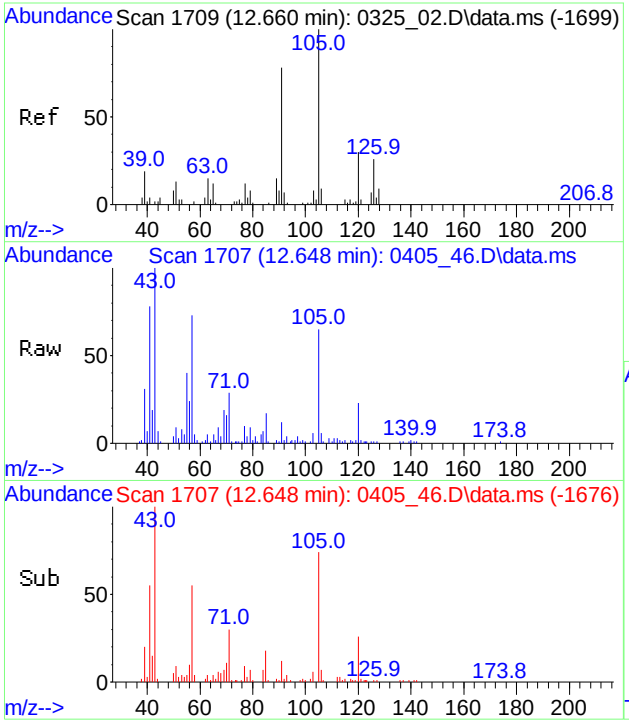



#61
o-Xylene
Conc: 8$ 0.349 ppbv
RT: 11.613 min Scan# 1552
Delta R.T. 0.009 min
Lab File: 0405_46.D
Acq: 6 Apr 2021 6:56 pm

Tgt Ion: 91 Resp: 31080

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 43.2 | 37.5 | 56.3 |
| 105 | 18.8 | 15.1 | 22.7 |

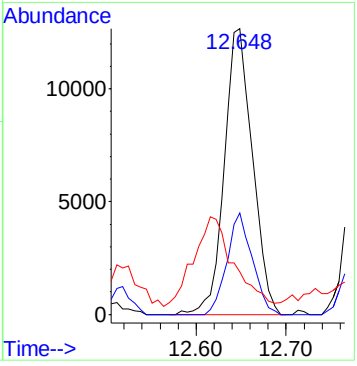


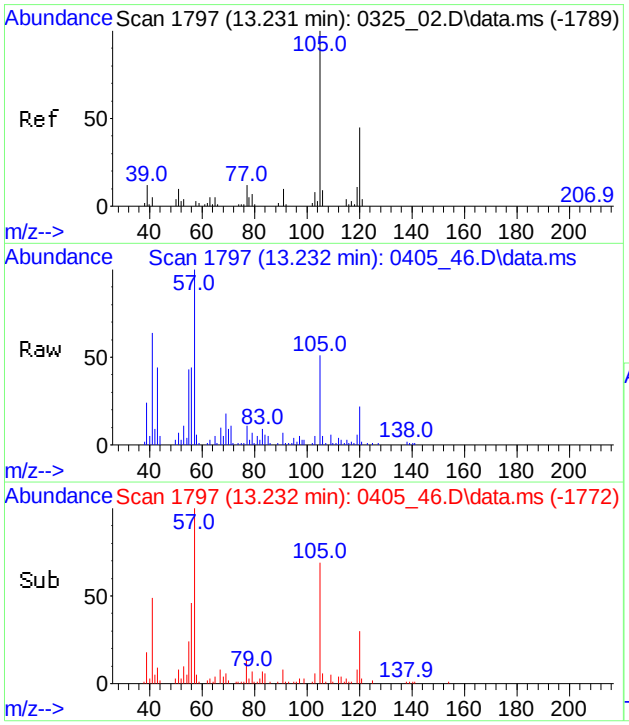




#66
4-Ethyltoluene
Conc: 8$ 0.209 ppbv
RT: 12.648 min Scan# 1707
Delta R.T. 0.002 min
Lab File: 0405_46.D
Acq: 6 Apr 2021 6:56 pm

Tgt Ion:105 Resp: 27578

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 31.9 | 24.0 | 36.0 |
| 77 | 45.1 | 9.2 | 13.8# |

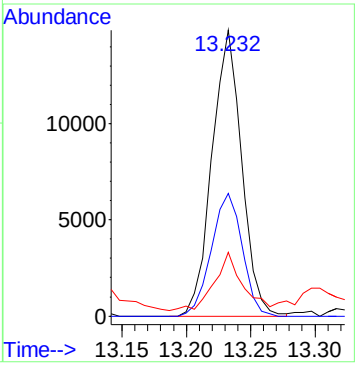


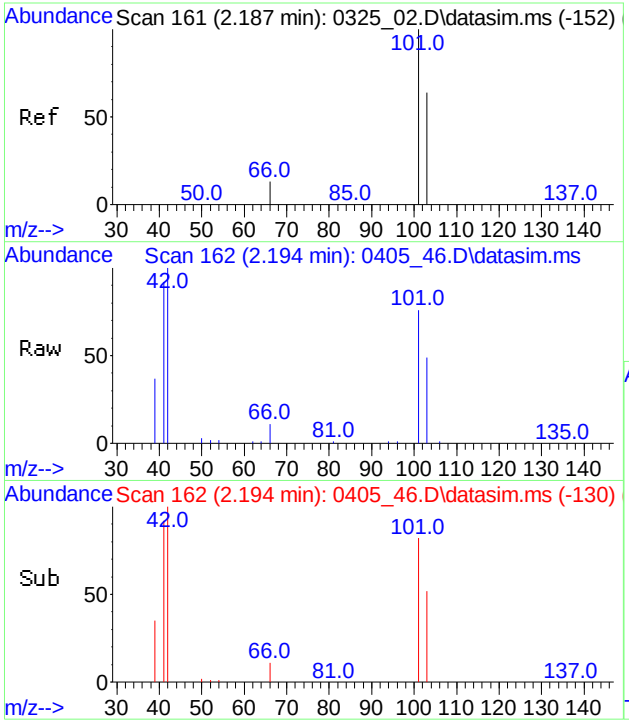



#68
1,2,4-Trimethylbenzene
Conc: 8$ 0.230 ppbv
RT: 13.232 min Scan# 1797
Delta R.T. 0.015 min
Lab File: 0405_46.D
Acq: 6 Apr 2021 6:56 pm

Tgt Ion:105 Resp: 23616

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 44.6 | 36.7 | 55.1 |
| 77 | 19.4 | 10.0 | 15.0# |

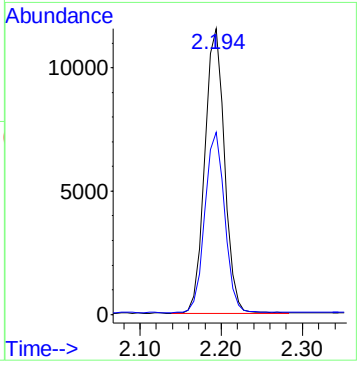


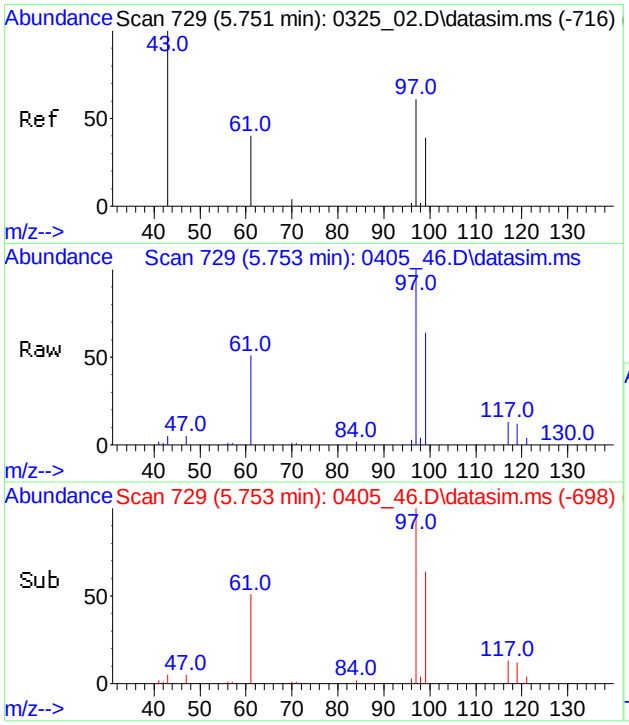




#84
Trichlorofluoromethane(sim)
Conc: 8$ 0.206 ppbv
RT: 2.194 min Scan# 162
Delta R.T. 0.021 min
Lab File: 0405_46.D
Acq: 6 Apr 2021 6:56 pm

Tgt Ion:101 Resp: 19298

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 64.0 | 51.9 | 77.9 |

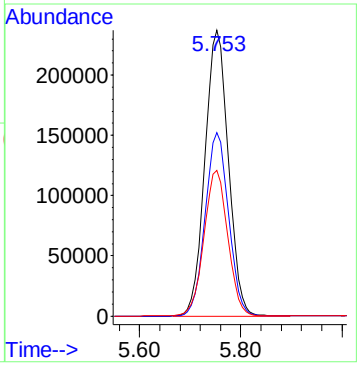


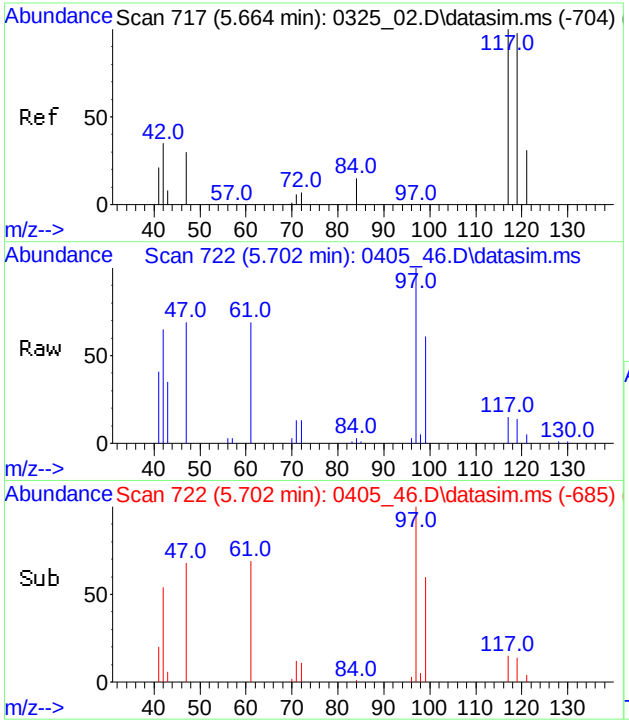



#85
1,1,1-Trichloroethane(sim)
Conc: 8$ 10.312 ppbv
RT: 5.750 min Scan# 729
Delta R.T. 0.024 min
Lab File: 0405_46.D
Acq: 6 Apr 2021 6:56 pm

Tgt Ion: 97 Resp: 715566

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 64.1 | 64.0 | 64.0# |
| 61 | 51.7 | 50.0 | 75.0 |

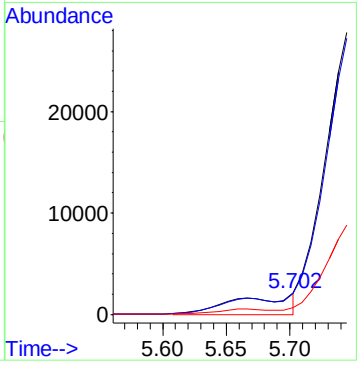


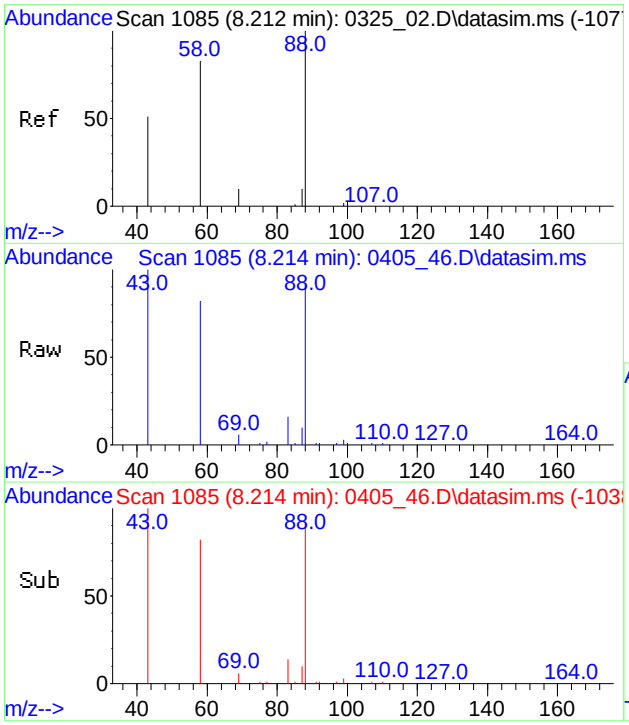




#87
Carbon Tetrachloride(sim)
Conc: 8$ 0.079 ppbv
RT: 5.702 min Scan# 722
Delta R.T. 0.063 min
Lab File: 0405_46.D
Acq: 6 Apr 2021 6:56 pm

Tgt Ion:117 Resp: 6314

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 1445.2 | 78.4 | 117.6# |
| 121 | 485.7 | 25.7 | 38.5# |

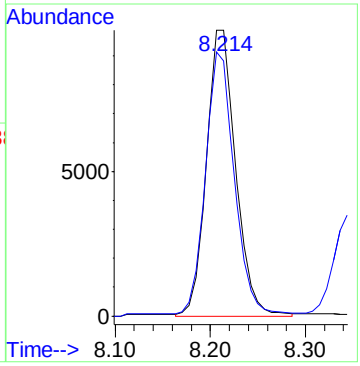


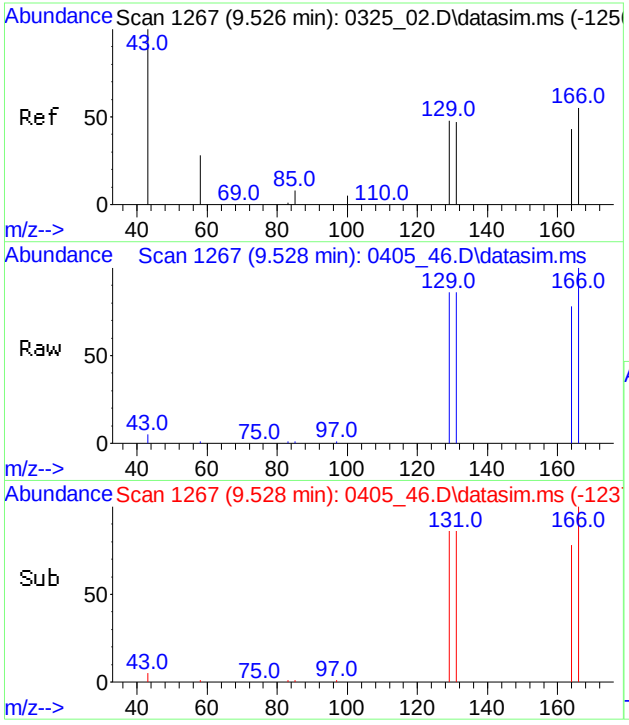



#99
1,4-Dioxane(sim)
Conc: 8$ 1.458 ppbv
RT: 8.211 min Scan# 1085
Delta R.T. 0.024 min
Lab File: 0405_46.D
Acq: 6 Apr 2021 6:56 pm

Tgt Ion: 88 Resp: 20111

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 58 | 83.8 | 83.8 | 90.8 |

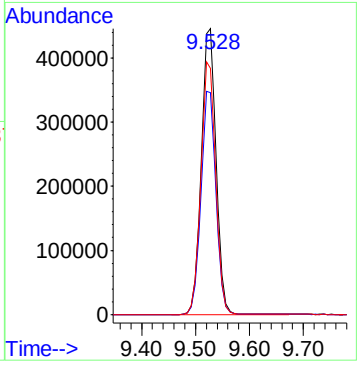


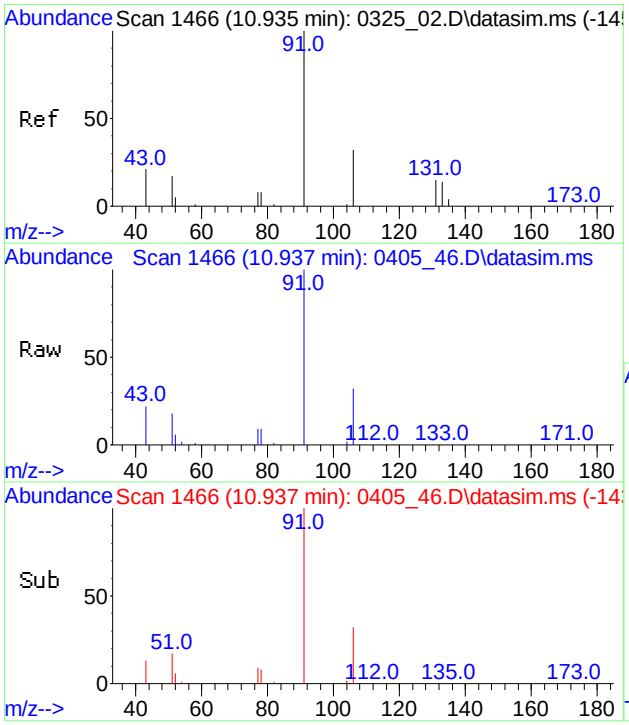




#104
Tetrachloroethene(sim)
Conc: 8$ 15.965 ppbv
RT: 9.528 min Scan# 1267
Delta R.T. 0.017 min
Lab File: 0405_46.D
Acq: 6 Apr 2021 6:56 pm

Tgt Ion:166 Resp: 854177

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 164 | 78.8 | 58.4 | 98.4 |
| 129 | 88.5 | 66.6 | 106.6 |

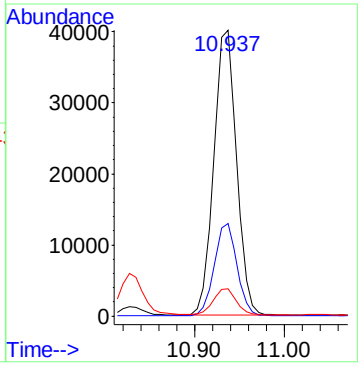


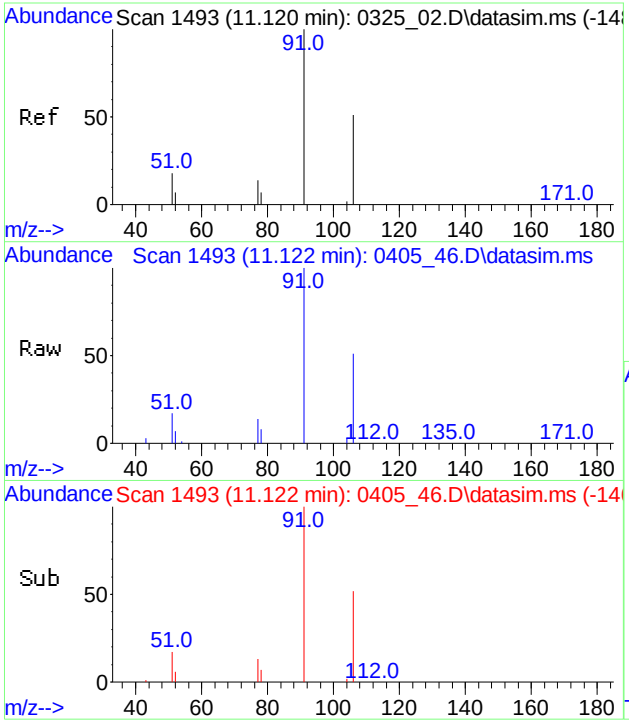



#108
Ethylbenzene(sim)
Conc: 8$ 0.548 ppb
RT: 10.937 min Scan# 1466
Delta R.T. 0.016 min
Lab File: 0405_46.D
Acq: 6 Apr 2021 6:56 pm

Tgt Ion: 91 Resp: 70804

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 32.3 | 25.8 | 38.8 |
| 77 | 9.4 | 7.0 | 10.6 |

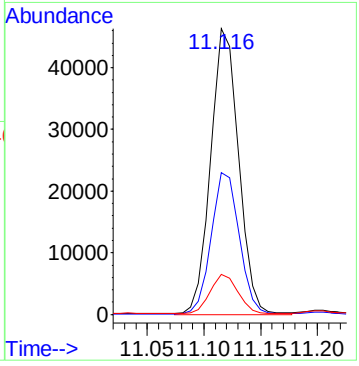


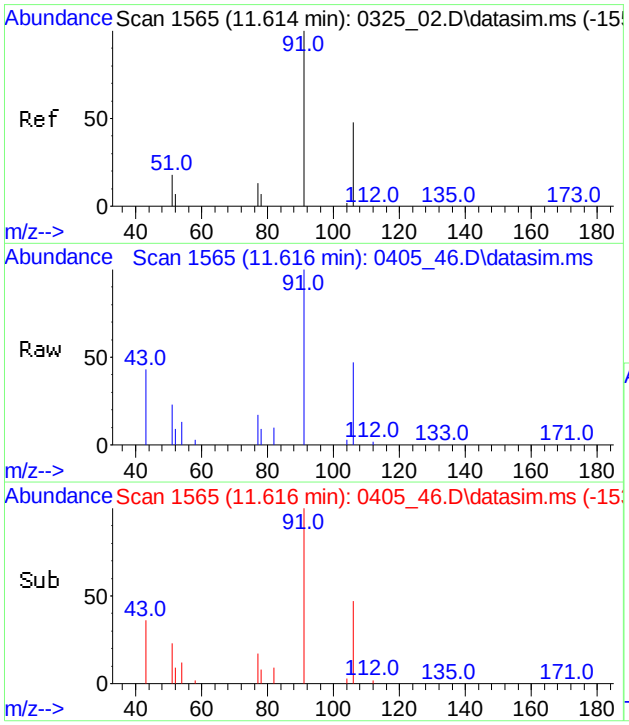




#109
m,p-Xylene(sim)
Conc: 8$ 0.828 ppbv
RT: 11.119 min Scan# 1493
Delta R.T. 0.015 min
Lab File: 0405_46.D
Acq: 6 Apr 2021 6:56 pm

Tgt Ion: 91 Resp: 72799

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 50.2 | 44.8 | 54.8 |
| 77 | 13.5 | 10.5 | 15.7 |

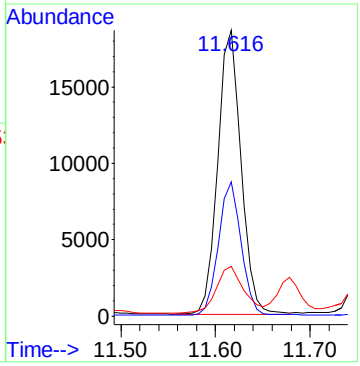





#110
o-Xylene(sim)
Conc: 8$ 0.342 ppb
RT: 11.616 min Scan# 1565
Delta R.T. 0.016 min
Lab File: 0405_46.D
Acq: 6 Apr 2021 6:56 pm

Tgt Ion: 91 Resp: 31503

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 45.7 | 37.6 | 56.4 |
| 77 | 19.4 | 9.8 | 14.8# |



CLIENT ID

AIR ANALYSIS DATA SHEET

SS-6 5X

Client: GC-ENV Lab: Phoenix Env. Labs

SDG No.: GCH92051 Lab Sample ID: CH92056 5X

Canister: 28582 Lab File ID: 0405_23.D

Instrument: CHEM20 Column: RTX-1 60M Date Received: 04/05/21

Purge Volume 200 (cc) Date Analyzed: 04/05/21

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 | |
| 75-71-8 | Dichlorodifluoromethane | 1.01 | U | 1.01 | 1.01 | |
| 64-17-5 | Ethanol | 393 | EDS | 2.66 | 2.66 | r |
| 67-64-1 | Acetone | 95.2 | DS | 2.11 | 2.11 | r |
| 67-63-0 | Isopropylalcohol | 43.6 | X | 2.04 | 2.04 | |
| 78-93-3 | Methyl Ethyl Ketone | 3.46 | X | 1.70 | 1.70 | |
| 110-54-3 | Hexane | 1.42 | U | 1.42 | 1.42 | |
| 71-55-6 | 1,1,1-Trichloroethane | 11.7 | X | 0.917 | 0.917 | |
| 110-82-7 | Cyclohexane | 1.45 | U | 1.45 | 1.45 | |
| 123-91-1 | 1,4-Dioxane | 1.39 | U | 1.39 | 1.39 | |
| 142-82-5 | Heptane | 1.22 | U | 1.22 | 1.22 | |
| 108-88-3 | Toluene | 3.54 | X | 1.33 | 1.33 | |
| 127-18-4 | Tetrachloroethene | 16.7 | X | 0.184 | 0.184 | |
| 100-41-4 | Ethylbenzene | 1.15 | U | 1.15 | 1.15 | |
| 100-42-5 | Styrene | 1.17 | U | 1.17 | 1.17 | |
| 95-47-6 | o-Xylene | 1.15 | U | 1.15 | 1.15 | |
| 622-96-8 | 4-Ethyltoluene | 1.02 | U | 1.02 | 1.02 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | 1.02 | U | 1.02 | 1.02 | |
| 75-69-4 | Trichlorofluoromethane(sim) | 0.890 | U | 0.890 | 0.890 | |
| 56-23-5 | Carbon Tetrachloride(sim) | 0.159 | U | 0.159 | 0.159 | |
| 179601-23-1 | m,p-Xylene(sim) | 1.15 | U | 1.15 | 1.15 | |

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:\AIR2021\CHEM20\04APR\05\
Data File : 0405_23.D
Acq On : 5 Apr 2021 11:20 pm
Operator :
Client ID : SS-6 5X
Lab ID : CH92056 5X
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Apr 06 08:26:46 2021
Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0329.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Mar 29 13:12:48 2021
Response via : Initial Calibration

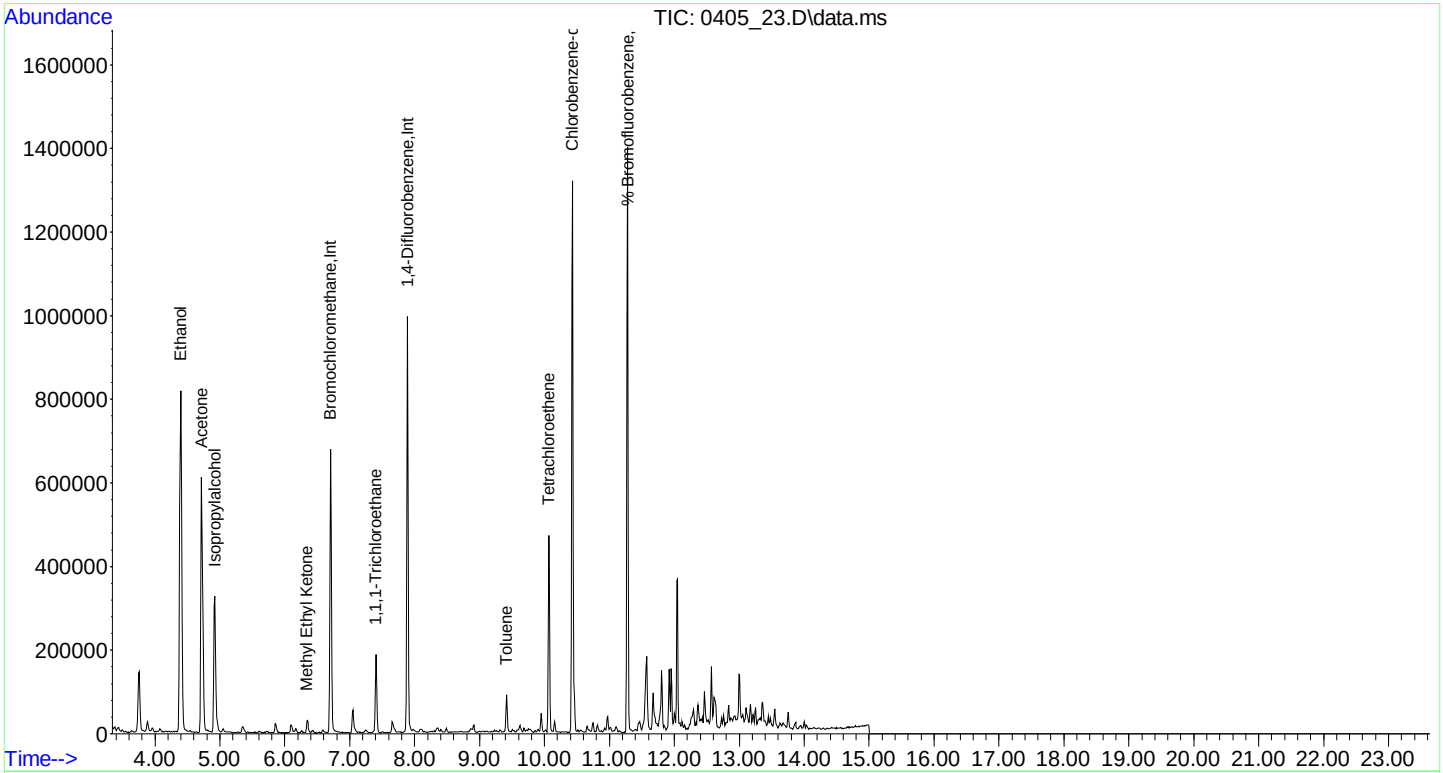
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Bromochloromethane | 6.704 | 130 | 138161 | 10.000 | ng | | 0.00 |
| 37) 1,4-Difluorobenzene | 7.889 | 114 | 530627 | 10.000 | ng | | 0.00 |
| 54) Chlorobenzene-d5 | 10.430 | 82 | 269602 | 10.000 | ng | | 0.00 |
| 81) Bromochloromethane(sim) | 6.710 | 130 | 159610 | 10.000 | ng | # | 0.00 |
| 96) 1,4-Difluorobenzene(sim) | 7.889 | 114 | 530627 | 10.000 | ng | | 0.00 |
| 106) Chlorobenzene-d5(sim) | 10.430 | 82 | 269602 | 10.000 | ng | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 63) % Bromofluorobenzene | 11.281 | 95 | 319798 | 10.065 | ppbv | | 0.00 |
| Spiked Amount 10.000 | Range 70 - 130 | | Recovery = 100.60% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 11) Ethanol | 4.394 | 45 | 916923 | 78.643 | ppbv# | | 75 |
| 12) Acetone | 4.718 | 43 | 811346 | 19.038 | ppbv# | | 86 |
| 14) Isopropylalcohol | 4.922 | 45 | 455633 | 8.725 | ppbv | | 92 |
| 26) Methyl Ethyl Ketone | 6.341 | 43 | 40450 | 0.693 | ppbv# | | 97 |
| 33) 1,1,1-Trichloroethane | 7.402 | 97 | 88741 | 2.338 | ppbv | | 96 |
| 49) Toluene | 9.415 | 91 | 35907 | 0.709 | ppbv | | 97 |
| 53) Tetrachloroethene | 10.065 | 166 | 84717 | 3.331 | ppbv | | 86 |
| 87] 1,1,1-Trichloroethane(... | 7.408 | 97 | 98408 | 2.323 | ppbv# | | 97 |
| 105] Tetrachloroethene(sim) | 10.071 | 166 | 101609 | 3.355 | ppbv | | 97 |

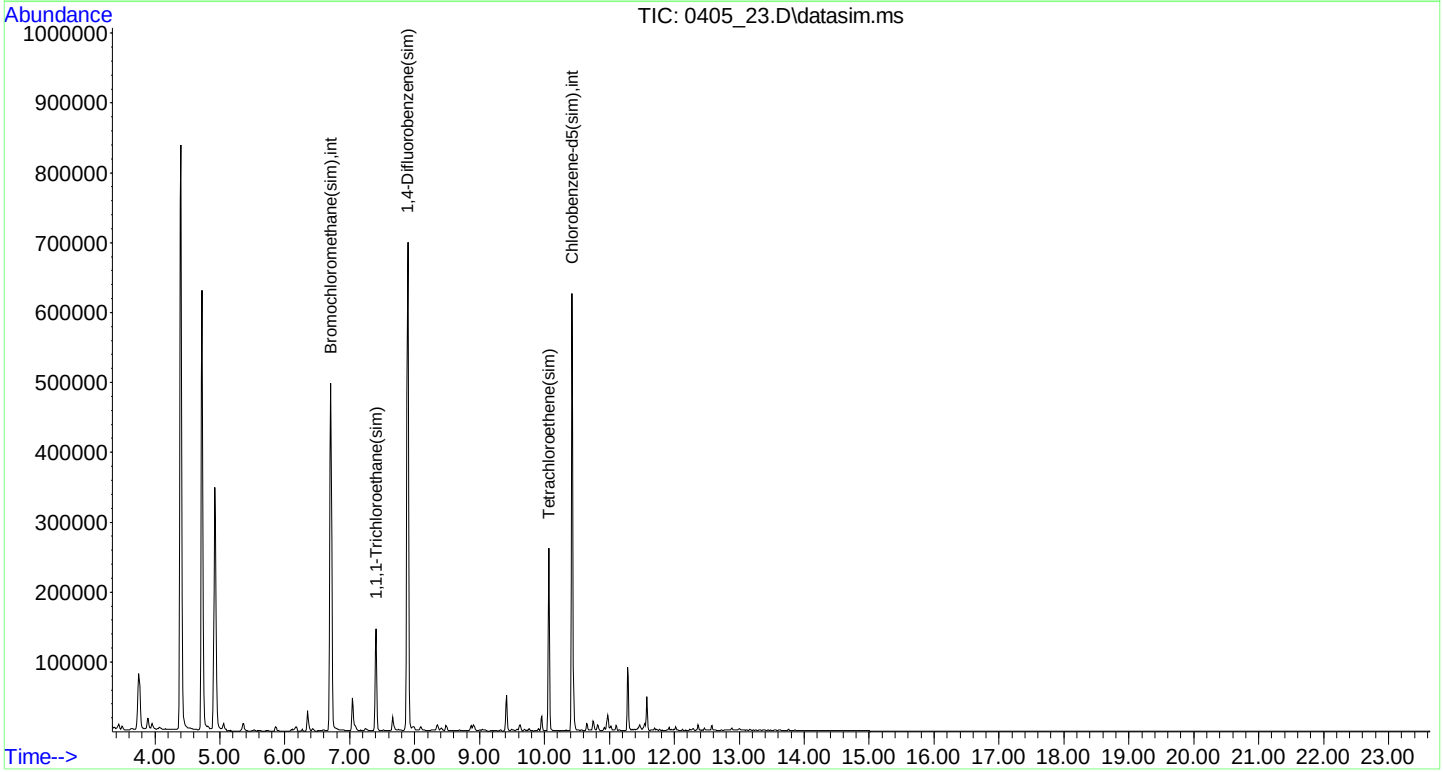
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

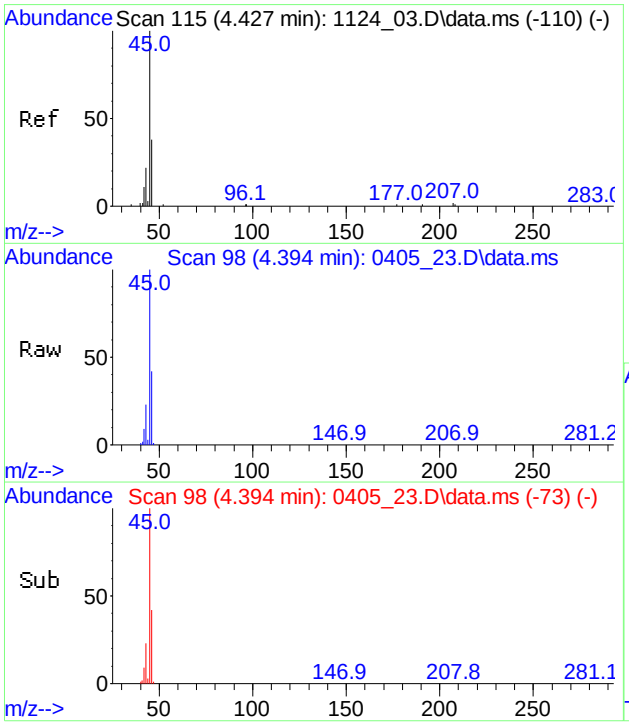
Quantitation Report (QT Reviewed)

Data Path : H:\AIR2021\CHEM20\04APR\05\
Data File : 0405_23.D
Acq On : 5 Apr 2021 11:20 pm
Operator :
Client ID : SS-6 5X
Lab ID : CH92056 5X
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Apr 06 08:26:46 2021
Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0329.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Mar 29 13:12:48 2021
Response via : Initial Calibration



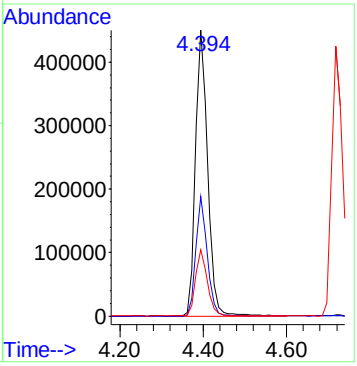



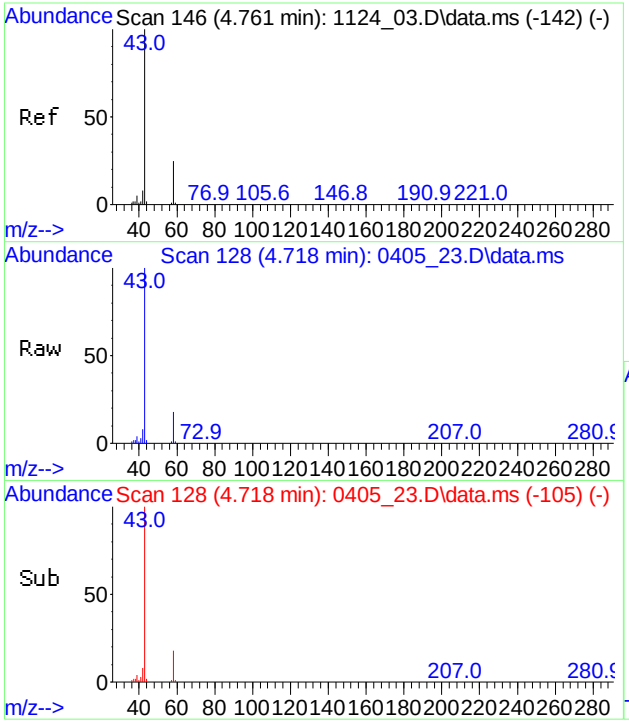



#11
Ethanol
Conc: 8$ 78.643 ppbv
RT: 4.394 min Scan# 98
Delta R.T. -0.032 min
Lab File: 0405_23.D
Acq: 5 Apr 2021 11:20 pm

Tgt Ion: 45 Resp: 916923

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 39.2 | 0.0 | 0.0# |
| 43 | 22.4 | 10.0 | 15.0# |

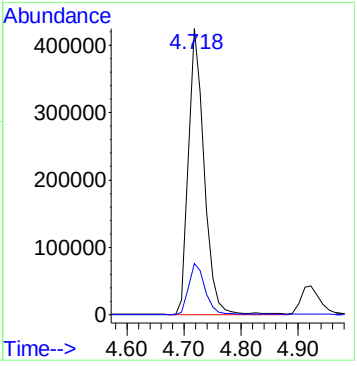


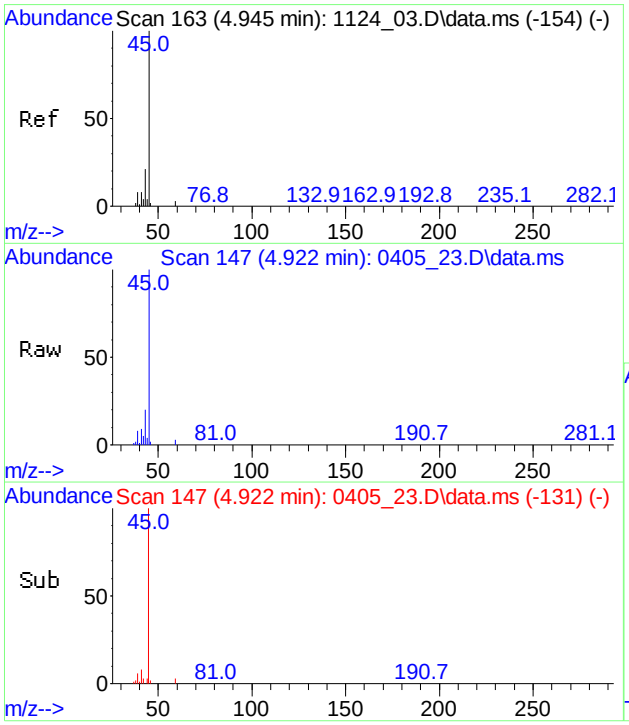




#12
Acetone
Conc: 8$ 19.038 ppbv
RT: 4.718 min Scan# 128
Delta R.T. -0.053 min
Lab File: 0405_23.D
Acq: 5 Apr 2021 11:20 pm

Tgt Ion: 43 Resp: 811346

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 18.3 | 20.4 | 30.6# |

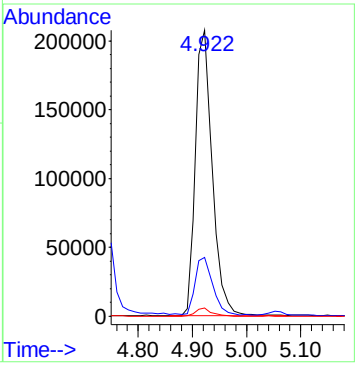


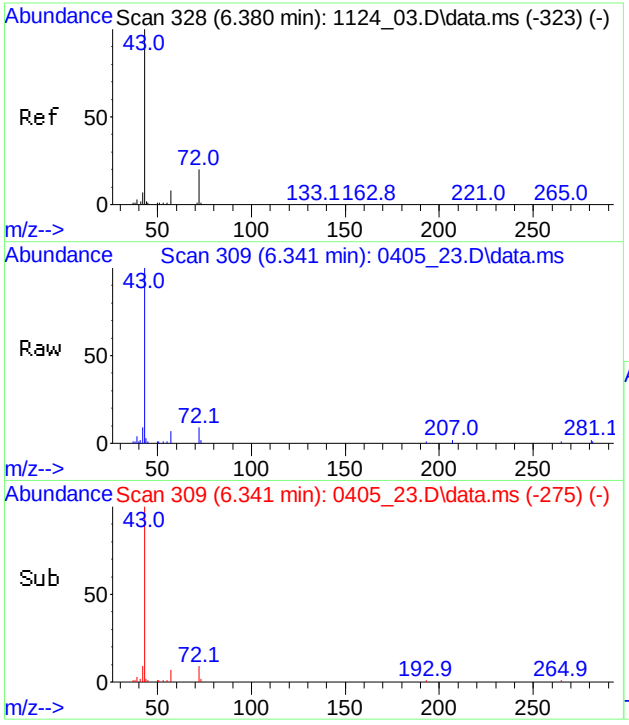



#14
Isopropylalcohol
Conc: 8$ 8.725 ppbv
RT: 4.922 min Scan# 147
Delta R.T. -0.033 min
Lab File: 0405_23.D
Acq: 5 Apr 2021 11:20 pm

Tgt Ion: 45 Resp: 455633

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 21.3 | 20.6 | 31.0 |
| 59 | 2.6 | 2.1 | 3.1 |

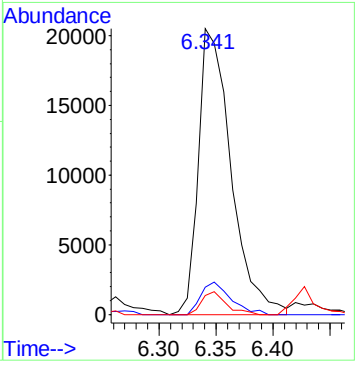


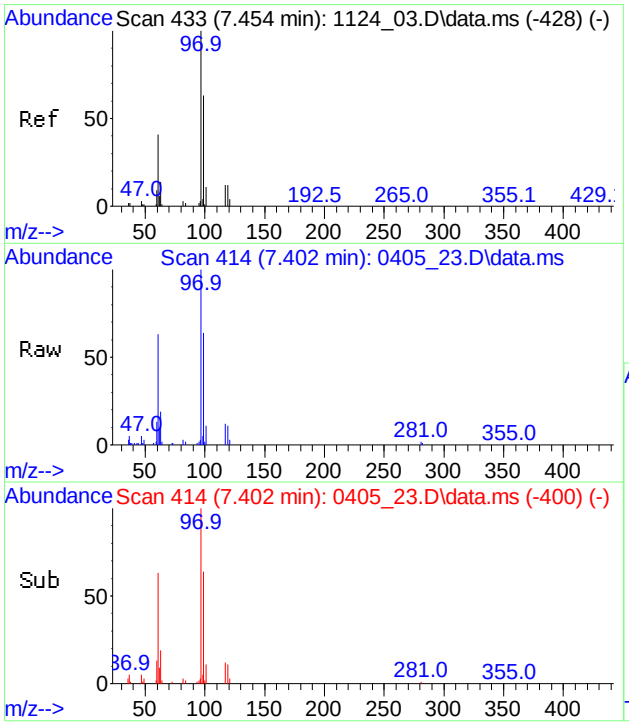




#26
Methyl Ethyl Ketone
Conc: 8$ 0.693 ppbv
RT: 6.341 min Scan# 309
Delta R.T. -0.031 min
Lab File: 0405_23.D
Acq: 5 Apr 2021 11:20 pm

Tgt Ion: 43 Resp: 40450

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 10.3 | 8.8 | 13.2 |
| 57 | 6.0 | 3.0 | 4.6# |

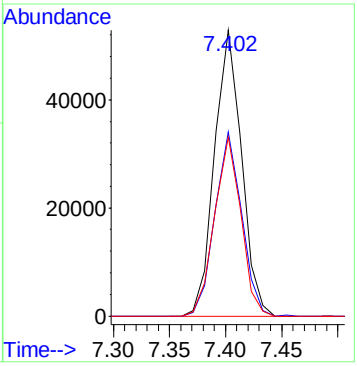


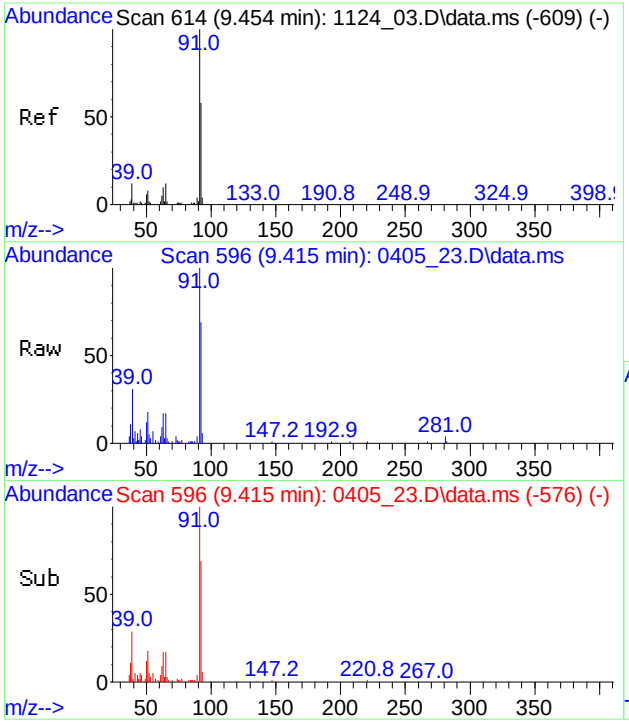



#33
1,1,1-Trichloroethane
Conc: 8$ 2.338 ppbv
RT: 7.402 min Scan# 414
Delta R.T. 0.000 min
Lab File: 0405_23.D
Acq: 5 Apr 2021 11:20 pm

Tgt Ion: 97 Resp: 88741

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 63.6 | 53.8 | 80.8 |
| 61 | 61.0 | 51.4 | 77.0 |

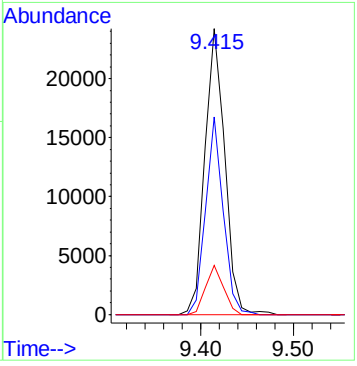


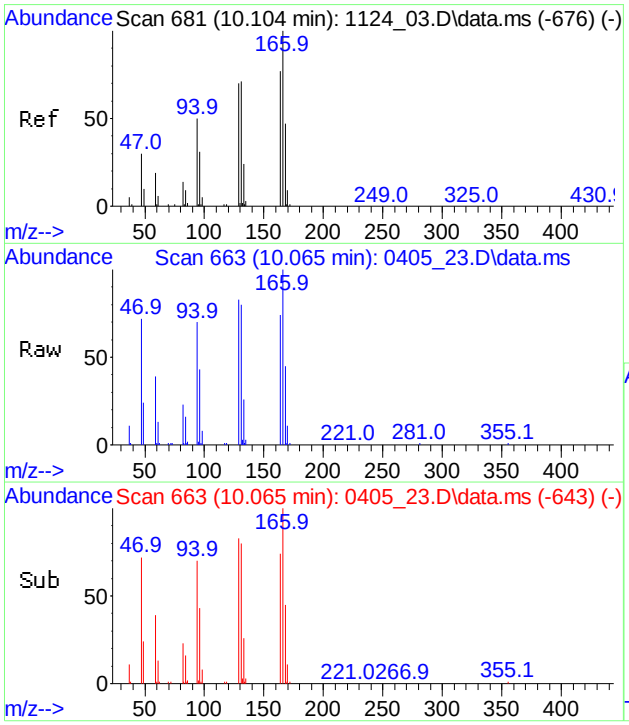




#49
Toluene
Conc: 8$ 0.709 ppbv
RT: 9.415 min Scan# 596
Delta R.T. -0.009 min
Lab File: 0405_23.D
Acq: 5 Apr 2021 11:20 pm

Tgt Ion: 91 Resp: 35907

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 61.1 | 46.8 | 70.2 |
| 65 | 15.5 | 11.5 | 17.3 |

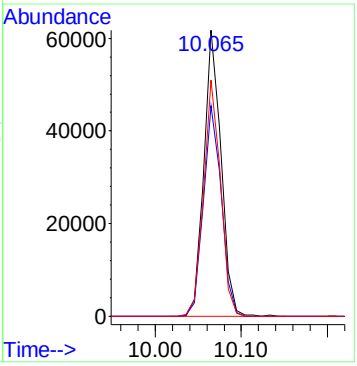


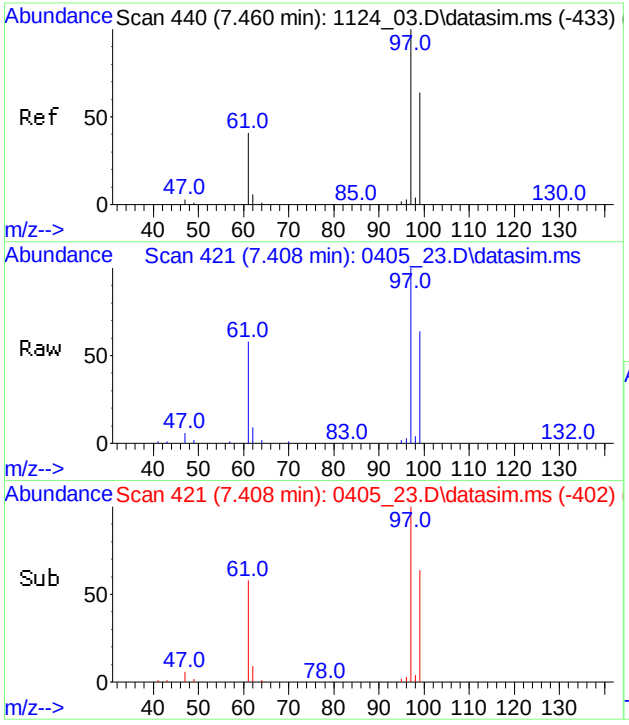



#53
Tetrachloroethene
Conc: 8$ 3.331 ppbv
RT: 10.065 min Scan# 663
Delta R.T. -0.010 min
Lab File: 0405_23.D
Acq: 5 Apr 2021 11:20 pm

Tgt Ion:166 Resp: 84717

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 164 | 76.4 | 52.6 | 78.8 |
| 129 | 81.4 | 55.5 | 83.3 |

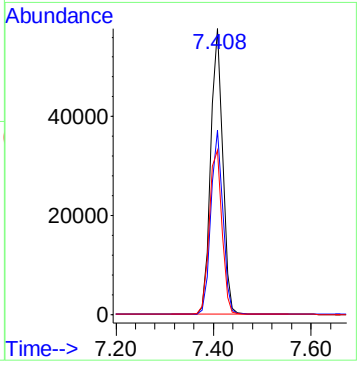


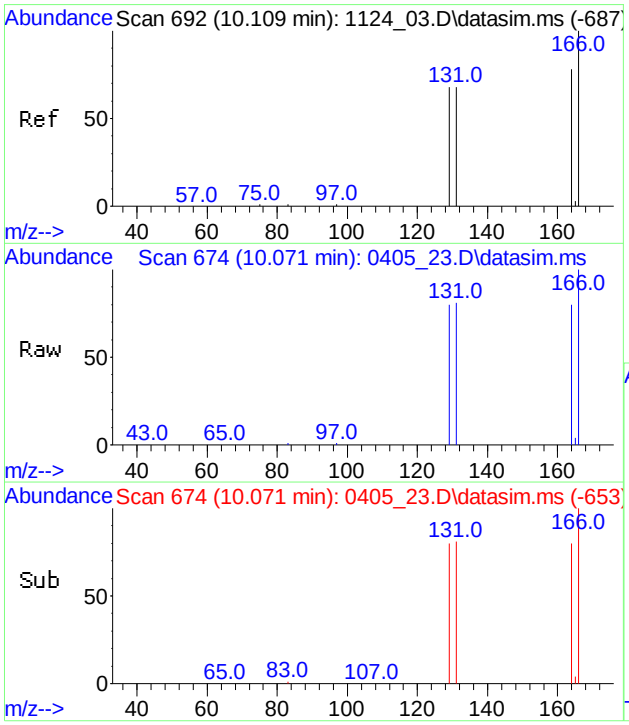




#87
1,1,1-Trichloroethane(sim)
Conc: 8$ 2.323 ppbv
RT: 7.408 min Scan# 421
Delta R.T. 0.001 min
Lab File: 0405_23.D
Acq: 5 Apr 2021 11:20 pm

Tgt Ion: 97 Resp: 98408

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 64.1 | 62.4 | 62.4# |
| 61 | 60.7 | 46.0 | 69.0 |

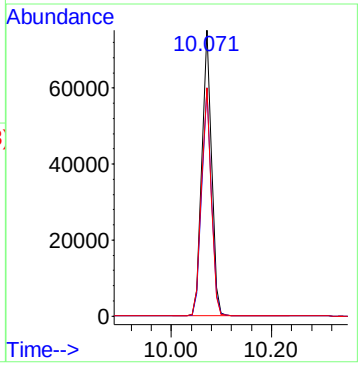





#105
Tetrachloroethene(sim)
Conc: 8$ 3.355 ppbv
RT: 10.071 min Scan# 674
Delta R.T. 0.001 min
Lab File: 0405_23.D
Acq: 5 Apr 2021 11:20 pm

Tgt Ion:166 Resp: 101609

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 164 | 79.2 | 58.1 | 98.1 |
| 129 | 80.3 | 56.6 | 96.6 |



AIR ANALYSIS DATA SHEET

CLIENT ID: SS-4

Client: GC-ENV Lab: Phoenix Env. Labs

SDG No.: GCH92051 Lab Sample ID: CH92057

Canister: 479 Lab File ID: 0405_47.D

Instrument: CHEM24 Column: RTX-VMS Date Received: 04/05/21

Purge Volume 200 (cc) Date Analyzed: 04/06/21

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 | 0.443 | | 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 | 150 | ES | 0.531 | 0.531 | |
| 67-64-1 | Acetone | 30.3 | S | 0.421 | 0.421 | r |
| 67-63-0 | Isopropylalcohol | 11.0 | 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 | 3.58 | | 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 | 0.963 | | 0.339 | 0.339 | r |
| 110-54-3 | Hexane | 3.65 | S | 0.284 | 0.284 | r |
| 141-78-6 | Ethyl acetate | 0.278 | U | 0.278 | 0.278 | r |
| 109-99-9 | Tetrahydrofuran | 0.339 | U | 0.339 | 0.339 | r |
| 71-55-6 | 1,1,1-Trichloroethane | 26.6 | | 0.183 | 0.183 | r |
| 71-43-2 | Benzene | 0.407 | | 0.313 | 0.313 | r |
| 110-82-7 | Cyclohexane | 3.32 | | 0.291 | 0.291 | r |
| 142-82-5 | Heptane | 6.28 | | 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 | 3.36 | | 0.266 | 0.266 | r |
| 591-78-6 | 2-Hexanone(MBK) | 0.244 | U | 0.244 | 0.244 | r |
| 127-18-4 | Tetrachloroethene | 51.7 | E | 0.037 | 0.037 | |
| 108-90-7 | Chlorobenzene | 0.217 | U | 0.217 | 0.217 | r |
| 100-41-4 | Ethylbenzene | 0.519 | | 0.230 | 0.230 | r |
| 179601-23-1 | m,p-Xylene | 1.11 | | 0.230 | 0.230 | r |
| 100-42-5 | Styrene | 0.285 | | 0.235 | 0.235 | r |
| 95-47-6 | o-Xylene | 0.458 | | 0.230 | 0.230 | r |
| 98-82-8 | Isopropylbenzene | 0.204 | U | 0.204 | 0.204 | r |
| 622-96-8 | 4-Ethyltoluene | 0.264 | | 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 | 0.232 | | 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

AIR ANALYSIS DATA SHEET

CLIENT ID: SS-4

Client: GC-ENV Lab: Phoenix Env. Labs

SDG No.: GCH92051 Lab Sample ID: CH92057

Canister: 479 Lab File ID: 0405_47.D

Instrument: CHEM24 Column: RTX-VMS Date Received: 04/05/21

Purge Volume 200 (cc) Date Analyzed: 04/06/21

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 |
| 75-69-4 | Trichlorofluoromethane(sim) | 0.195 | | 0.178 | 0.178 | r |
| 56-23-5 | Carbon Tetrachloride(sim) | 0.055 | | 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) | 0.130 | | 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 |
| 630-20-6 | 1,1,1,2-Tetrachloroethane(sim) | 0.146 | U | 0.146 | 0.146 | 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:\AIR2021\CHEM24\04APR\05\
Data File : 0405_47.D
Acq On : 6 Apr 2021 7:32 pm
Operator : Keith
Client ID : SS-4
Lab ID : CH92057
ALS Vial : 45 Sample Multiplier: 1

Quant Time: Apr 07 08:20:50 2021
Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 26 09:02:26 2021
Response via : Initial Calibration

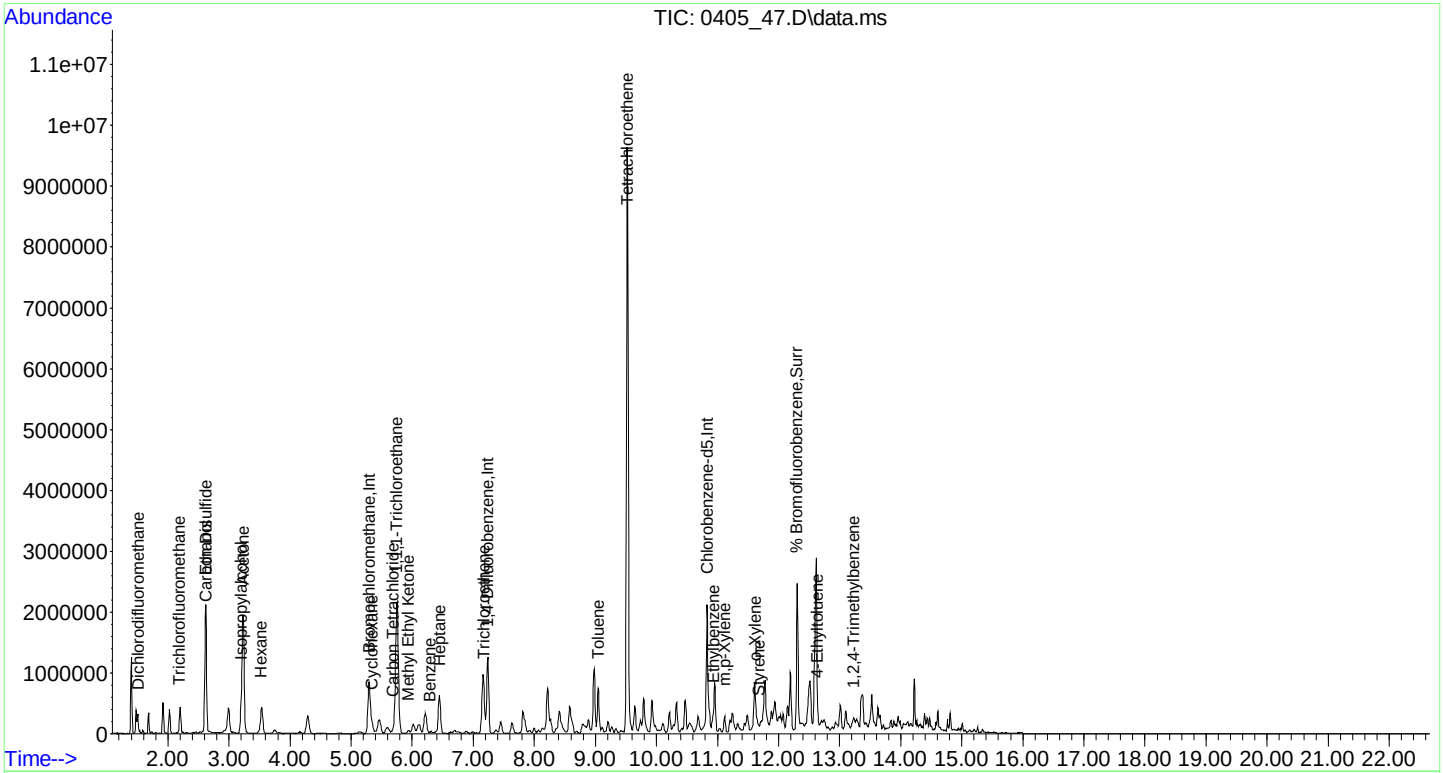
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Bromochloromethane | 5.293 | 130 | 330522 | 10.000 | ng | | 0.03 |
| 36) 1,4-Difluorobenzene | 7.238 | 114 | 1066233 | 10.000 | ng | | 0.01 |
| 53) Chlorobenzene-d5 | 10.829 | 82 | 508210 | 10.000 | ng | | 0.01 |
| 80) Bromochloromethane(sim) | 5.296 | 130 | 342976 | 10.000 | ng | # | 0.03 |
| 95) 1,4-Difluorobenzene(sim) | 7.238 | 114 | 1066233 | 10.000 | ng | | 0.01 |
| 105) Chlorobenzene-d5(sim) | 10.829 | 82 | 508210 | 10.000 | ng | | 0.01 |
| System Monitoring Compounds | | | | | | | |
| 62) % Bromofluorobenzene | 12.303 | 95 | 708291 | 10.048 | ppbv | | 0.00 |
| Spiked Amount 10.000 | Range 70 - 130 | | Recovery = 100.50% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 3) Dichlorodifluoromethane | 1.512 | 85 | 26755 | 0.443 | ppbv | | 99 |
| 10) Ethanol | 2.622 | 45 | 2195809 | 149.524 | ppbv | | 96 |
| 12) Acetone | 3.231 | 43 | 2570965 | 30.259 | ppbv | | 97 |
| 13) Trichlorofluoromethane | 2.191 | 101 | 18008 | 0.213 | ppbv# | | 95 |
| 14) Isopropylalcohol | 3.203 | 45 | 828776 | 10.999 | ppbv# | | 1 |
| 20) Carbon Disulfide | 2.629 | 76 | 233447 | 3.579 | ppbv | | 100 |
| 25) Methyl Ethyl Ketone | 5.942 | 43 | 84363 | 0.963 | ppbv | | 99 |
| 27) Hexane | 3.532 | 57 | 215129 | 3.647 | ppbv | | 94 |
| 32) 1,1,1-Trichloroethane | 5.755 | 97 | 1829309 | 26.568 | ppbv | | 92 |
| 33) Benzene | 6.300 | 78 | 27952 | 0.407 | ppbv | | 99 |
| 34) Carbon Tetrachloride | 5.690 | 117 | 4974m | 0.063 | ppbv | | 99 |
| 35) Cyclohexane | 5.337 | 56 | 153780 | 3.321 | ppbv | | 93 |
| 39) Trichloroethene | 7.177 | 130 | 5872 | 0.137 | ppbv# | | 82 |
| 43) Heptane | 6.451 | 43 | 478077 | 6.280 | ppbv | | 99 |
| 48) Toluene | 9.046 | 91 | 291439 | 3.355 | ppbv | | 99 |
| 52) Tetrachloroethene | 9.523 | 166 | 2688616 | 51.703 | ppbv | | 98 |
| 56) Ethylbenzene | 10.932 | 91 | 66217 | 0.519 | ppbv | | 98 |
| 57) m,p-Xylene | 11.117 | 91 | 106172 | 1.107 | ppbv | | 98 |
| 59) Styrene | 11.680 | 104 | 19619 | 0.285 | ppbv | | 98 |
| 61) o-Xylene | 11.618 | 91 | 43873 | 0.458 | ppbv | | 95 |
| 66) 4-Ethyltoluene | 12.640 | 105 | 37407 | 0.264 | ppbv# | | 83 |
| 68) 1,2,4-Trimethylbenzene | 13.231 | 105 | 25660 | 0.232 | ppbv# | | 93 |
| 84] Trichlorofluoromethane... | 2.194 | 101 | 18995 | 0.195 | ppbv | | 100 |
| 85] 1,1,1-Trichloroethane(... | 5.755 | 97 | 1830319 | 25.314 | ppbv# | | 92 |
| 86] Benzene(sim) | 6.310 | 78 | 29998 | 0.376 | ppbv | | 99 |
| 87] Carbon Tetrachloride(sim) | 5.671 | 117 | 4554m | 0.055 | ppbv | | 99 |
| 98] Trichloroethene(sim) | 7.180 | 130 | 6216 | 0.130 | ppbv | | 100 |
| 104] Tetrachloroethene(sim) | 9.525 | 166 | 2797817 | 50.178 | ppbv | | 99 |
| 108] Ethylbenzene(sim) | 10.935 | 91 | 70332 | 0.506 | ppb | # | 98 |
| 109] m,p-Xylene(sim) | 11.117 | 91 | 107238 | 1.133 | ppbv | | 97 |
| 110] o-Xylene(sim) | 11.614 | 91 | 46592 | 0.471 | ppb | # | 91 |

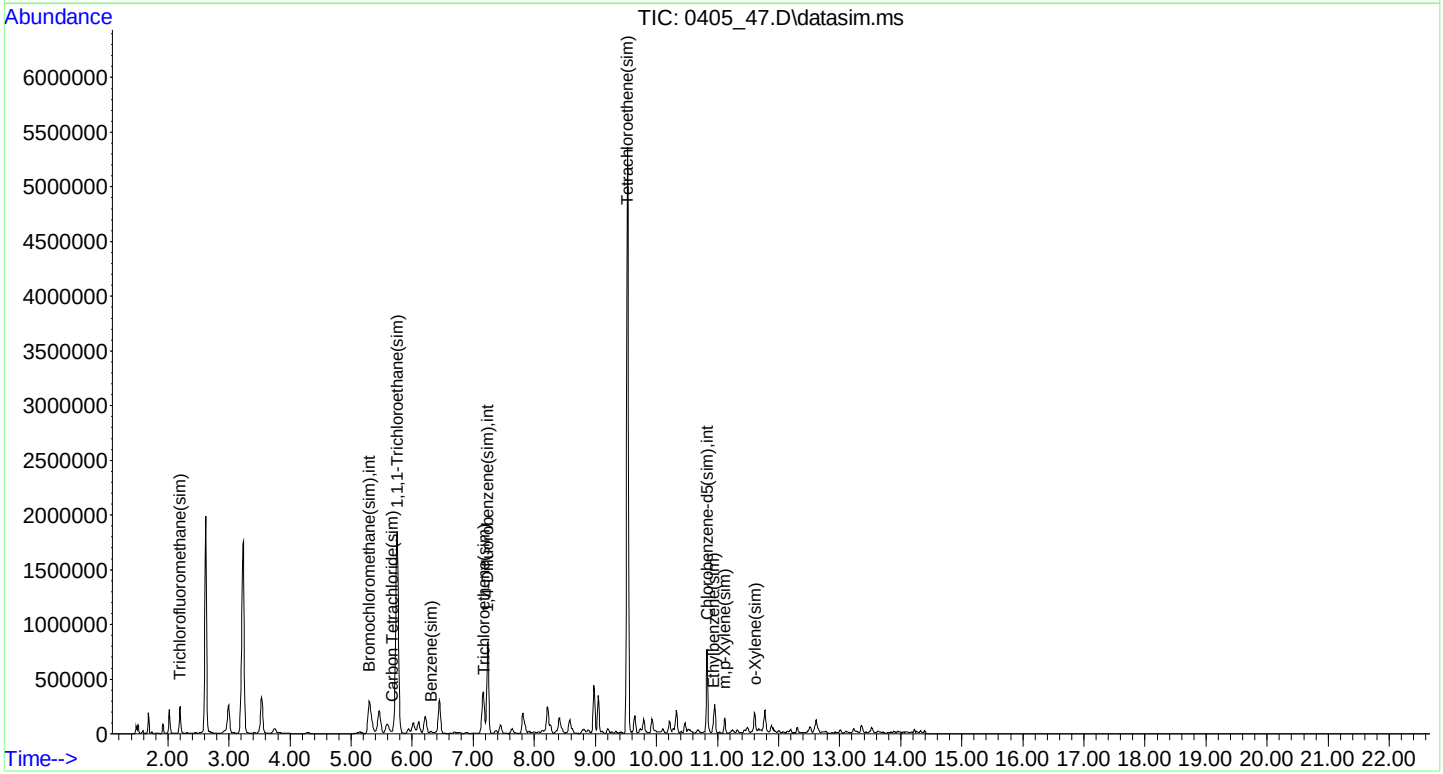
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

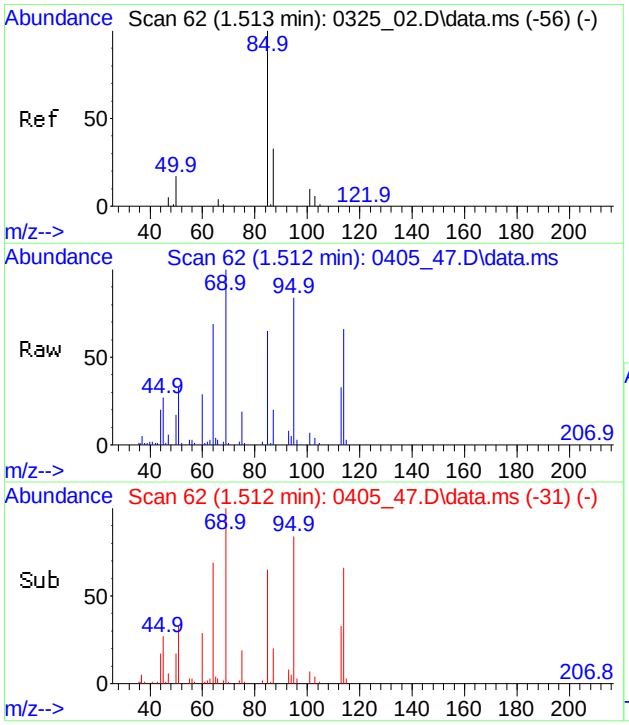
Quantitation Report (QT Reviewed)

Data Path : H:\AIR2021\CHEM24\04APR\05\
Data File : 0405_47.D
Acq On : 6 Apr 2021 7:32 pm
Operator : Keith
Client ID : SS-4
Lab ID : CH92057
ALS Vial : 45 Sample Multiplier: 1

Quant Time: Apr 07 08:20:50 2021
Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 26 09:02:26 2021
Response via : Initial Calibration



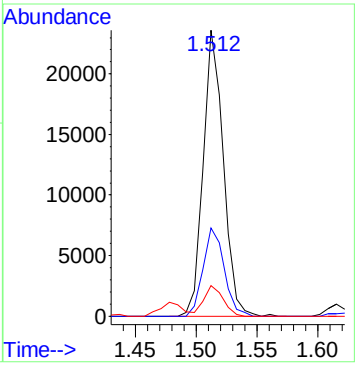



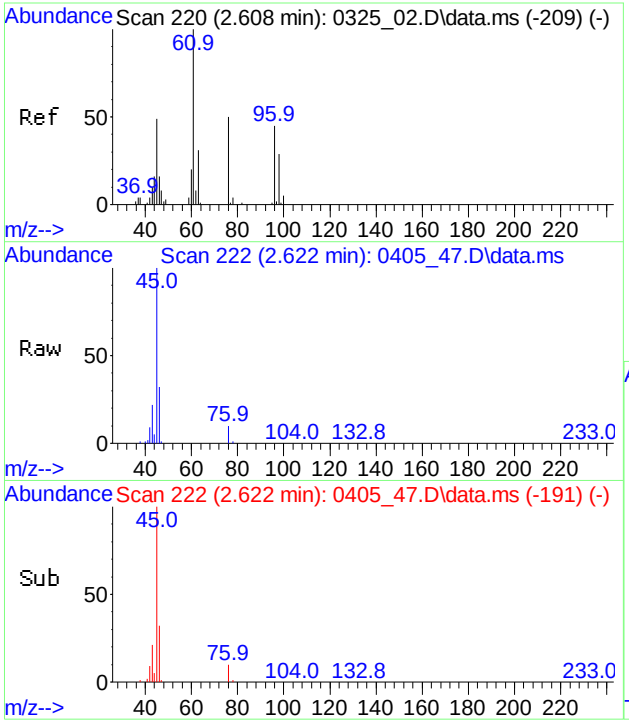



#3
Dichlorodifluoromethane
Conc: 8$ 0.443 ppbv
RT: 1.512 min Scan# 62
Delta R.T. 0.013 min
Lab File: 0405_47.D
Acq: 6 Apr 2021 7:32 pm

Tgt Ion: 85 Resp: 26755

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 32.3 | 26.6 | 40.0 |
| 101 | 9.9 | 7.9 | 11.9 |

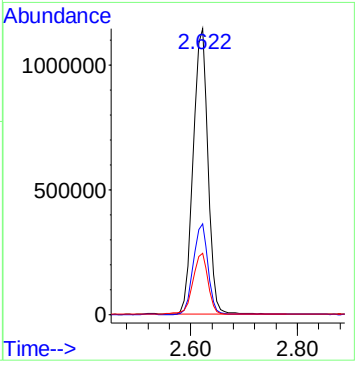


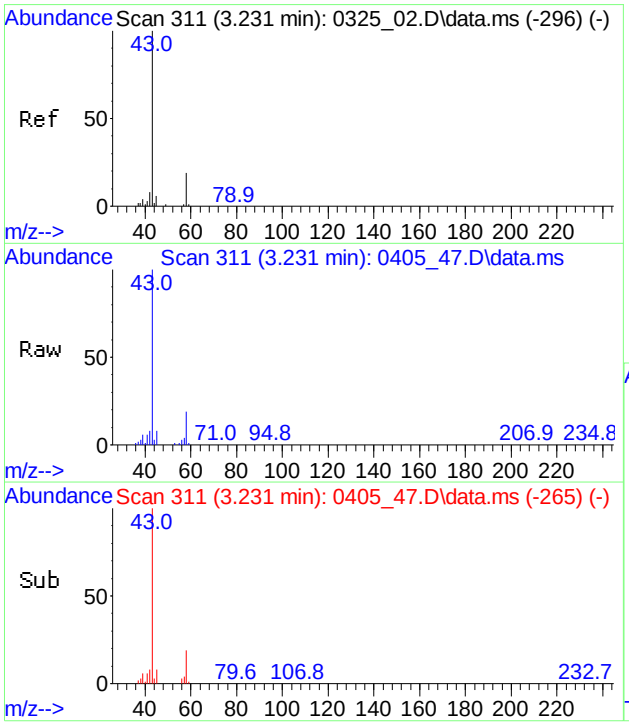




#10
Ethanol
Conc: 8$ 149.524 ppbv
RT: 2.622 min Scan# 222
Delta R.T. 0.027 min
Lab File: 0405_47.D
Acq: 6 Apr 2021 7:32 pm

Tgt Ion: 45 Resp: 2195809

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 31.6 | 27.8 | 41.6 |
| 43 | 22.2 | 17.3 | 25.9 |

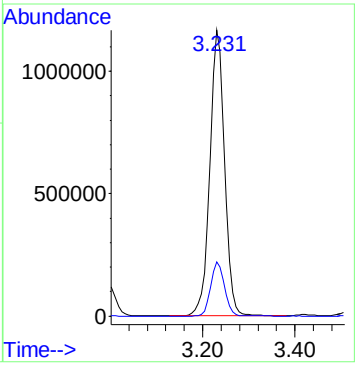


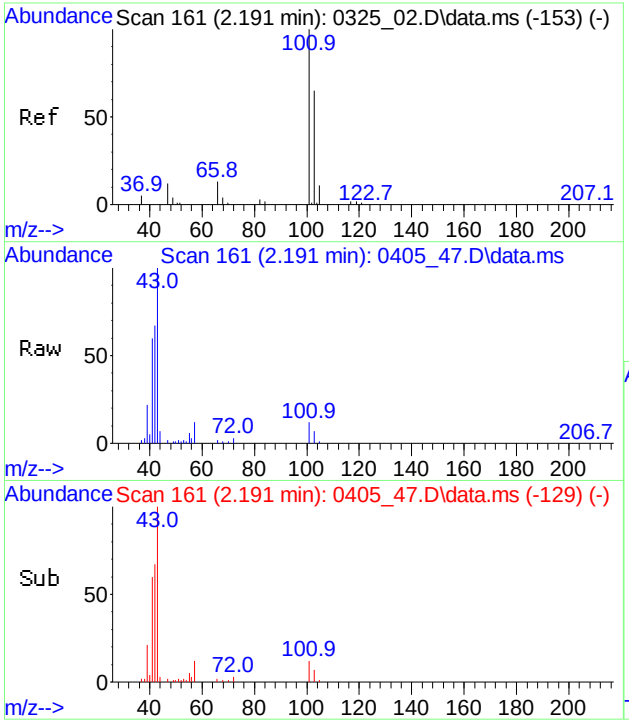



#12
Acetone
Conc: 8$ 30.259 ppbv
RT: 3.231 min Scan# 311
Delta R.T. 0.014 min
Lab File: 0405_47.D
Acq: 6 Apr 2021 7:32 pm

Tgt Ion: 43 Resp: 2570965

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 17.7 | 13.2 | 19.8 |

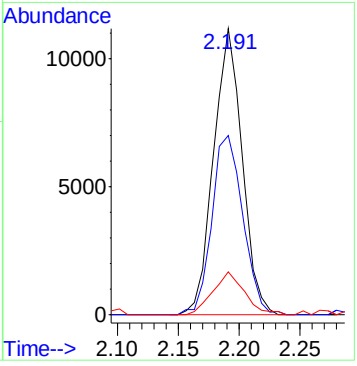


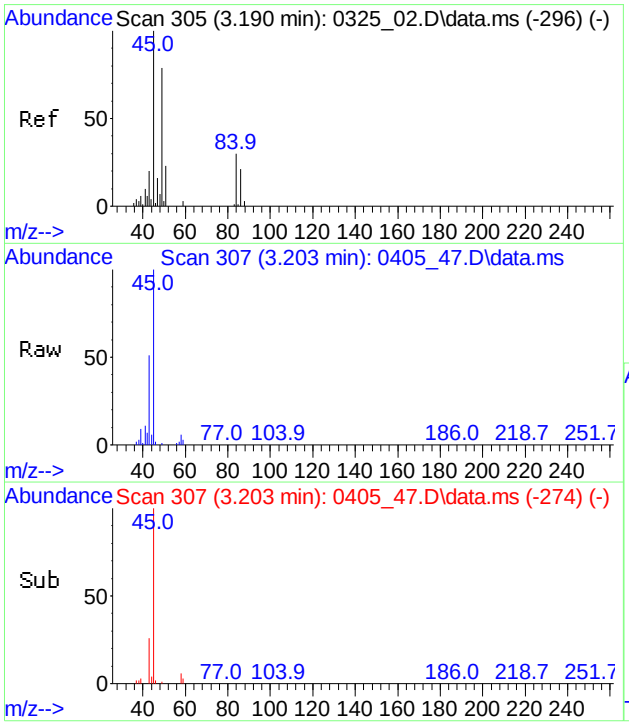




#13
Trichlorofluoromethane
Conc: 8$ 0.213 ppbv
RT: 2.191 min Scan# 161
Delta R.T. 0.021 min
Lab File: 0405_47.D
Acq: 6 Apr 2021 7:32 pm

Tgt Ion:101 Resp: 18008

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 67.6 | 51.5 | 77.3 |
| 66 | 16.4 | 10.6 | 15.8# |

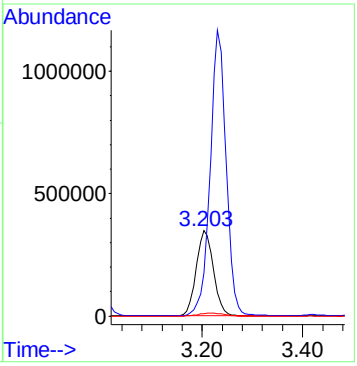


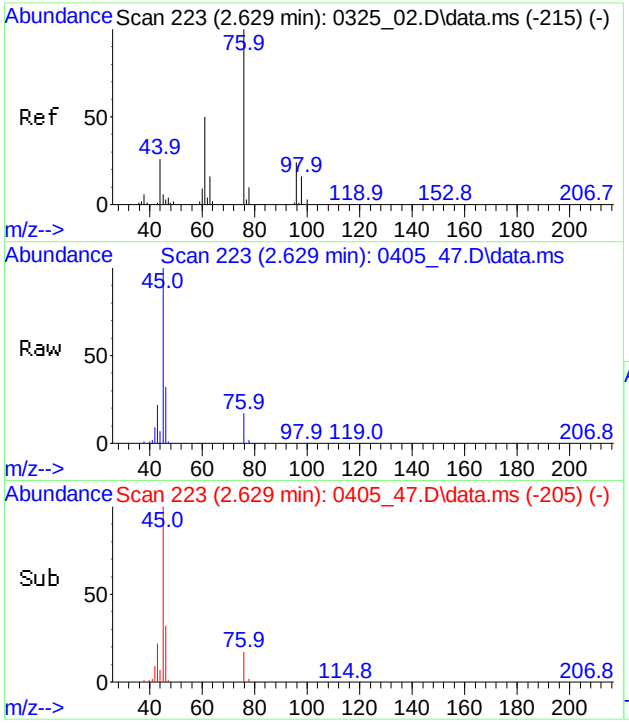



#14
Isopropylalcohol
Conc: 8$ 10.999 ppbv
RT: 3.203 min Scan# 307
Delta R.T. 0.027 min
Lab File: 0405_47.D
Acq: 6 Apr 2021 7:32 pm

Tgt Ion: 45 Resp: 828776

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 310.1 | 84.1 | 126.1# |
| 59 | 4.8 | 2.6 | 4.0# |

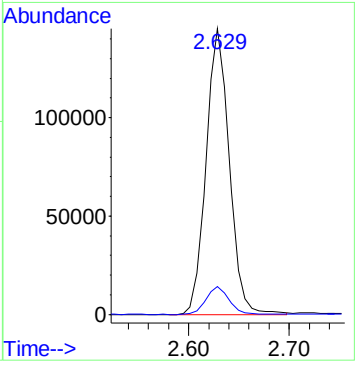


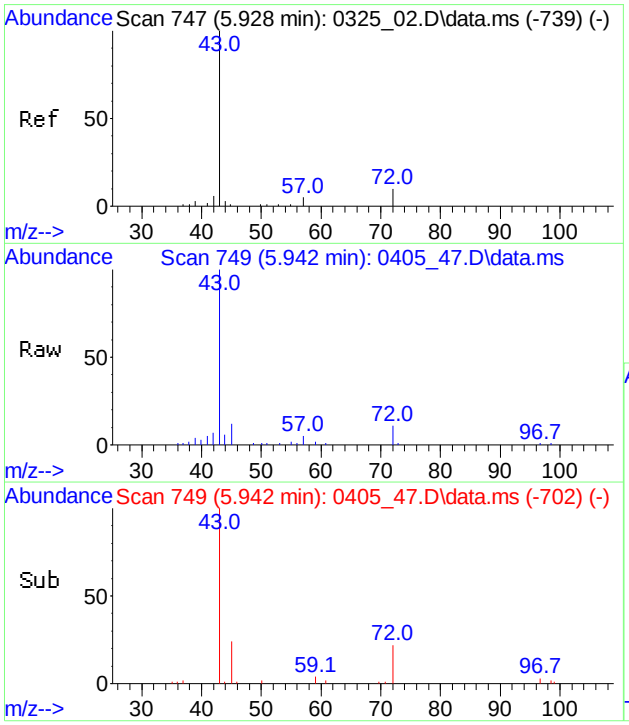




#20
Carbon Disulfide
Conc: 8$ 3.579 ppbv
RT: 2.629 min Scan# 223
Delta R.T. 0.021 min
Lab File: 0405_47.D
Acq: 6 Apr 2021 7:32 pm

Tgt Ion: 76 Resp: 233447

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 9.7 | 7.7 | 11.5 |

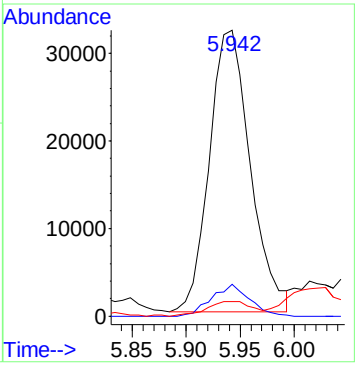


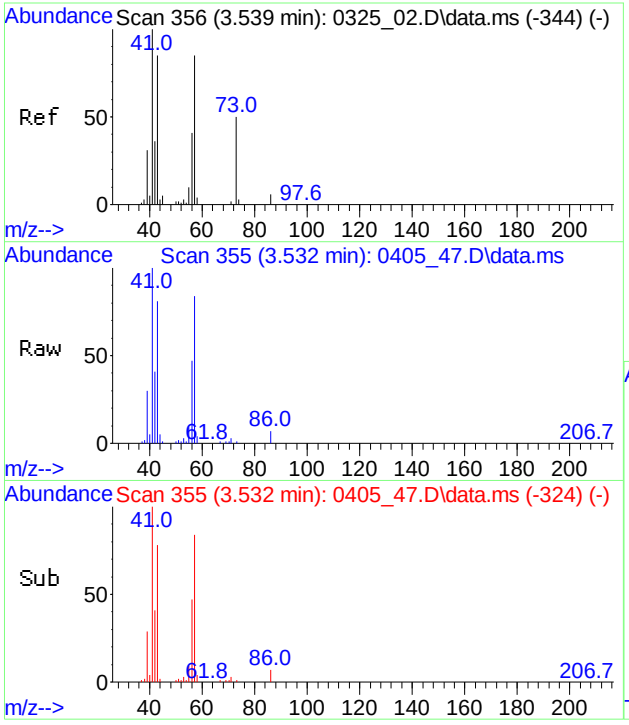



#25
Methyl Ethyl Ketone
Conc: 8$ 0.963 ppbv
RT: 5.942 min Scan# 749
Delta R.T. 0.036 min
Lab File: 0405_47.D
Acq: 6 Apr 2021 7:32 pm

Tgt Ion: 43 Resp: 84363

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 10.4 | 8.5 | 12.7 |
| 57 | 5.8 | 4.2 | 6.4 |

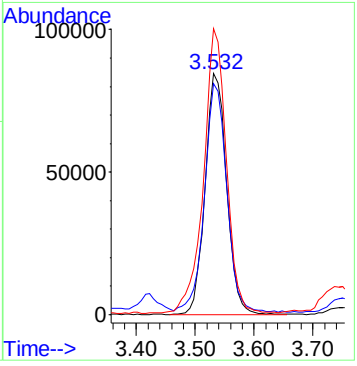


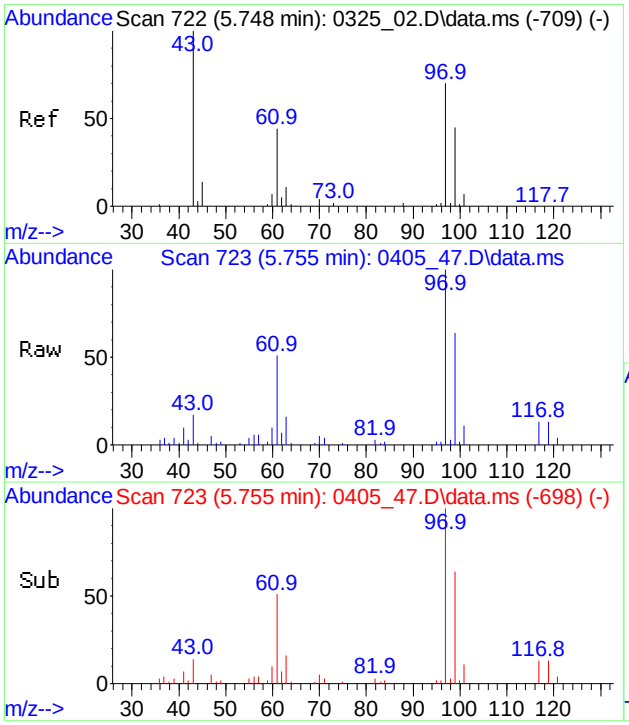




#27
Hexane
Conc: 8$ 3.647 ppbv
RT: 3.532 min Scan# 355
Delta R.T. 0.014 min
Lab File: 0405_47.D
Acq: 6 Apr 2021 7:32 pm

Tgt Ion: 57 Resp: 215129

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 43 | 97.0 | 83.3 | 124.9 |
| 41 | 125.0 | 95.6 | 143.4 |

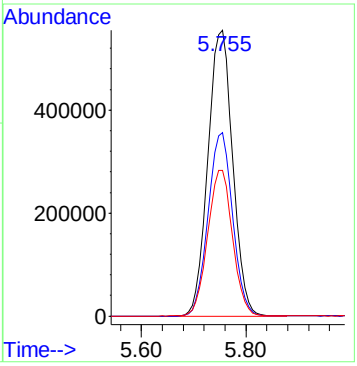


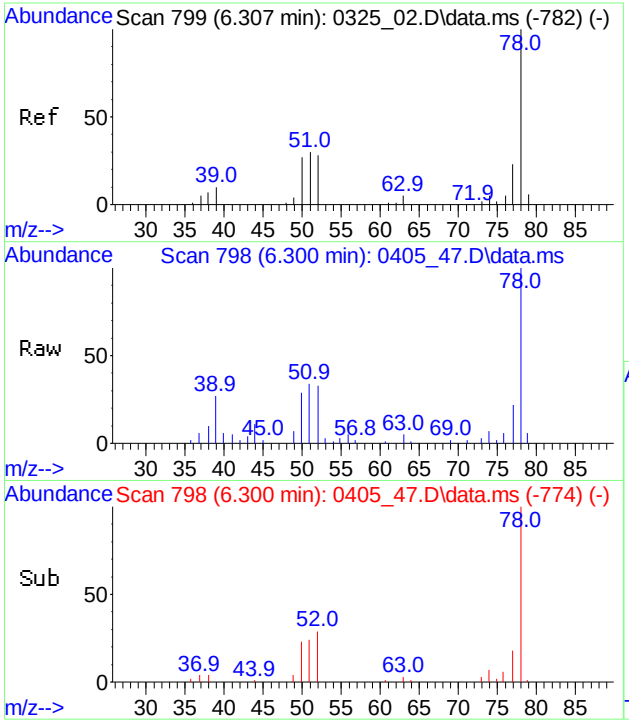



#32
1,1,1-Trichloroethane
Conc: 8$ 26.568 ppbv
RT: 5.755 min Scan# 723
Delta R.T. 0.029 min
Lab File: 0405_47.D
Acq: 6 Apr 2021 7:32 pm

Tgt Ion: 97 Resp: 1829309

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 63.6 | 51.3 | 76.9 |
| 61 | 51.1 | 50.1 | 75.1 |

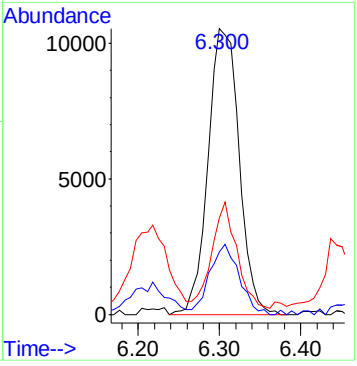


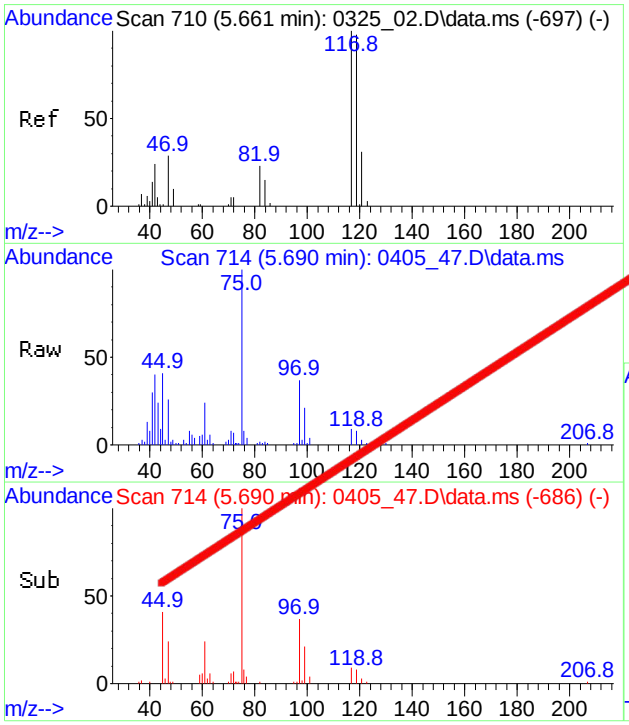




#33
Benzene
Conc: 8$ 0.407 ppbv
RT: 6.300 min Scan# 798
Delta R.T. 0.014 min
Lab File: 0405_47.D
Acq: 6 Apr 2021 7:32 pm

Tgt Ion: 78 Resp: 27952

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 23.1 | 18.2 | 27.2 |
| 51 | 29.5 | 24.2 | 36.2 |

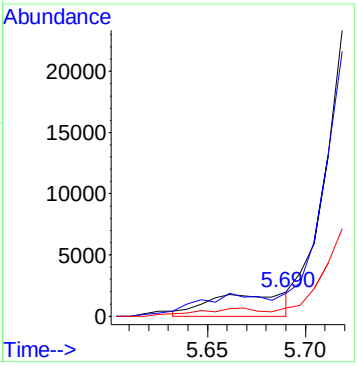


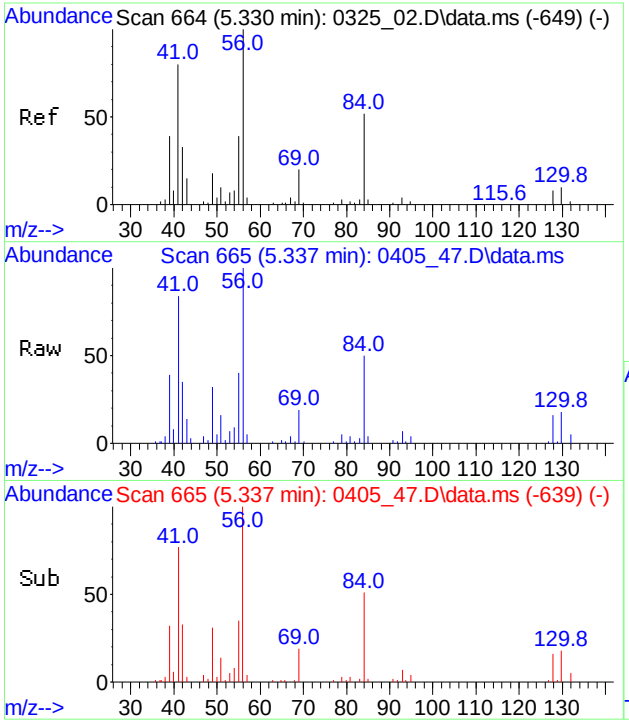



#34
Carbon Tetrachloride
Conc: 8$  Below Cal
RT:  5.690 min  Scan# 714
Delta R.T.  0.051 min
Lab File:  0405_47.D
Acq:  6 Apr 2021  7:32 pm

Tgt Ion:117 Resp:  4974

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 4475.1 | 78.0 | 118.0# |
| 121 | 1461.1 | 12.1 | 52.1# |

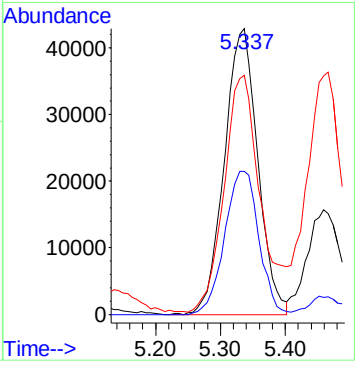


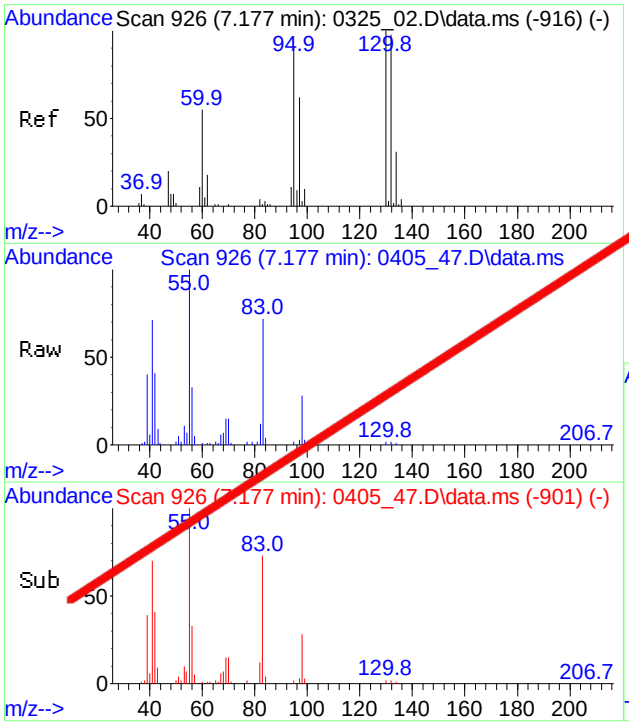




#35
Cyclohexane
Conc: 8$  3.321 ppbv
RT:  5.337 min  Scan# 665
Delta R.T.  0.036 min
Lab File:  0405_47.D
Acq:  6 Apr 2021  7:32 pm

Tgt Ion: 56 Resp:  153780

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 84 | 50.9 | 42.2 | 63.4 |
| 41 | 88.9 | 64.1 | 96.1 |

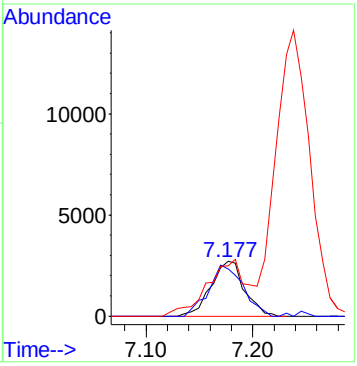


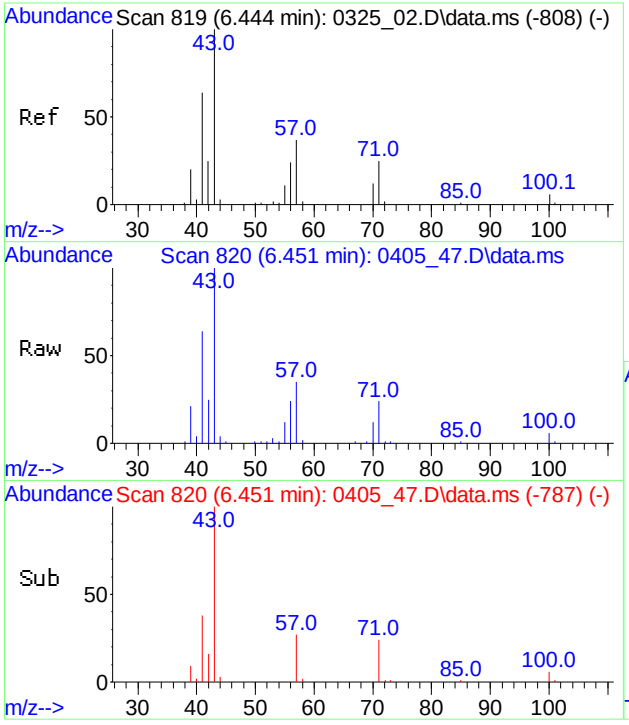



#39
Trichloroethene
Conc: 8$  Below Cal
RT:  7.177 min  Scan# 926
Delta R.T.  0.021 min
Lab File:  0405_47.D
Acq:  6 Apr 2021  7:32 pm

Tgt Ion:130 Resp:  5872

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 132 | 96.3 | 76.6 | 115.0 |
| 95 | 125.7 | 72.3 | 108.5# |

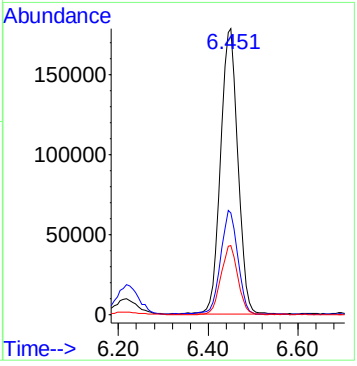


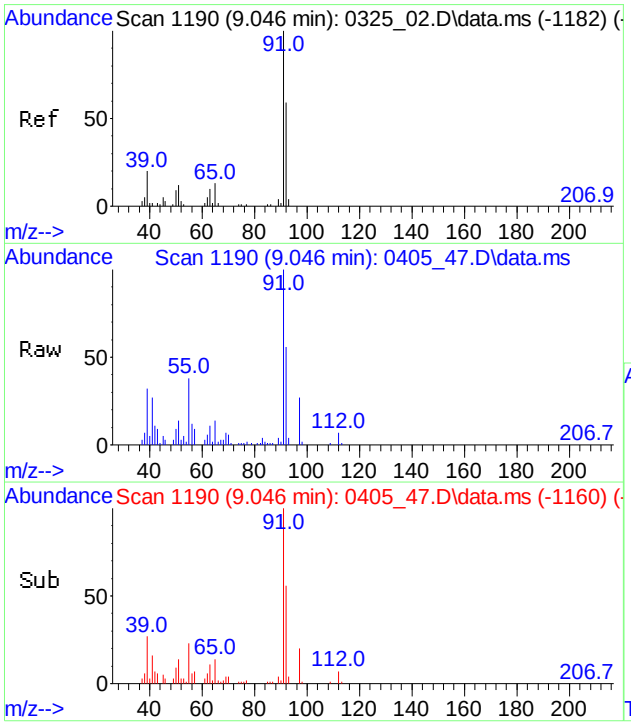




#43
Heptane
Conc: 8$  6.280 ppbv
RT:  6.451 min  Scan# 820
Delta R.T.  0.028 min
Lab File:  0405_47.D
Acq:  6 Apr 2021  7:32 pm

Tgt Ion: 43 Resp:  478077

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 57 | 36.7 | 29.5 | 44.3 |
| 71 | 23.5 | 19.8 | 29.8 |

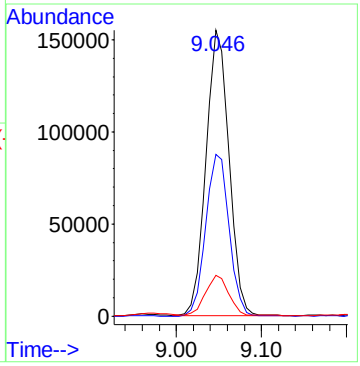


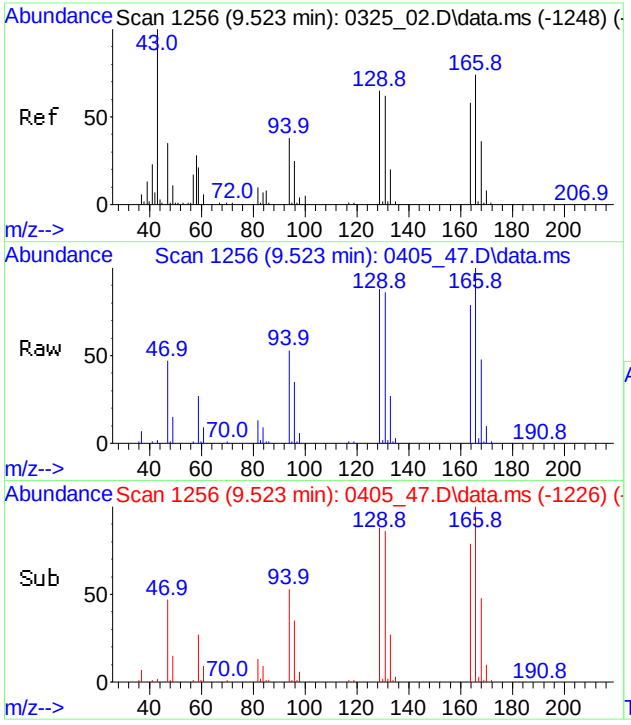



#48
Toluene
Conc: 8$ 3.355 ppbv
RT: 9.046 min Scan# 1190
Delta R.T. 0.014 min
Lab File: 0405_47.D
Acq: 6 Apr 2021 7:32 pm

Tgt Ion: 91 Resp: 291439

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 57.4 | 46.3 | 69.5 |
| 65 | 14.5 | 10.1 | 15.1 |

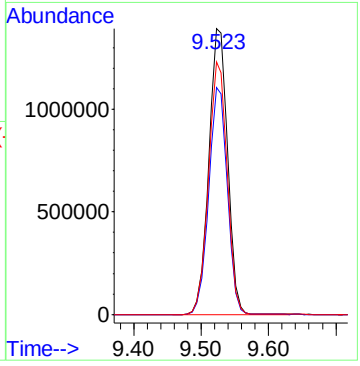


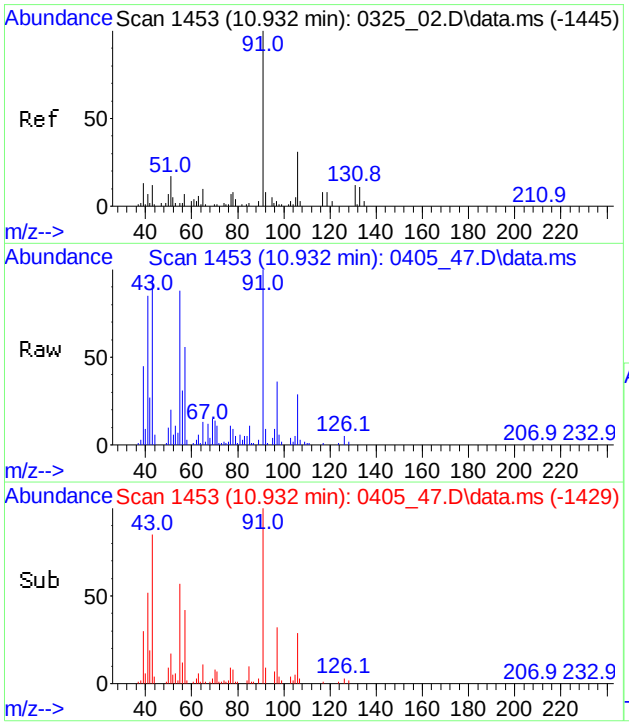




#52
Tetrachloroethene
Conc: 8$ 51.703 ppbv
RT: 9.523 min Scan# 1256
Delta R.T. 0.015 min
Lab File: 0405_47.D
Acq: 6 Apr 2021 7:32 pm

Tgt Ion:166 Resp: 2688616

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 164 | 78.7 | 62.2 | 93.4 |
| 129 | 87.9 | 68.3 | 102.5 |

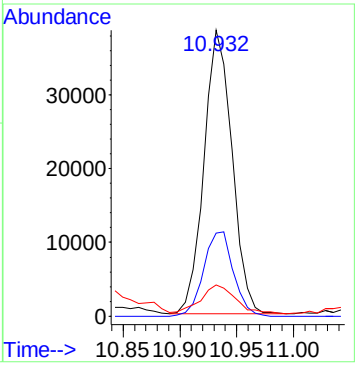


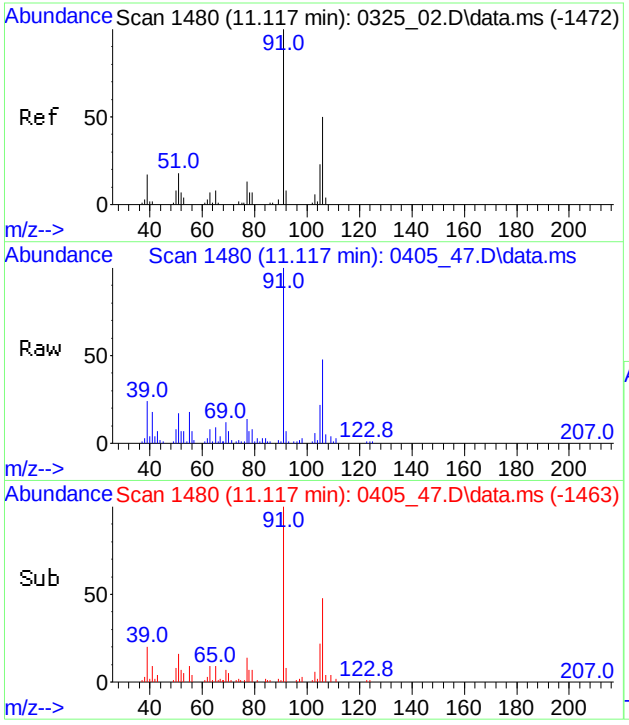



#56
Ethylbenzene
Conc: 8$ 0.519 ppbv
RT: 10.932 min Scan# 1453
Delta R.T. 0.014 min
Lab File: 0405_47.D
Acq: 6 Apr 2021 7:32 pm

Tgt Ion: 91 Resp: 66217

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 31.3 | 11.4 | 51.4 |
| 77 | 12.4 | 0.0 | 28.7 |

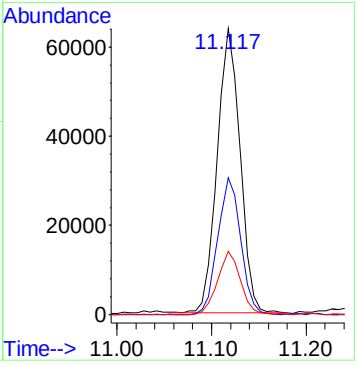


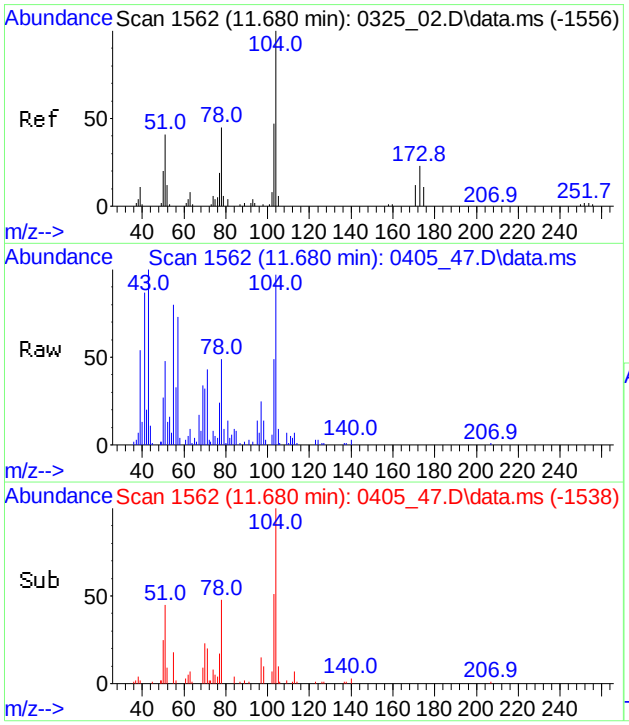




#57
m,p-Xylene
Conc: 8$ 1.107 ppbv
RT: 11.117 min Scan# 1480
Delta R.T. 0.013 min
Lab File: 0405_47.D
Acq: 6 Apr 2021 7:32 pm

Tgt Ion: 91 Resp: 106172

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 48.3 | 39.8 | 59.8 |
| 105 | 22.4 | 18.2 | 27.4 |

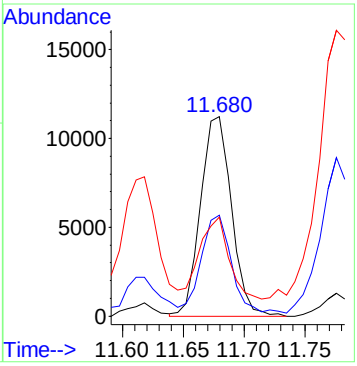


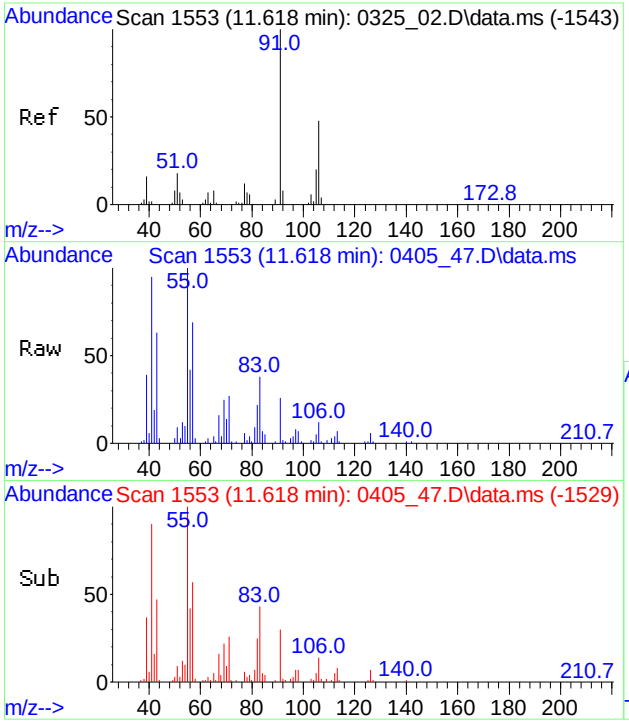



#59
Styrene
Conc: 8$ 0.285 ppbv
RT: 11.680 min Scan# 1562
Delta R.T. 0.014 min
Lab File: 0405_47.D
Acq: 6 Apr 2021 7:32 pm

Tgt Ion:104 Resp: 19619

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 45.1 | 36.2 | 54.4 |
| 51 | 38.5 | 33.0 | 49.6 |

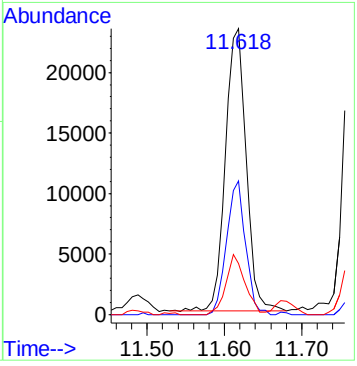


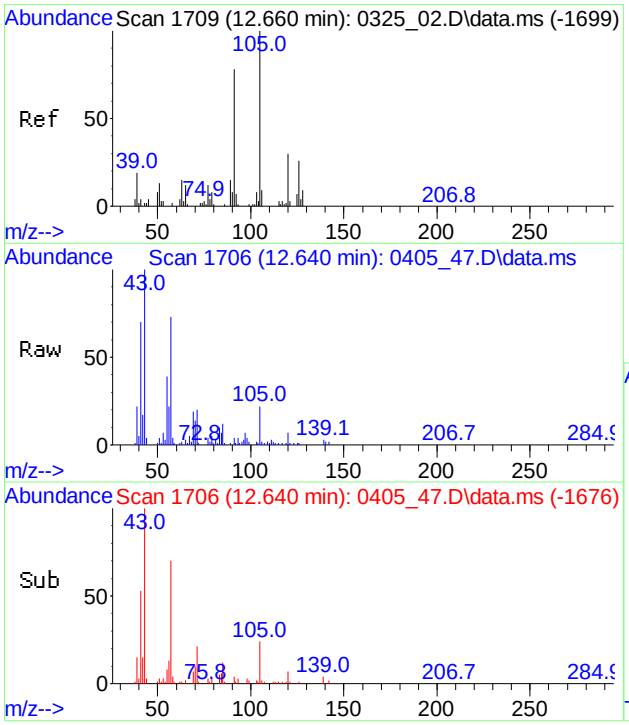




#61
o-Xylene
Conc: 8$ 0.458 ppbv
RT: 11.618 min Scan# 1553
Delta R.T. 0.014 min
Lab File: 0405_47.D
Acq: 6 Apr 2021 7:32 pm

Tgt Ion: 91 Resp: 43873

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 42.9 | 37.5 | 56.3 |
| 105 | 19.5 | 15.1 | 22.7 |

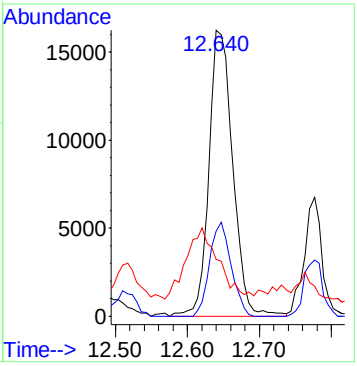


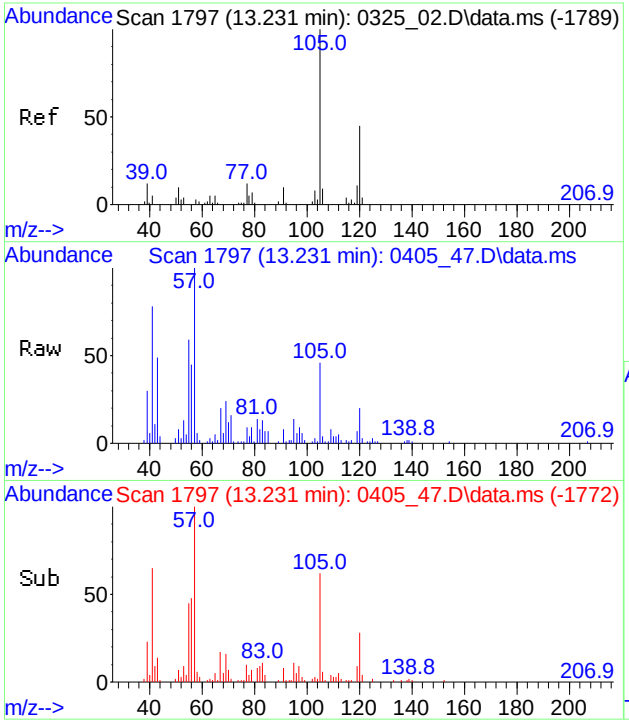



#66
4-Ethyltoluene
Conc: 8$ 0.264 ppbv
RT: 12.640 min Scan# 1706
Delta R.T. -0.006 min
Lab File: 0405_47.D
Acq: 6 Apr 2021 7:32 pm

Tgt Ion:105 Resp: 37407

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 29.7 | 24.0 | 36.0 |
| 77 | 34.5 | 9.2 | 13.8# |

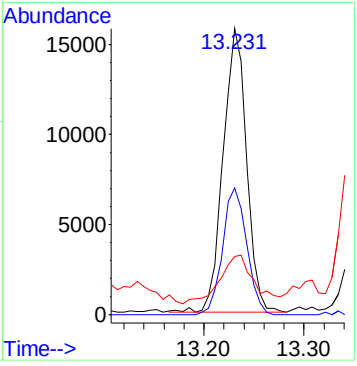


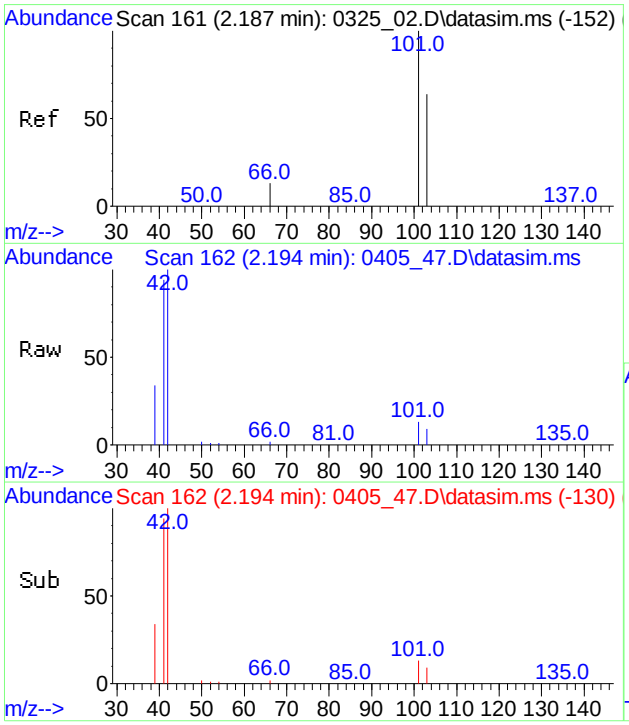




#68
1,2,4-Trimethylbenzene
Conc: 8$ 0.232 ppbv
RT: 13.231 min Scan# 1797
Delta R.T. 0.014 min
Lab File: 0405_47.D
Acq: 6 Apr 2021 7:32 pm

Tgt Ion:105 Resp: 25660

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 45.7 | 36.7 | 55.1 |
| 77 | 24.6 | 10.0 | 15.0# |

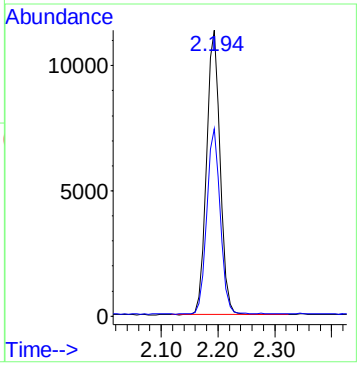


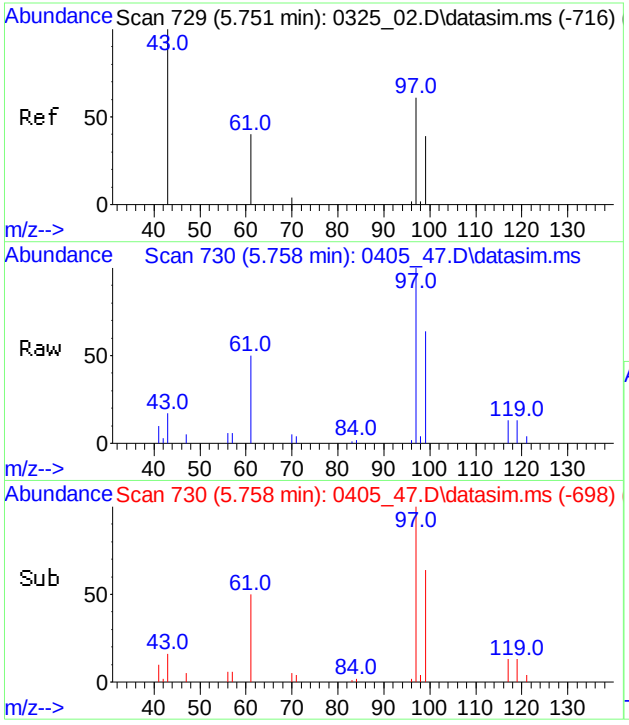



#84
Trichlorofluoromethane(sim)
Conc: 8$ 0.195 ppbv
RT: 2.194 min Scan# 162
Delta R.T. 0.021 min
Lab File: 0405_47.D
Acq: 6 Apr 2021 7:32 pm

Tgt Ion:101 Resp: 18995

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 64.6 | 51.9 | 77.9 |

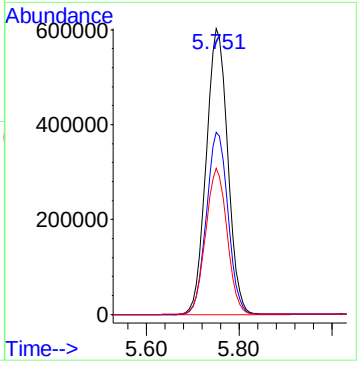


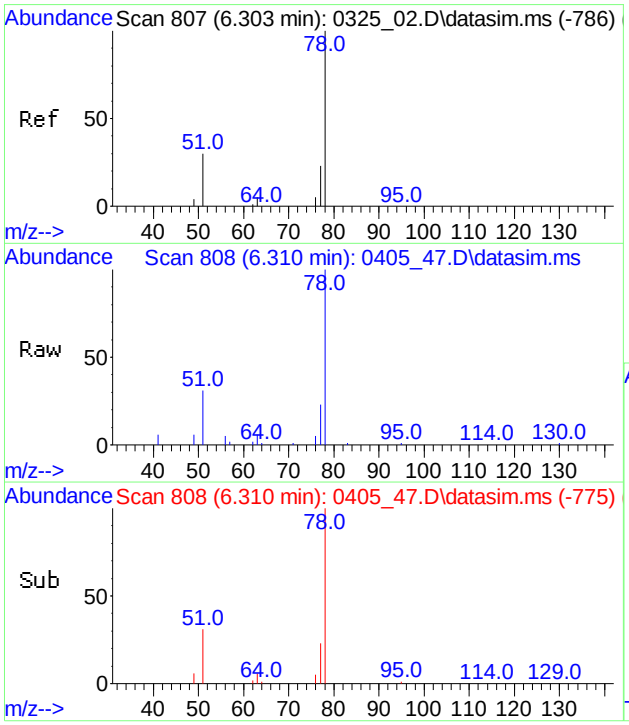




#85
1,1,1-Trichloroethane(sim)
Conc: 8$ 25.314 ppbv
RT: 5.755 min Scan# 730
Delta R.T. 0.029 min
Lab File: 0405_47.D
Acq: 6 Apr 2021 7:32 pm

Tgt Ion: 97 Resp: 1830319

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 63.6 | 64.0 | 64.0# |
| 61 | 51.2 | 50.0 | 75.0 |

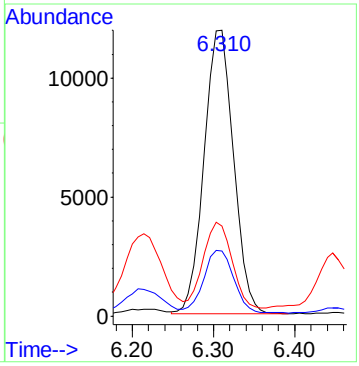


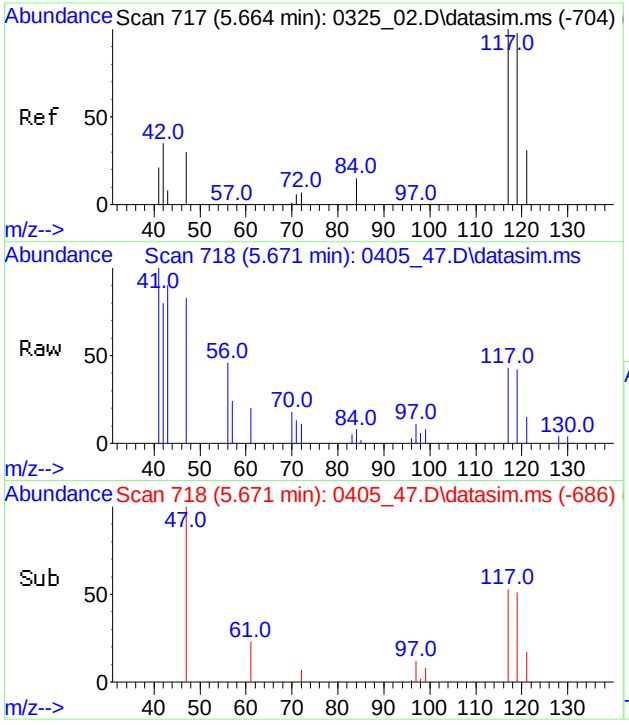



#86
Benzene(sim)
Conc: 8$ 0.376 ppbv
RT: 6.310 min Scan# 808
Delta R.T. 0.028 min
Lab File: 0405_47.D
Acq: 6 Apr 2021 7:32 pm

Tgt Ion: 78 Resp: 29998

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 22.1 | 18.0 | 27.0 |
| 51 | 29.2 | 23.9 | 35.9 |

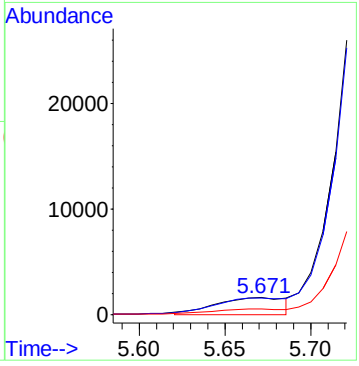


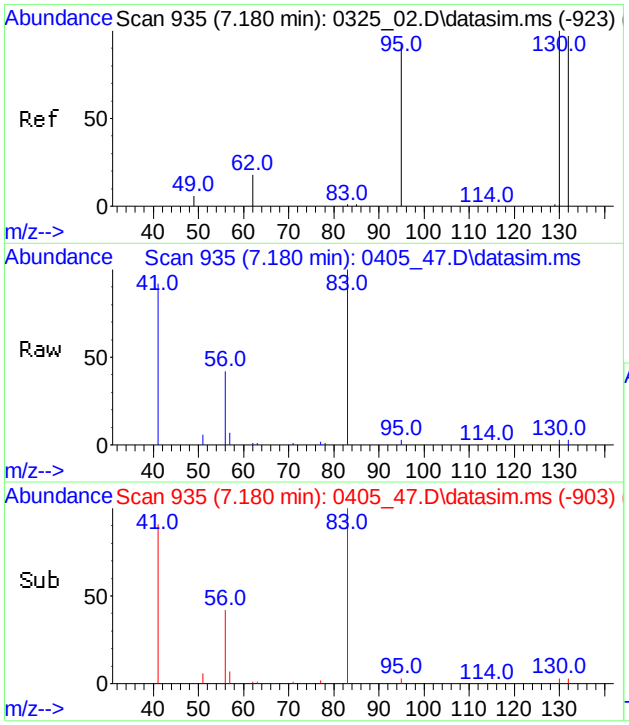




#87
Carbon Tetrachloride(sim)
Conc: 8$ 0.055 ppbv
RT: 5.671 min Scan# 718
Delta R.T. 0.032 min
Lab File: 0405_47.D
Acq: 6 Apr 2021 7:32 pm

Tgt Ion:117 Resp: 4554

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 5204.6 | 78.4 | 117.6# |
| 121 | 1687.7 | 25.7 | 38.5# |

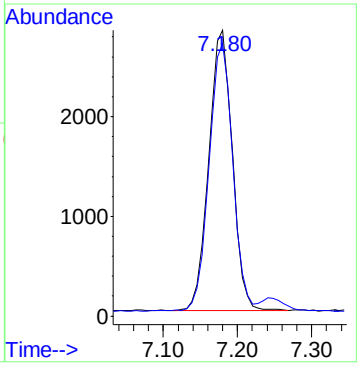


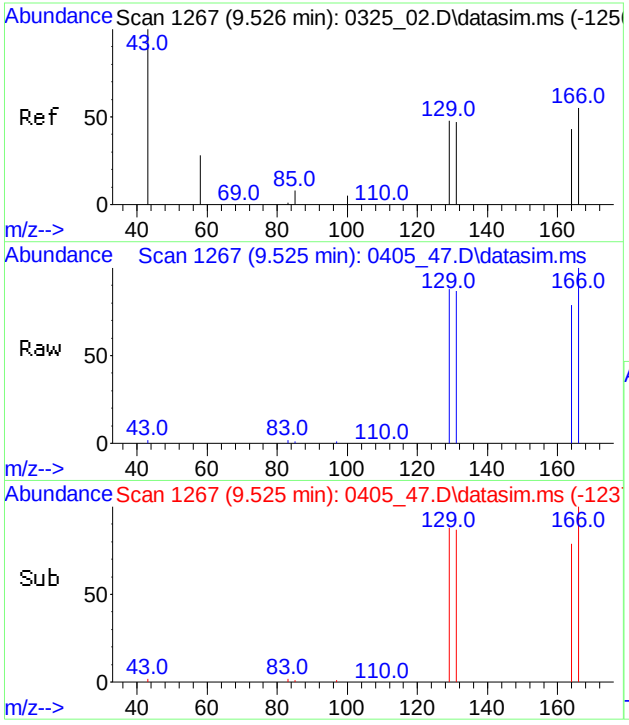



#98
Trichloroethene(sim)
Conc: 8$ 0.130 ppbv
RT: 7.180 min Scan# 935
Delta R.T. 0.021 min
Lab File: 0405_47.D
Acq: 6 Apr 2021 7:32 pm

Tgt Ion:130 Resp: 6216

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 132 | 96.7 | 77.1 | 115.7 |

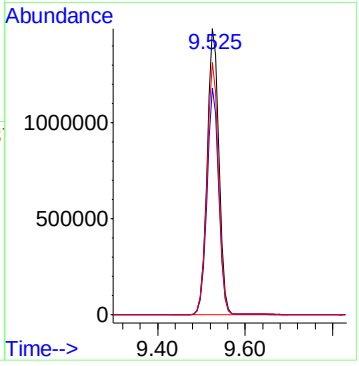


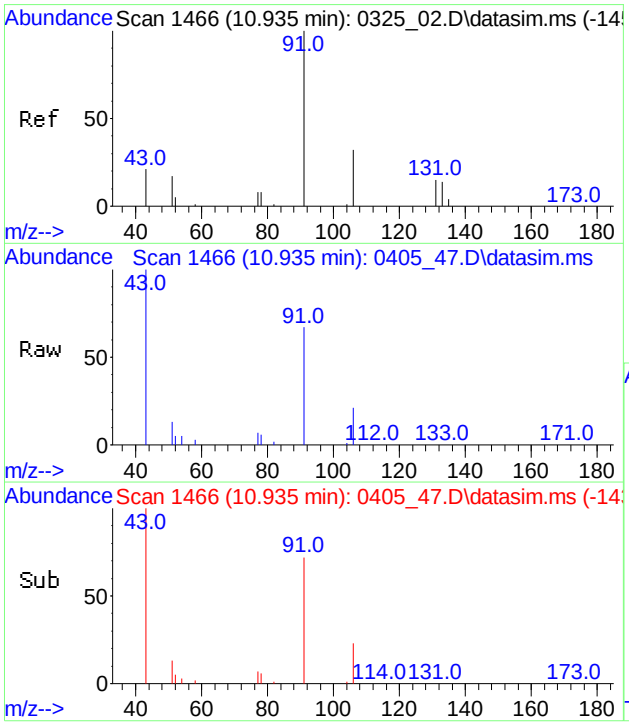




#104
Tetrachloroethene(sim)
Conc: 8$ 50.178 ppbv
RT: 9.525 min Scan# 1267
Delta R.T. 0.014 min
Lab File: 0405_47.D
Acq: 6 Apr 2021 7:32 pm

Tgt Ion:166 Resp: 2797817

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 164 | 78.8 | 58.4 | 98.4 |
| 129 | 87.9 | 66.6 | 106.6 |

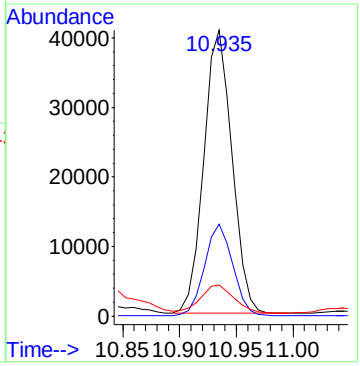


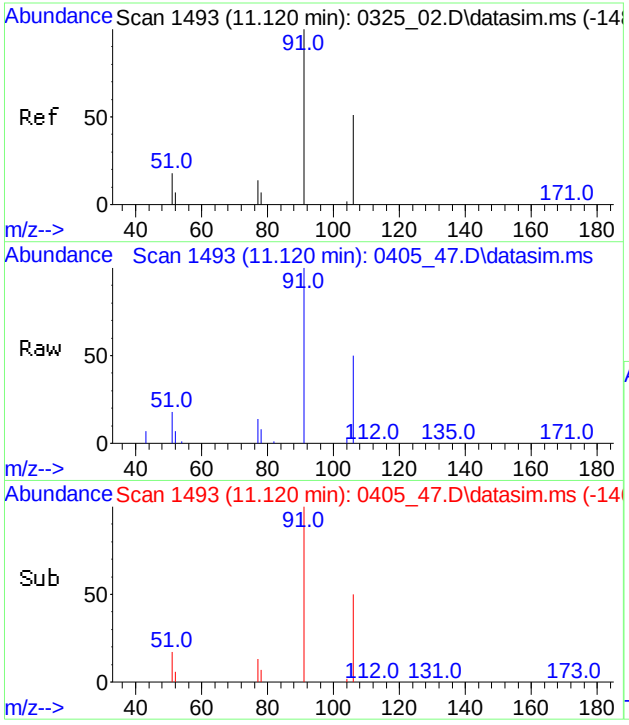



#108
Ethylbenzene(sim)
Conc: 8$ 0.506 ppb
RT: 10.935 min Scan# 1466
Delta R.T. 0.014 min
Lab File: 0405_47.D
Acq: 6 Apr 2021 7:32 pm

Tgt Ion: 91 Resp: 70332

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 32.2 | 25.8 | 38.8 |
| 77 | 11.8 | 7.0 | 10.6# |

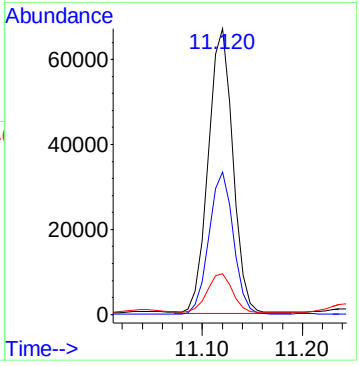


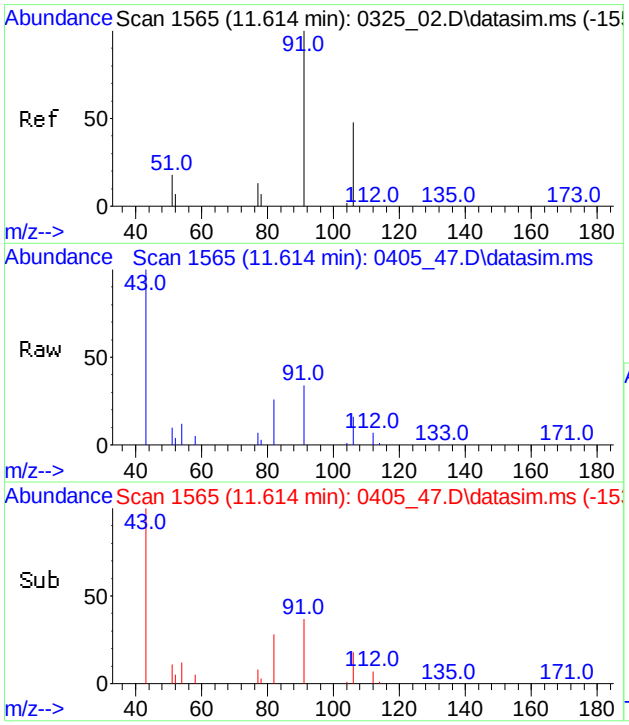




#109
m,p-Xylene(sim)
Conc: 8$ 1.133 ppbv
RT: 11.117 min Scan# 1493
Delta R.T. 0.013 min
Lab File: 0405_47.D
Acq: 6 Apr 2021 7:32 pm

Tgt Ion: 91 Resp: 107238

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 47.8 | 44.8 | 54.8 |
| 77 | 14.4 | 10.5 | 15.7 |

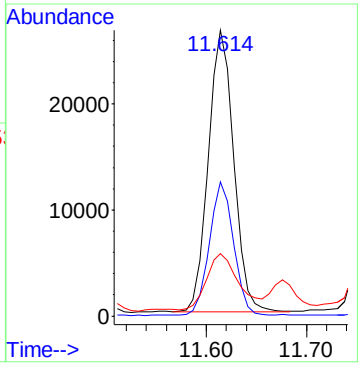





#110
o-Xylene(sim)
Conc: 8$ 0.471 ppb
RT: 11.614 min Scan# 1565
Delta R.T. 0.014 min
Lab File: 0405_47.D
Acq: 6 Apr 2021 7:32 pm

Tgt Ion: 91 Resp: 46592

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 45.1 | 37.6 | 56.4 |
| 77 | 25.1 | 9.8 | 14.8# |



1

AIR ANALYSIS DATA SHEET

CLIENT ID: SS-4 5X

Client: GC-ENV Lab: Phoenix Env. Labs

SDG No.: GCH92051 Lab Sample ID: CH92057 5X

Canister: 479 Lab File ID: 0405_24.D

Instrument: CHEM20 Column: RTX-1 60M Date Received: 04/05/21

Purge Volume 200 (cc) Date Analyzed: 04/05/21

Matrix: AIR Dilution Factor: 5

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

| CAS NO. | COMPOUND | CONC. | Q | MDL | PQL | R |
|---|---|---|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 1.01 | U | 1.01 | 1.01 | |
| 64-17-5 | Ethanol | 176 | DS | 2.66 | 2.66 | r |
| 67-64-1 | Acetone | 46.4 | X | 2.11 | 2.11 | |
| 67-63-0 | Isopropylalcohol | 13.7 | X | 2.04 | 2.04 | |
| 75-15-0 | Carbon Disulfide | 3.29 | X | 1.61 | 1.61 | |
| 78-93-3 | Methyl Ethyl Ketone | 1.70 | U | 1.70 | 1.70 | |
| 110-54-3 | Hexane | 4.76 | X | 1.42 | 1.42 | |
| 71-55-6 | 1,1,1-Trichloroethane | 31.2 | X | 0.917 | 0.917 | |
| 110-82-7 | Cyclohexane | 4.22 | X | 1.45 | 1.45 | |
| 142-82-5 | Heptane | 6.24 | X | 1.22 | 1.22 | |
| 108-88-3 | Toluene | 3.30 | X | 1.33 | 1.33 | |
| 127-18-4 | Tetrachloroethene | 54.3 | D | 0.184 | 0.184 | r |
| 100-41-4 | Ethylbenzene | 1.15 | U | 1.15 | 1.15 | |
| 100-42-5 | Styrene | 1.17 | U | 1.17 | 1.17 | |
| 95-47-6 | o-Xylene | 1.15 | U | 1.15 | 1.15 | |
| 622-96-8 | 4-Ethyltoluene | 1.02 | U | 1.02 | 1.02 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | 1.02 | U | 1.02 | 1.02 | |
| 75-69-4 | Trichlorofluoromethane(sim) | 0.890 | U | 0.890 | 0.890 | |
| 71-43-2 | Benzene(sim) | 1.57 | U | 1.57 | 1.57 | |
| 56-23-5 | Carbon Tetrachloride(sim) | 0.159 | U | 0.159 | 0.159 | |
| 79-01-6 | Trichloroethene(sim) | 0.186 | U | 0.186 | 0.186 | |
| 179601-23-1 | m,p-Xylene(sim) | 1.28 | X | 1.15 | 1.15 | |

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:\AIR2021\CHEM20\04APR\05\
Data File : 0405_24.D
Acq On : 5 Apr 2021 11:57 pm
Operator :
Client ID : SS-4 5X
Lab ID : CH92057 5X
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Apr 06 08:26:52 2021
Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0329.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Mar 29 13:12:48 2021
Response via : Initial Calibration

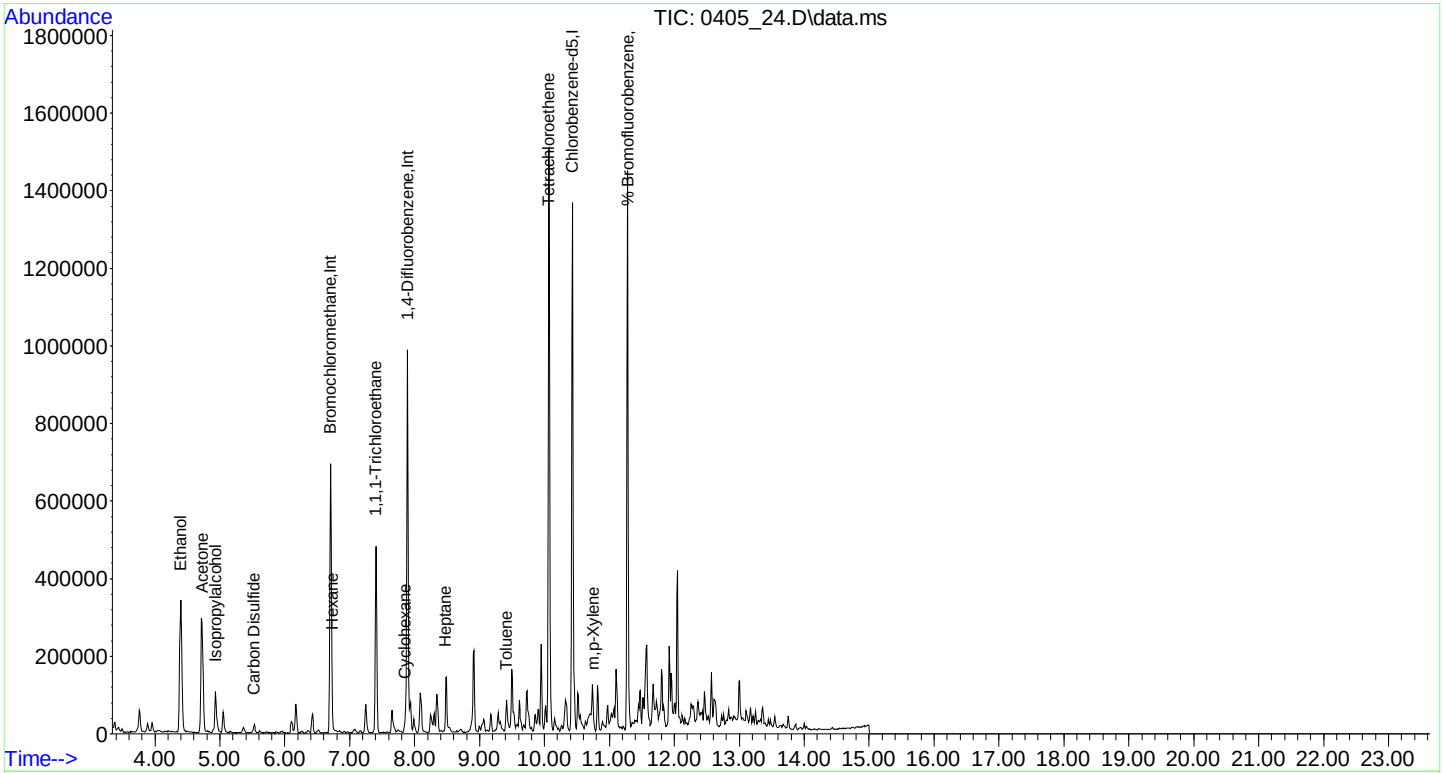
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Bromochloromethane | 6.704 | 130 | 137477 | 10.000 | ng | | 0.00 |
| 37) 1,4-Difluorobenzene | 7.889 | 114 | 525740 | 10.000 | ng | | 0.00 |
| 54) Chlorobenzene-d5 | 10.430 | 82 | 272361 | 10.000 | ng | | 0.00 |
| 81) Bromochloromethane(sim) | 6.710 | 130 | 160068 | 10.000 | ng | # | 0.00 |
| 96) 1,4-Difluorobenzene(sim) | 7.889 | 114 | 525211 | 10.000 | ng | | 0.00 |
| 106) Chlorobenzene-d5(sim) | 10.430 | 82 | 272361 | 10.000 | ng | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 63) % Bromofluorobenzene | 11.281 | 95 | 321263 | 10.008 | ppbv | | 0.00 |
| Spiked Amount 10.000 | Range 70 - 130 | | Recovery = 100.10% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 11) Ethanol | 4.394 | 45 | 408958 | 35.250 | ppbv# | | 74 |
| 12) Acetone | 4.728 | 43 | 393157 | 9.271 | ppbv# | | 85 |
| 14) Isopropylalcohol | 4.933 | 45 | 142005 | 2.733 | ppbv# | | 87 |
| 20) Carbon Disulfide | 5.528 | 76 | 24775 | 0.658 | ppbv | | 98 |
| 28) Hexane | 6.725 | 57 | 30671 | 0.953 | ppbv | | 99 |
| 33) 1,1,1-Trichloroethane | 7.402 | 97 | 235698 | 6.241 | ppbv | | 95 |
| 36) Cyclohexane | 7.855 | 41 | 21269 | 0.845 | ppbv# | | 70 |
| 40) Trichloroethene | 8.334 | 130 | 696 | 0.034 | ppbv# | | 85 |
| 44) Heptane | 8.479 | 43 | 65564 | 1.248 | ppbv# | | 95 |
| 49) Toluene | 9.415 | 91 | 33160 | 0.661 | ppbv | | 97 |
| 53) Tetrachloroethene | 10.065 | 166 | 273445 | 10.853 | ppbv | | 84 |
| 58) m,p-Xylene | 10.748 | 91 | 13646 | 0.275 | ppbv | | 98 |
| 87] 1,1,1-Trichloroethane(... | 7.408 | 97 | 254208 | 5.985 | ppbv# | | 97 |
| 105] Tetrachloroethene(sim) | 10.071 | 166 | 329690 | 11.000 | ppbv | | 98 |
| 108] m,p-Xylene(sim) | 10.748 | 91 | 13646 | 0.255 | ppbv | | 98 |

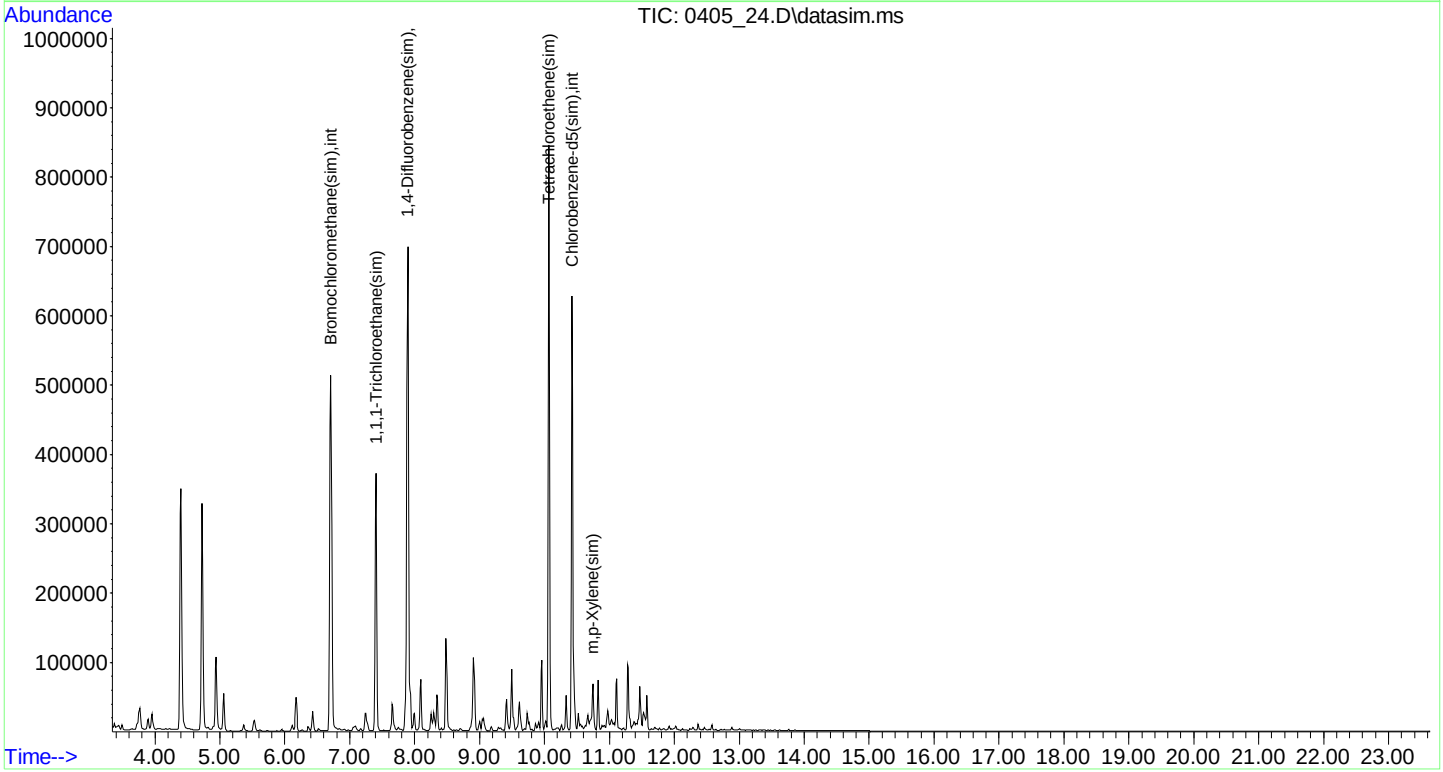
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

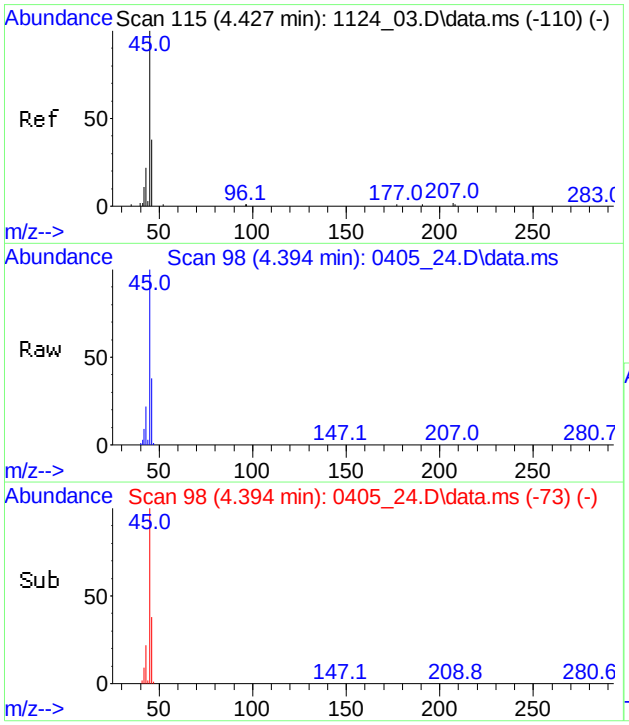
Quantitation Report (QT Reviewed)

Data Path : H:\AIR2021\CHEM20\04APR\05\
Data File : 0405_24.D
Acq On : 5 Apr 2021 11:57 pm
Operator :
Client ID : SS-4 5X
Lab ID : CH92057 5X
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Apr 06 08:26:52 2021
Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0329.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Mar 29 13:12:48 2021
Response via : Initial Calibration



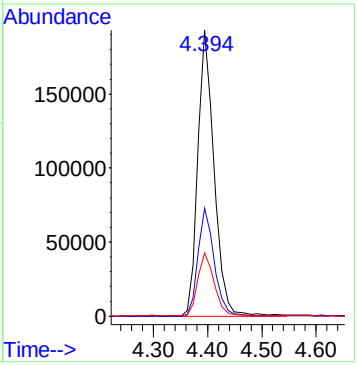



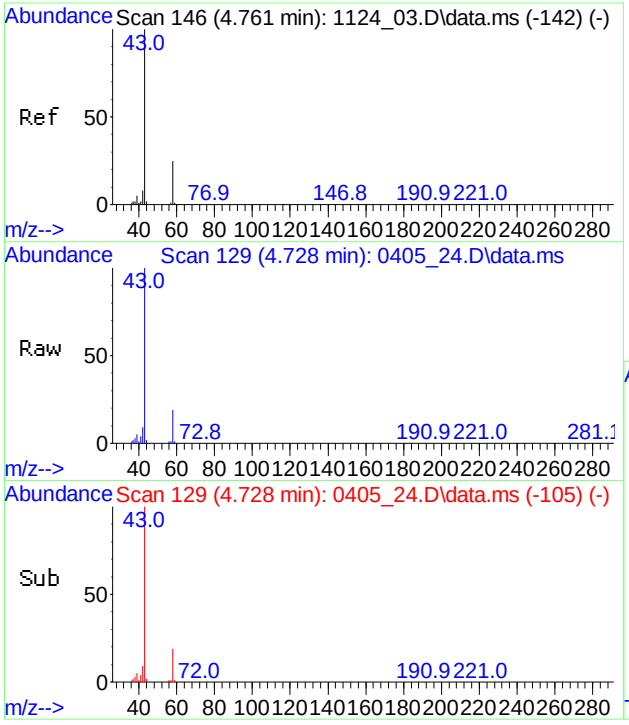



#11
Ethanol
Conc: 8$ 35.250 ppbv
RT: 4.394 min Scan# 98
Delta R.T. -0.032 min
Lab File: 0405_24.D
Acq: 5 Apr 2021 11:57 pm

Tgt Ion: 45 Resp: 408958

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 37.5 | 0.0 | 0.0# |
| 43 | 22.6 | 10.0 | 15.0# |

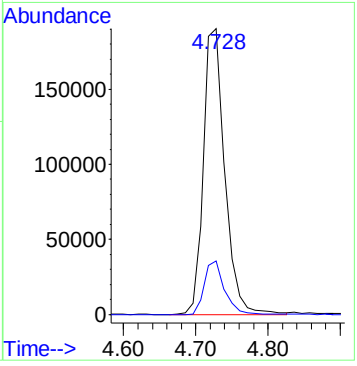


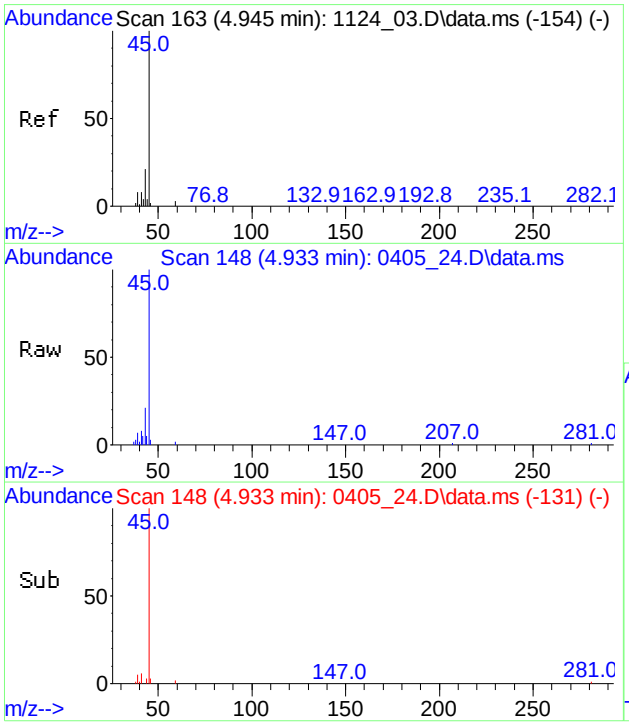




#12
Acetone
Conc: 8$ 9.271 ppbv
RT: 4.728 min Scan# 129
Delta R.T. -0.043 min
Lab File: 0405_24.D
Acq: 5 Apr 2021 11:57 pm

Tgt Ion: 43 Resp: 393157

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 18.0 | 20.4 | 30.6# |

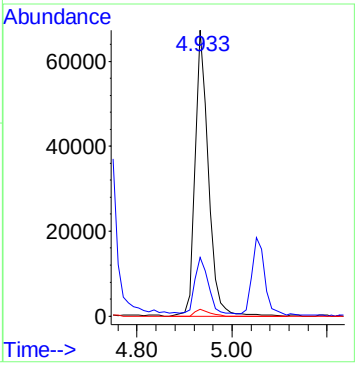


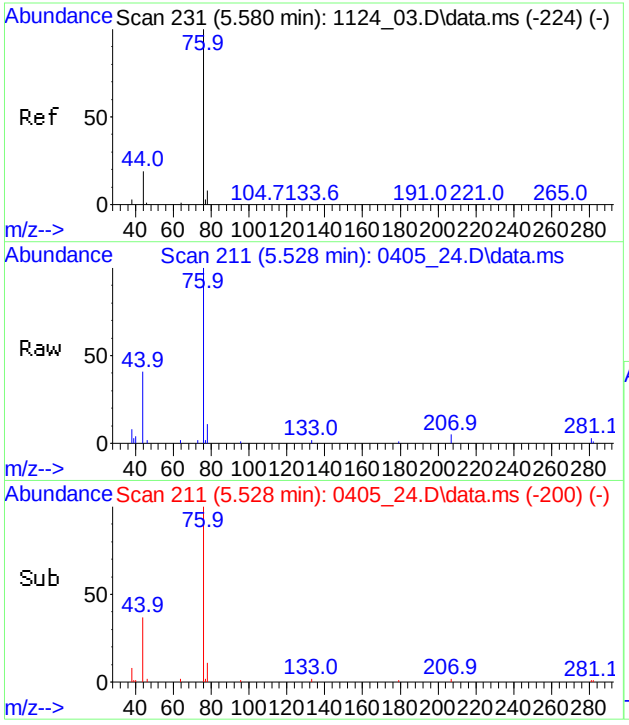



#14
Isopropylalcohol
Conc: 8$ 2.733 ppbv
RT: 4.933 min Scan# 148
Delta R.T. -0.022 min
Lab File: 0405_24.D
Acq: 5 Apr 2021 11:57 pm

Tgt Ion: 45 Resp: 142005

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 18.6 | 20.6 | 31.0# |
| 59 | 2.4 | 2.1 | 3.1 |

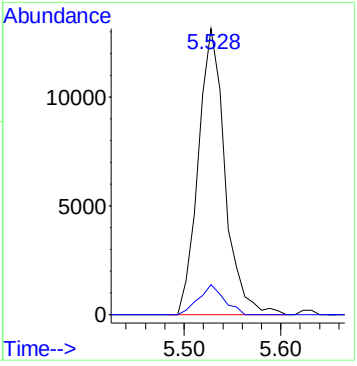


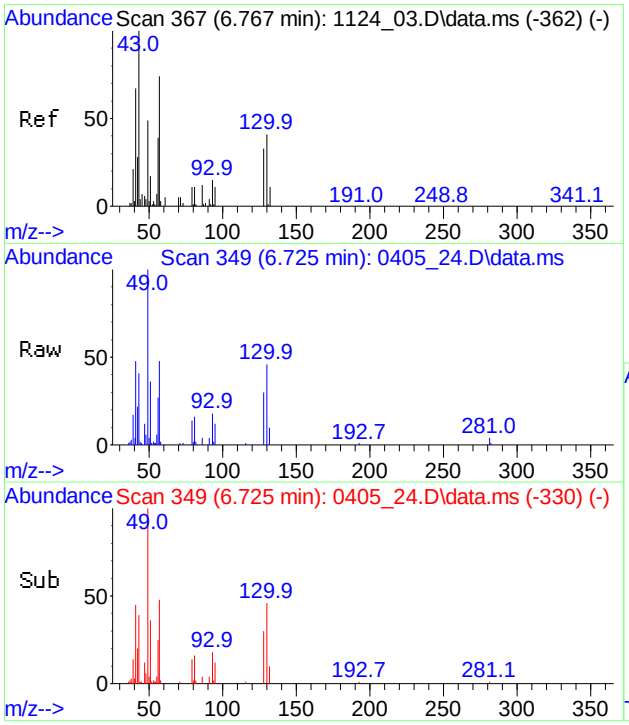




#20
Carbon Disulfide
Conc: 8$ 0.658 ppbv
RT: 5.528 min Scan# 211
Delta R.T. -0.009 min
Lab File: 0405_24.D
Acq: 5 Apr 2021 11:57 pm

Tgt Ion: 76 Resp: 24775

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 10.0 | 8.7 | 13.1 |

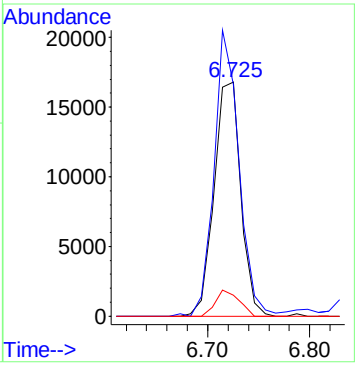


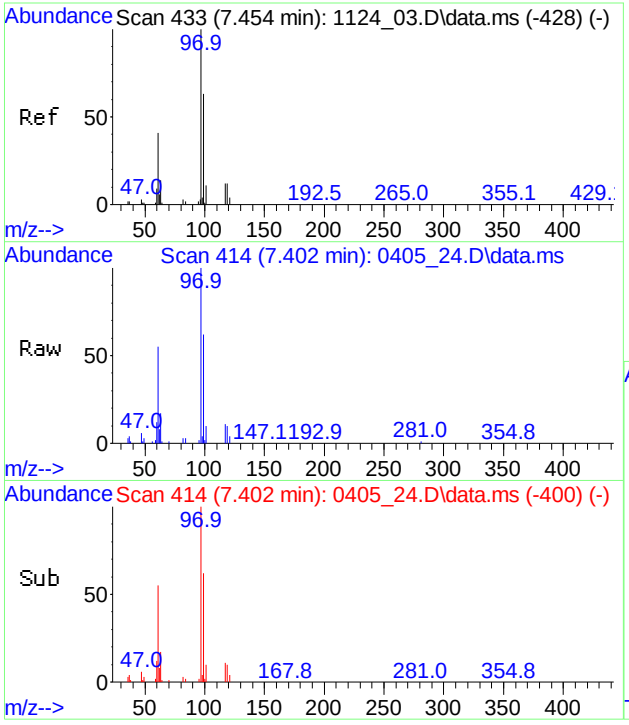



#28
Hexane
Conc: 8$ 0.953 ppbv
RT: 6.725 min Scan# 349
Delta R.T. -0.000 min
Lab File: 0405_24.D
Acq: 5 Apr 2021 11:57 pm

Tgt Ion: 57 Resp: 30671

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 113.5 | 91.8 | 137.8 |
| 86 | 9.8 | 7.4 | 11.2 |

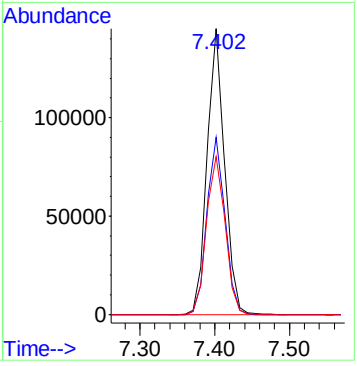


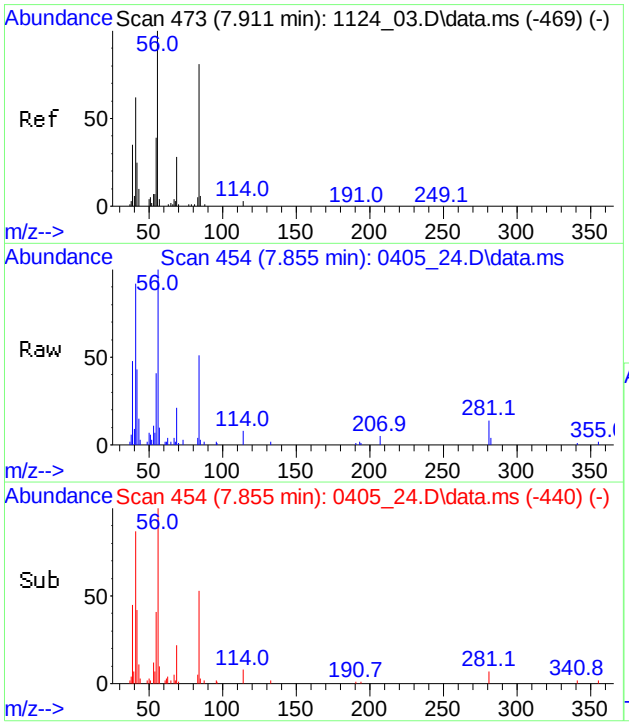




#33
1,1,1-Trichloroethane
Conc: 8$ 6.241 ppbv
RT: 7.402 min Scan# 414
Delta R.T. 0.000 min
Lab File: 0405_24.D
Acq: 5 Apr 2021 11:57 pm

Tgt Ion: 97 Resp: 235698

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 64.2 | 53.8 | 80.8 |
| 61 | 59.1 | 51.4 | 77.0 |

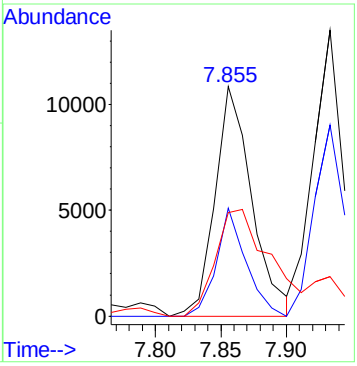


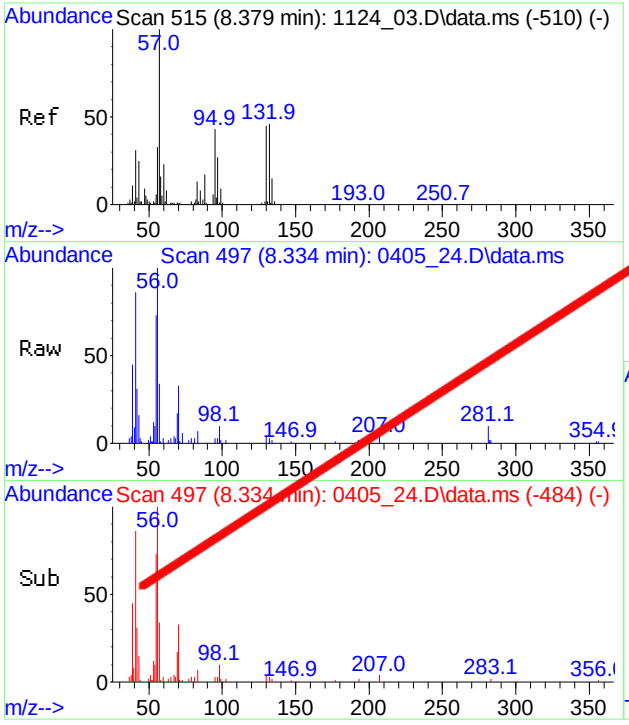



#36
Cyclohexane
Conc: 8$ 0.845 ppbv
RT: 7.855 min Scan# 454
Delta R.T. 0.000 min
Lab File: 0405_24.D
Acq: 5 Apr 2021 11:57 pm

Tgt Ion: 41 Resp: 21269

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 37.9 | 36.9 | 55.3 |
| 55 | 68.5 | 86.2 | 129.4# |

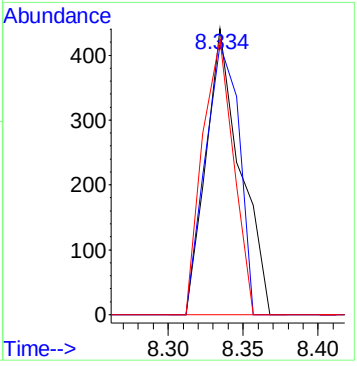


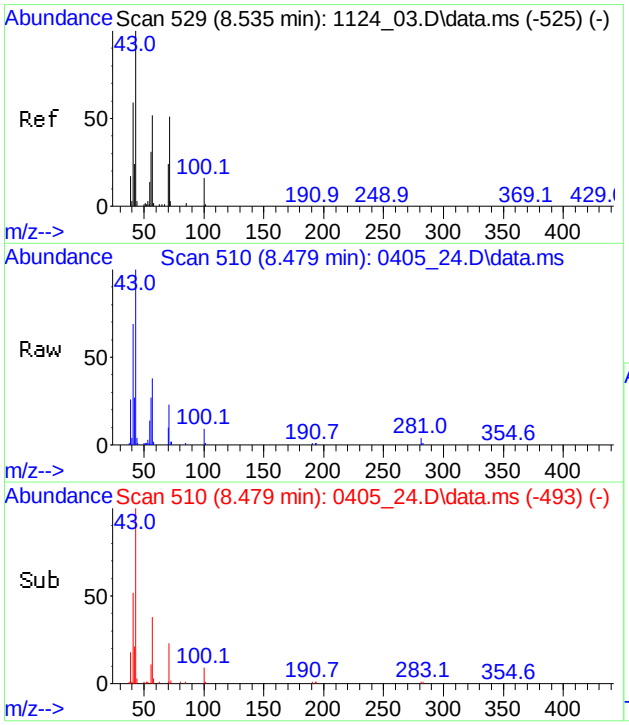




#40
Trichloroethene
Conc: 8$ Below Cal
RT: 8.334 min Scan# 497
Delta R.T. 0.000 min
Lab File: 0405_24.D
Acq: 5 Apr 2021 11:57 pm

Tgt Ion:130 Resp: 696

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 132 | 92.8 | 85.0 | 127.6 |
| 97 | 86.8 | 57.5 | 86.3# |

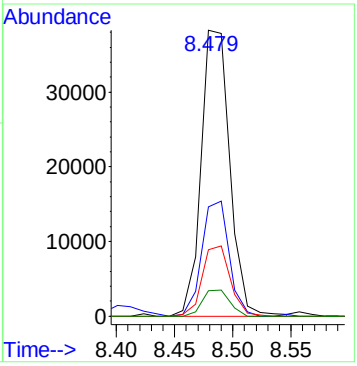


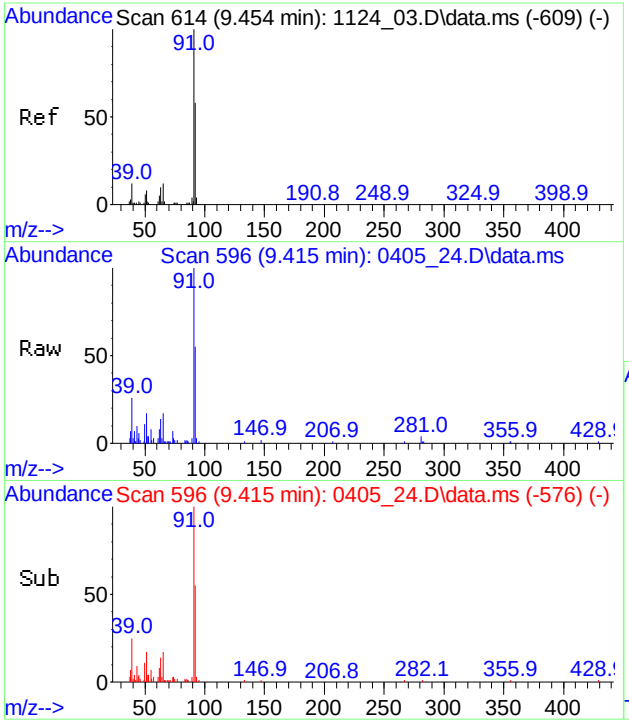



#44
Heptane
Conc: 8$ 1.248 ppbv
RT: 8.479 min Scan# 510
Delta R.T. -0.011 min
Lab File: 0405_24.D
Acq: 5 Apr 2021 11:57 pm

Tgt Ion: 43 Resp: 65564

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 57 | 38.3 | 31.5 | 47.3 |
| 71 | 24.0 | 24.0 | 36.0# |
| 100 | 8.7 | 7.0 | 10.6 |

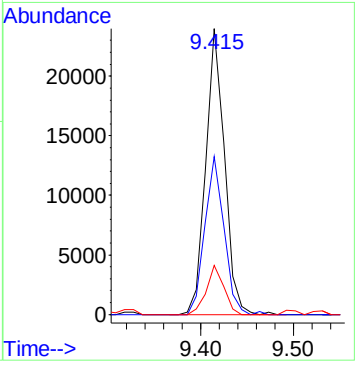


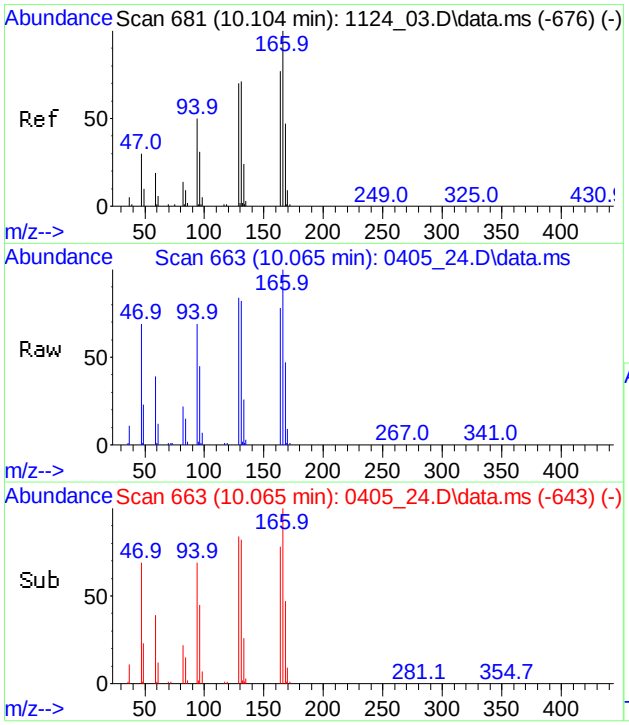




#49
Toluene
Conc: 8$ 0.661 ppbv
RT: 9.415 min Scan# 596
Delta R.T. -0.009 min
Lab File: 0405_24.D
Acq: 5 Apr 2021 11:57 pm

Tgt Ion: 91 Resp: 33160

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 56.6 | 46.8 | 70.2 |
| 65 | 16.0 | 11.5 | 17.3 |

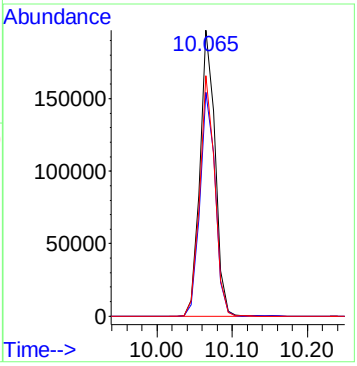


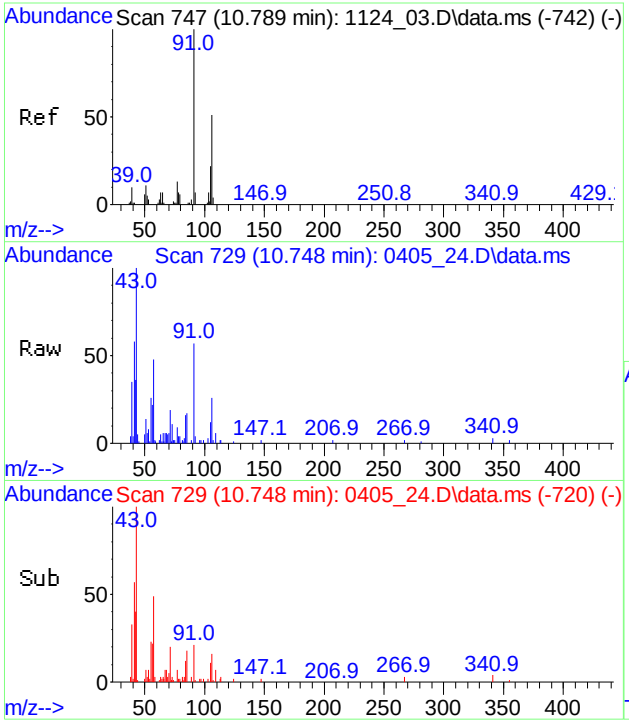



#53
Tetrachloroethene
Conc: 8$ 10.853 ppbv
RT: 10.065 min Scan# 663
Delta R.T. -0.010 min
Lab File: 0405_24.D
Acq: 5 Apr 2021 11:57 pm

Tgt Ion:166 Resp: 273445

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 164 | 78.6 | 52.6 | 78.8 |
| 129 | 82.8 | 55.5 | 83.3 |

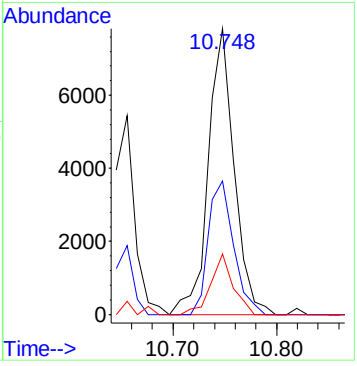


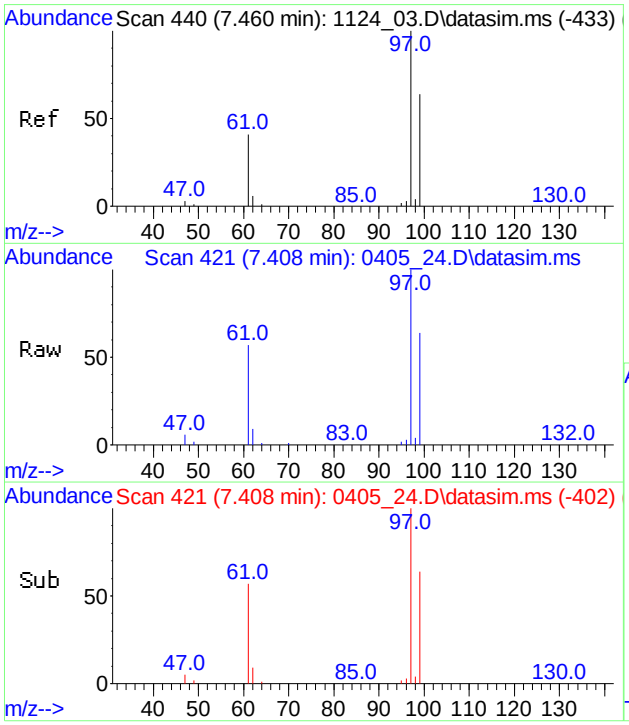




#58
m,p-Xylene
Conc: 8$ 0.275 ppbv
RT: 10.748 min Scan# 729
Delta R.T. -0.010 min
Lab File: 0405_24.D
Acq: 5 Apr 2021 11:57 pm

Tgt Ion: 91 Resp: 13646

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 45.6 | 36.6 | 54.8 |
| 105 | 18.2 | 17.4 | 26.0 |

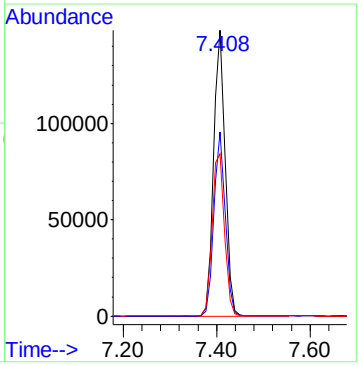


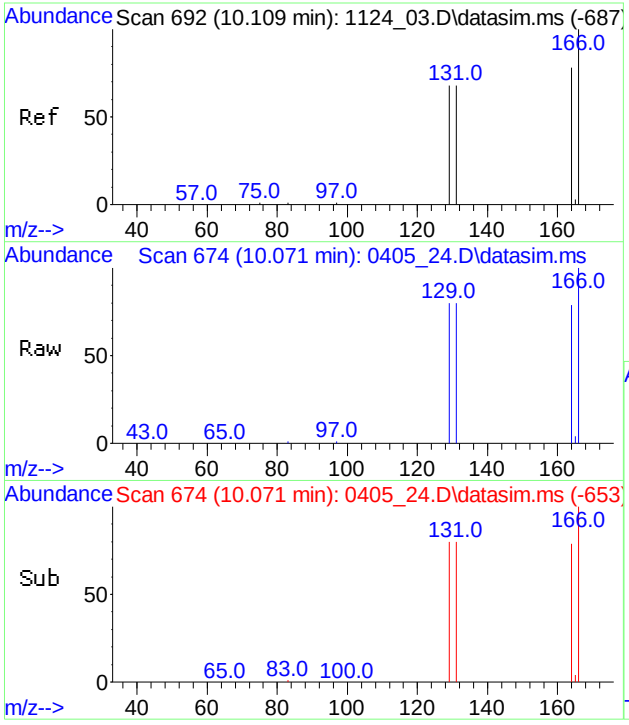



#87
1,1,1-Trichloroethane(sim)
Conc: 8$ 5.985 ppbv
RT: 7.408 min Scan# 421
Delta R.T. 0.001 min
Lab File: 0405_24.D
Acq: 5 Apr 2021 11:57 pm

Tgt Ion: 97 Resp: 254208

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 63.7 | 62.4 | 62.4# |
| 61 | 60.6 | 46.0 | 69.0 |

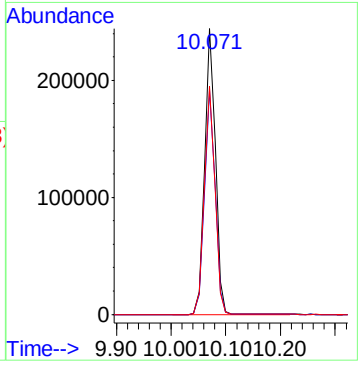


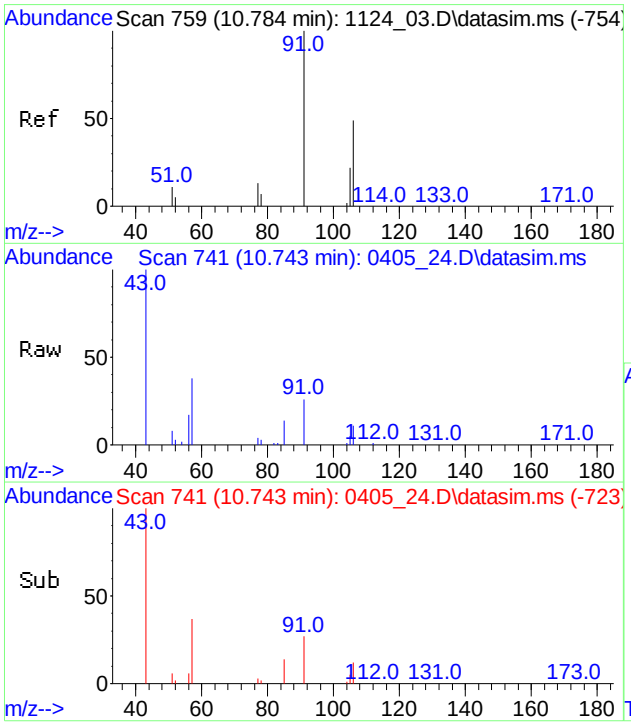




#105
Tetrachloroethene(sim)
Conc: 8$ 11.000 ppbv
RT: 10.071 min Scan# 674
Delta R.T. 0.001 min
Lab File: 0405_24.D
Acq: 5 Apr 2021 11:57 pm

Tgt Ion:166 Resp: 329690

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 164 | 78.5 | 58.1 | 98.1 |
| 129 | 79.6 | 56.6 | 96.6 |

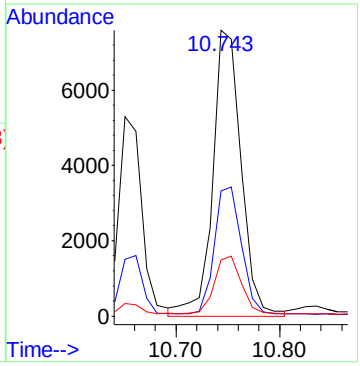





#108
m,p-Xylene(sim)
Conc: 8$ 0.255 ppbv
RT: 10.748 min Scan# 741
Delta R.T. -0.010 min
Lab File: 0405_24.D
Acq: 5 Apr 2021 11:57 pm

Tgt Ion: 91 Resp: 13646

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 45.6 | 41.1 | 50.3 |
| 105 | 18.2 | 17.4 | 26.0 |



1

AIR ANALYSIS DATA SHEET

CLIENT ID: SS-11 (5')

Client: GC-ENV | Lab: Phoenix Env. Labs

SDG No.: GCH92051 | Lab Sample ID: CH92058

Canister: 484 | Lab File ID: 0405_48.D

Instrument: CHEM24 | Column: RTX-VMS | Date Received: 04/05/21

Purge Volume: 200 (cc) | Date Analyzed: 04/06/21

Matrix: AIR | Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

| CAS NO. | COMPOUND | CONC. | Q | MDL | PQL | R |
|---|---|---|---|---|---|---|
| 115-07-1 | Propylene | 55.4 | E | 0.581 | 0.581 | |
| 75-71-8 | Dichlorodifluoromethane | 0.381 | | 0.202 | 0.202 | r |
| 74-87-3 | Chloromethane | 0.485 | U | 0.485 | 0.485 | r |
| 106-99-0 | 1,3-Butadiene | 4.63 | | 0.452 | 0.452 | r |
| 75-00-3 | Chloroethane | 0.379 | U | 0.379 | 0.379 | r |
| 64-17-5 | Ethanol | 5.83 | S | 0.531 | 0.531 | r |
| 67-64-1 | Acetone | 29.5 | S | 0.421 | 0.421 | r |
| 67-63-0 | Isopropylalcohol | 0.407 | U | 0.407 | 0.407 | r |
| 107-13-1 | Acrylonitrile | 0.461 | U | 0.461 | 0.461 | r |
| 75-35-4 | 1,1-Dichloroethene | 0.452 | | 0.051 | 0.051 | r |
| 75-09-2 | Methylene Chloride | 0.864 | U | 0.864 | 0.864 | r |
| 75-15-0 | Carbon Disulfide | 0.712 | | 0.321 | 0.321 | r |
| 76-13-1 | Trichlorotrifluoroethane | 0.461 | | 0.131 | 0.131 | r |
| 1634-04-4 | Methyl tert-butyl ether(MTBE) | 0.278 | U | 0.278 | 0.278 | r |
| 78-93-3 | Methyl Ethyl Ketone | 5.86 | | 0.339 | 0.339 | r |
| 110-54-3 | Hexane | 1.51 | S | 0.284 | 0.284 | r |
| 67-66-3 | Chloroform | 1.02 | | 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 |
| 71-55-6 | 1,1,1-Trichloroethane | 29.5 | | 0.183 | 0.183 | r |
| 71-43-2 | Benzene | 1.46 | | 0.313 | 0.313 | r |
| 110-82-7 | Cyclohexane | 0.850 | | 0.291 | 0.291 | r |
| 142-82-5 | Heptane | 1.30 | | 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 | 3.49 | | 0.266 | 0.266 | r |
| 591-78-6 | 2-Hexanone(MBK) | 0.244 | U | 0.244 | 0.244 | r |
| 127-18-4 | Tetrachloroethene | 7.60 | | 0.037 | 0.037 | r |
| 108-90-7 | Chlorobenzene | 0.217 | U | 0.217 | 0.217 | r |
| 100-41-4 | Ethylbenzene | 0.632 | | 0.230 | 0.230 | r |
| 179601-23-1 | m,p-Xylene | 0.730 | | 0.230 | 0.230 | r |
| 100-42-5 | Styrene | 0.643 | | 0.235 | 0.235 | r |
| 95-47-6 | o-Xylene | 0.242 | | 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 |

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-11 (5')

Client: GC-ENV Lab: Phoenix Env. Labs

SDG No.: GCH92051 Lab Sample ID: CH92058

Canister: 484 Lab File ID: 0405_48.D

Instrument: CHEM24 Column: RTX-VMS Date Received: 04/05/21

Purge Volume 200 (cc) Date Analyzed: 04/06/21

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

| CAS NO. | COMPOUND | CONC. | Q | MDL | PQL | 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 |
| 56-23-5 | Carbon Tetrachloride(sim) | 0.060 | | 0.032 | 0.032 | 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) | 0.100 | | 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 |
| 630-20-6 | 1,1,1,2-Tetrachloroethane(sim) | 0.146 | U | 0.146 | 0.146 | 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 |
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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:\AIR2021\CHEM24\04APR\05\
Data File : 0405_48.D
Acq On : 6 Apr 2021 8:07 pm
Operator : Keith
Client ID : SS-11 (5')
Lab ID : CH92058
ALS Vial : 46 Sample Multiplier: 1

Quant Time: Apr 07 08:22:21 2021
Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 26 09:02:26 2021
Response via : Initial Calibration

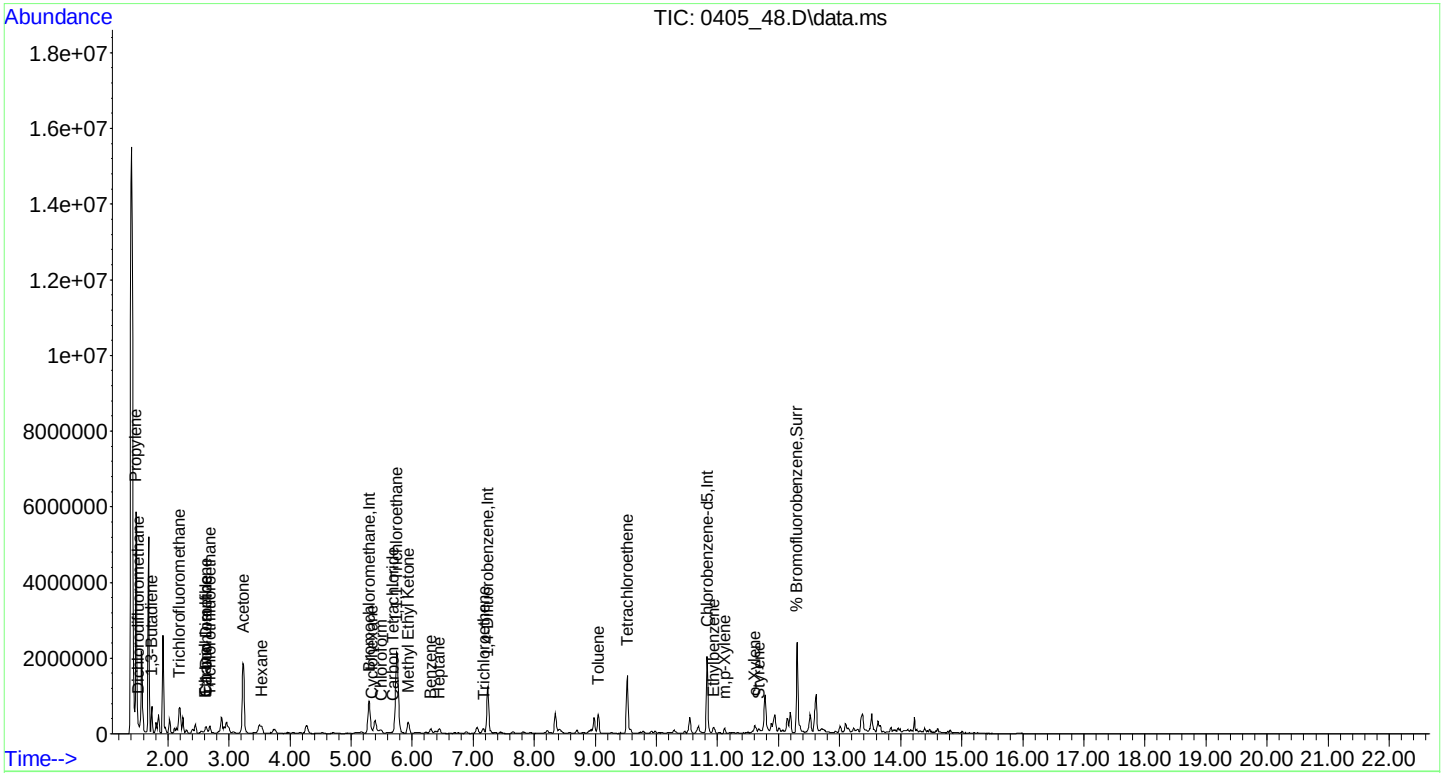
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Bromochloromethane | 5.294 | 130 | 347970 | 10.000 | ng | | 0.03 |
| 36) 1,4-Difluorobenzene | 7.238 | 114 | 1115770 | 10.000 | ng | | 0.01 |
| 53) Chlorobenzene-d5 | 10.830 | 82 | 519518 | 10.000 | ng | | 0.01 |
| 80) Bromochloromethane(sim) | 5.297 | 130 | 360482 | 10.000 | ng | # | 0.03 |
| 95) 1,4-Difluorobenzene(sim) | 7.238 | 114 | 1115770 | 10.000 | ng | | 0.01 |
| 105) Chlorobenzene-d5(sim) | 10.830 | 82 | 519518 | 10.000 | ng | | 0.01 |
| System Monitoring Compounds | | | | | | | |
| 62) % Bromofluorobenzene | 12.303 | 95 | 706044 | 9.799 | ppbv | | 0.00 |
| Spiked Amount 10.000 | Range 70 - 130 | | Recovery = | 98.00% | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) Propylene | 1.478 | 41 | 1920298 | 55.442 | ppbv | | 94 |
| 3) Dichlorodifluoromethane | 1.513 | 85 | 24198 | 0.381 | ppbv# | | 98 |
| 7) 1,3-Butadiene | 1.739 | 54 | 116666 | 4.631 | ppbv# | | 71 |
| 10) Ethanol | 2.615 | 45 | 90173 | 5.832 | ppbv | | 97 |
| 12) Acetone | 3.231 | 43 | 2637019 | 29.480 | ppbv | | 94 |
| 13) Trichlorofluoromethane | 2.191 | 101 | 17151 | 0.192 | ppbv# | | 94 |
| 16) 1,1-Dichloroethene | 2.622 | 61 | 24201 | 0.452 | ppbv | | 98 |
| 20) Carbon Disulfide | 2.629 | 76 | 48919 | 0.712 | ppbv | | 99 |
| 21) Trichlorotrifluoroethane | 2.690 | 101 | 28984 | 0.461 | ppbv | | 97 |
| 25) Methyl Ethyl Ketone | 5.935 | 43 | 540535 | 5.861 | ppbv | | 100 |
| 27) Hexane | 3.539 | 57 | 93903 | 1.512 | ppbv# | | 71 |
| 28) Chloroform | 5.495 | 83 | 67637 | 1.022 | ppbv | | 94 |
| 32) 1,1,1-Trichloroethane | 5.748 | 97 | 2139596 | 29.516 | ppbv | | 93 |
| 33) Benzene | 6.307 | 78 | 105274 | 1.457 | ppbv | | 98 |
| 34) Carbon Tetrachloride | 5.690 | 117 | 4659m | 0.056 | ppbv | | 98 |
| 35) Cyclohexane | 5.337 | 56 | 41432 | 0.850 | ppbv# | | 43 |
| 39) Trichloroethene | 7.177 | 130 | 4982 | 0.111 | ppbv | | 95 |
| 43) Heptane | 6.444 | 43 | 103860 | 1.304 | ppbv | | 94 |
| 48) Toluene | 9.047 | 91 | 317071 | 3.488 | ppbv | | 99 |
| 52) Tetrachloroethene | 9.523 | 166 | 413450 | 7.598 | ppbv | | 98 |
| 56) Ethylbenzene | 10.932 | 91 | 82423 | 0.632 | ppbv | | 98 |
| 57) m,p-Xylene | 11.118 | 91 | 71552 | 0.730 | ppbv | | 99 |
| 59) Styrene | 11.680 | 104 | 45222 | 0.643 | ppbv | | 100 |
| 61) o-Xylene | 11.612 | 91 | 23734 | 0.242 | ppbv | | 95 |
| 85] 1,1,1-Trichloroethane(... | 5.748 | 97 | 2140020 | 28.160 | ppbv# | | 93 |
| 86] Benzene(sim) | 6.310 | 78 | 113954 | 1.358 | ppbv | | 98 |
| 87] Carbon Tetrachloride(sim) | 5.693 | 117 | 5231m | 0.060 | ppbv | | 100 |
| 88] 1,1-Dichloroethene(sim) | 2.625 | 61 | 25071 | 0.403 | ppbv | | 97 |
| 89] Trichlorotrifluoroetha... | 2.690 | 101 | 28984 | 0.426 | ppbv | | 97 |
| 93] Chloroform(sim) | 5.495 | 83 | 67637 | 0.949 | ppbv | | 94 |
| 98] Trichloroethene(sim) | 7.173 | 130 | 5007 | 0.100 | ppbv | | 99 |
| 104] Tetrachloroethene(sim) | 9.526 | 166 | 432016 | 7.404 | ppbv | | 99 |
| 108] Ethylbenzene(sim) | 10.935 | 91 | 86600 | 0.610 | ppb | | 99 |
| 109] m,p-Xylene(sim) | 11.118 | 91 | 71552 | 0.740 | ppbv | | 98 |
| 110] o-Xylene(sim) | 11.615 | 91 | 25620 | 0.253 | ppb # | | 89 |

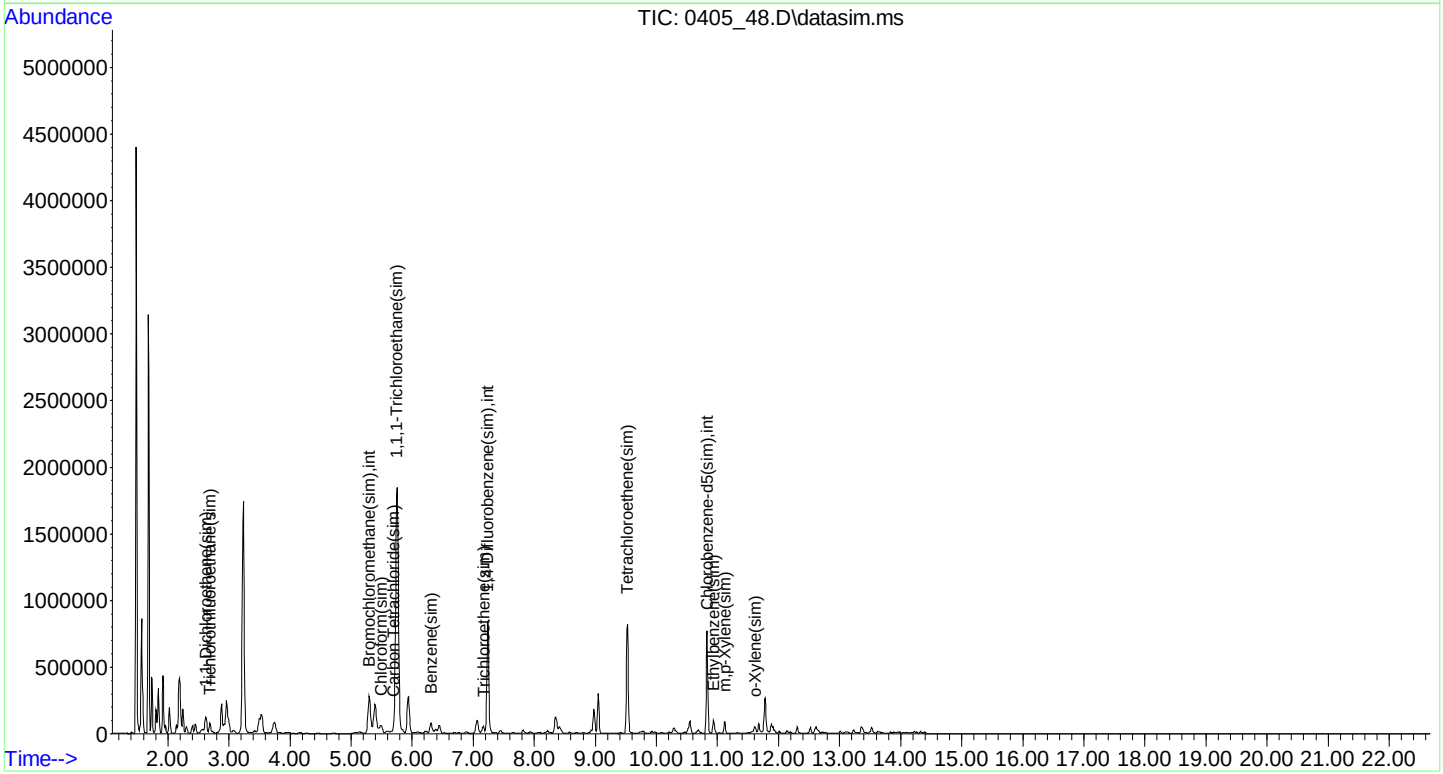
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

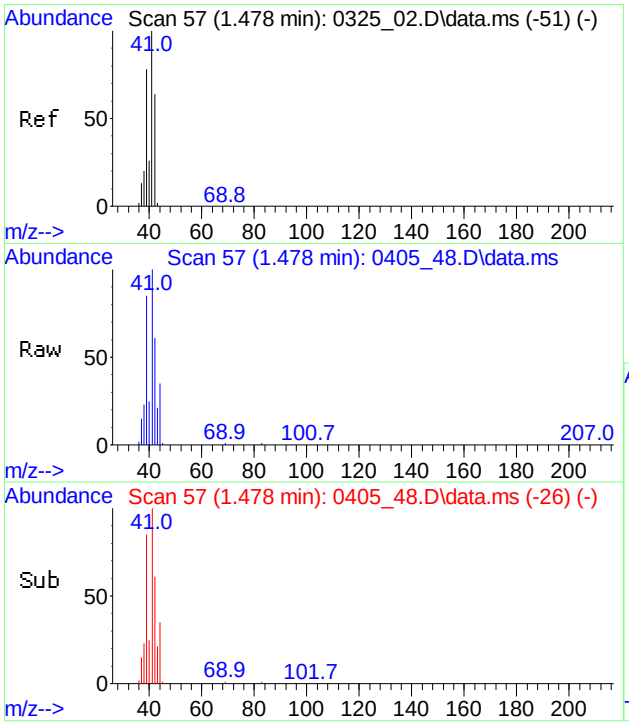
Quantitation Report (QT Reviewed)

Data Path : H:\AIR2021\CHEM24\04APR\05\
Data File : 0405_48.D
Acq On : 6 Apr 2021 8:07 pm
Operator : Keith
Client ID : SS-11 (5')
Lab ID : CH92058
ALS Vial : 46 Sample Multiplier: 1

Quant Time: Apr 07 08:22:21 2021
Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 26 09:02:26 2021
Response via : Initial Calibration



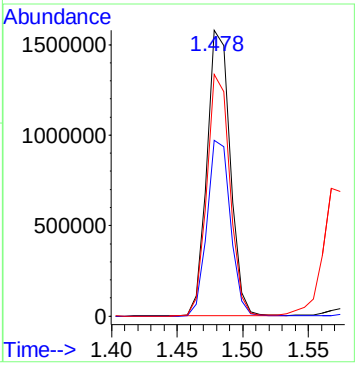



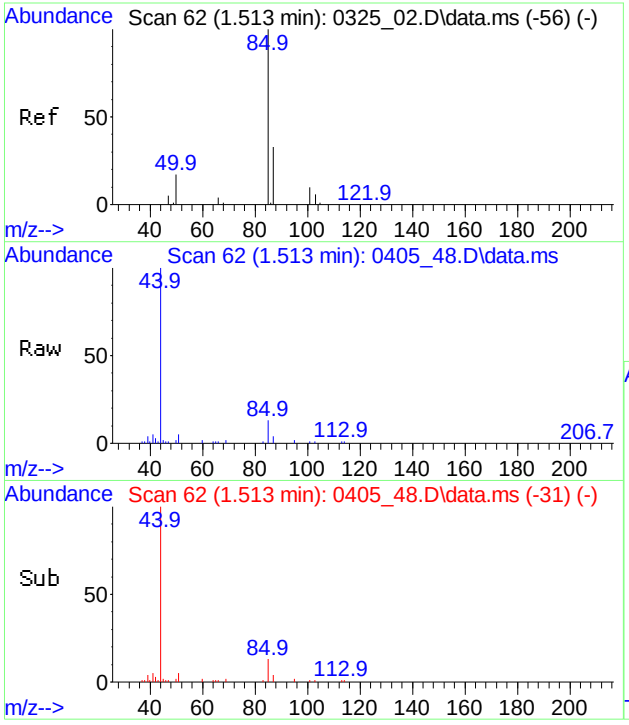



#2
Propylene
Conc: 8$  55.442 ppbv
RT:  1.478 min  Scan# 57
Delta R.T.  0.014 min
Lab File:  0405_48.D
Acq:  6 Apr 2021  8:07 pm

Tgt Ion: 41 Resp: 1920298

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 62.1 | 52.0 | 78.0 |
| 39 | 83.7 | 61.8 | 92.6 |

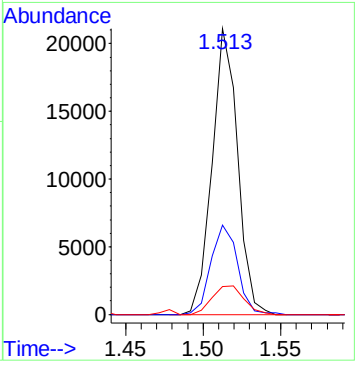


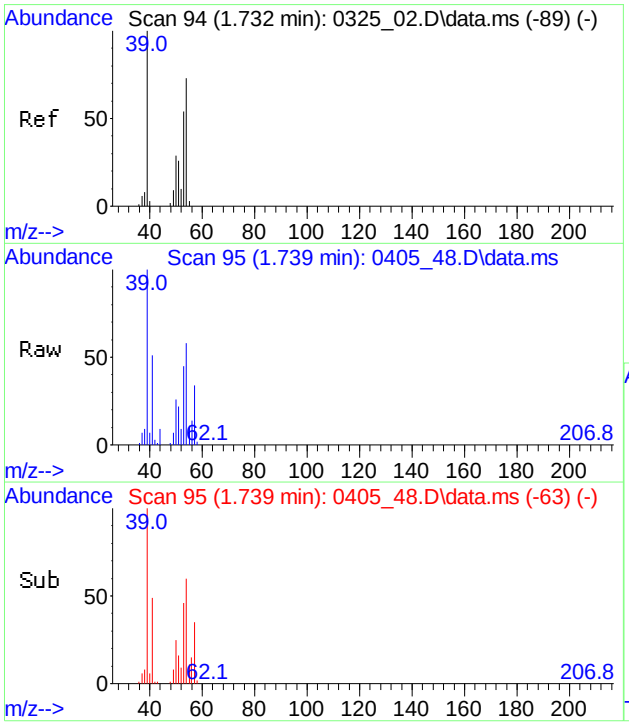




#3
Dichlorodifluoromethane
Conc: 8$  0.381 ppbv
RT:  1.513 min  Scan# 62
Delta R.T.  0.014 min
Lab File:  0405_48.D
Acq:  6 Apr 2021  8:07 pm

Tgt Ion: 85 Resp:  24198

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 32.7 | 26.6 | 40.0 |
| 101 | 12.6 | 7.9 | 11.9# |

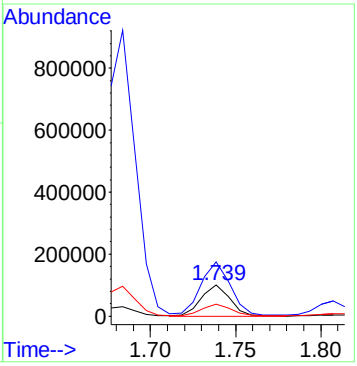


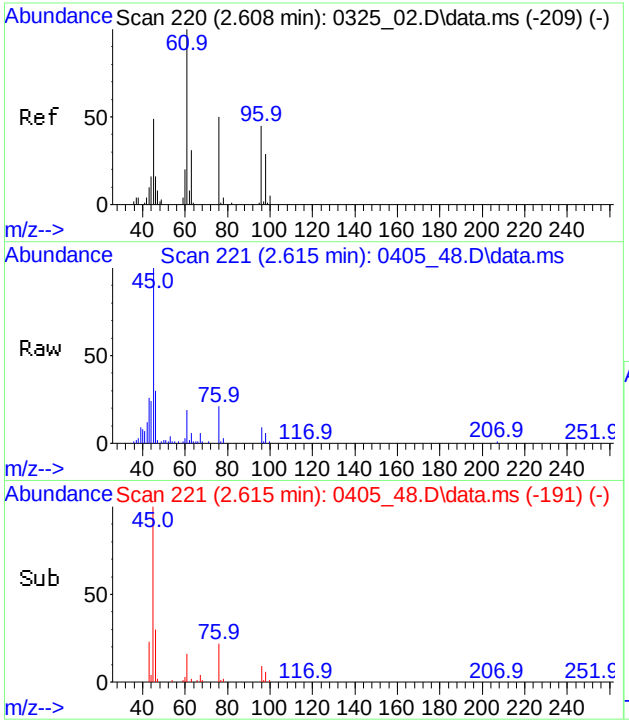



#7
1,3-Butadiene
Conc: 8$ 4.631 ppbv
RT: 1.739 min Scan# 95
Delta R.T. 0.021 min
Lab File: 0405_48.D
Acq: 6 Apr 2021 8:07 pm

Tgt Ion: 54 Resp: 116666

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 54 | 100 | | |
| 39 | 178.7 | 109.8 | 164.8# |
| 51 | 40.3 | 27.8 | 41.8 |

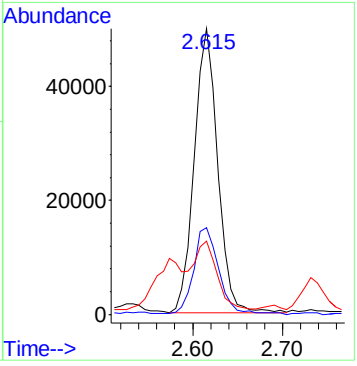


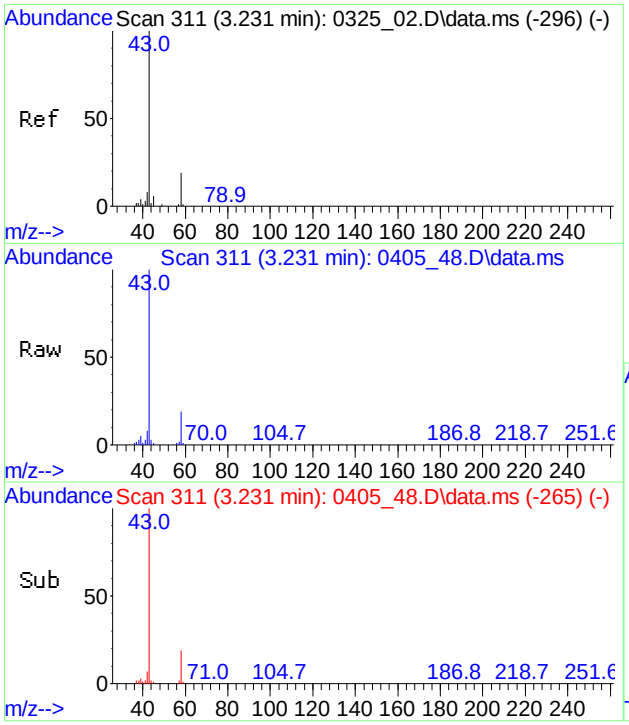




#10
Ethanol
Conc: 8$ 5.832 ppbv
RT: 2.615 min Scan# 221
Delta R.T. 0.020 min
Lab File: 0405_48.D
Acq: 6 Apr 2021 8:07 pm

Tgt Ion: 45 Resp: 90173

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 33.2 | 27.8 | 41.6 |
| 43 | 23.7 | 17.3 | 25.9 |

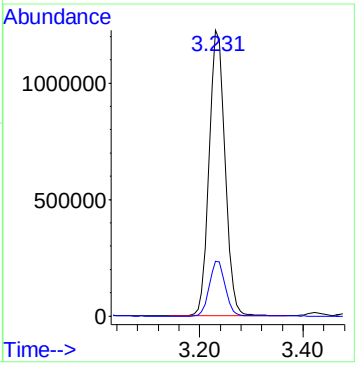


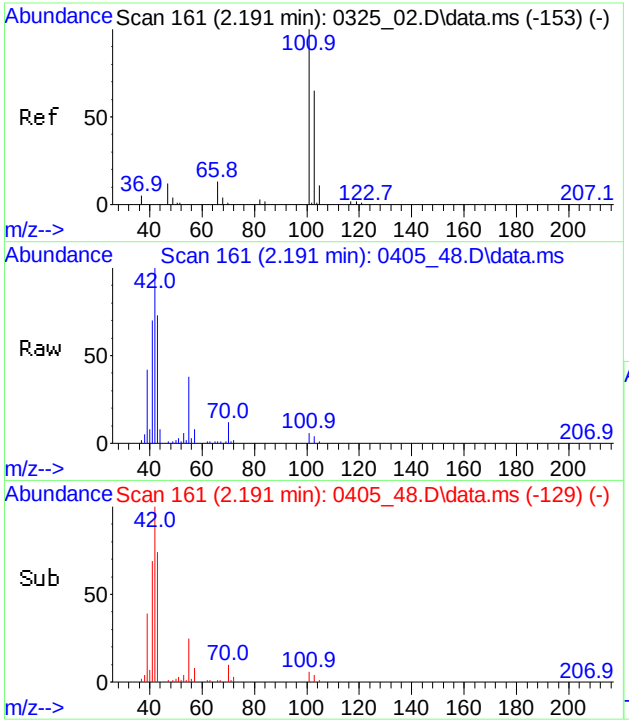



#12
Acetone
Conc: 8$ 29.480 ppbv
RT: 3.231 min Scan# 311
Delta R.T. 0.014 min
Lab File: 0405_48.D
Acq: 6 Apr 2021 8:07 pm

Tgt Ion: 43 Resp: 2637019

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 19.2 | 13.2 | 19.8 |

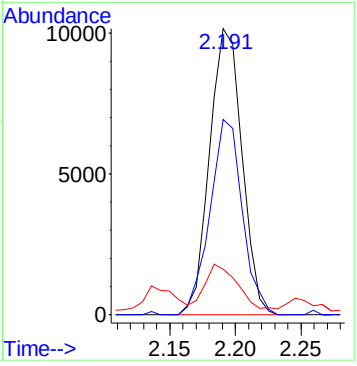


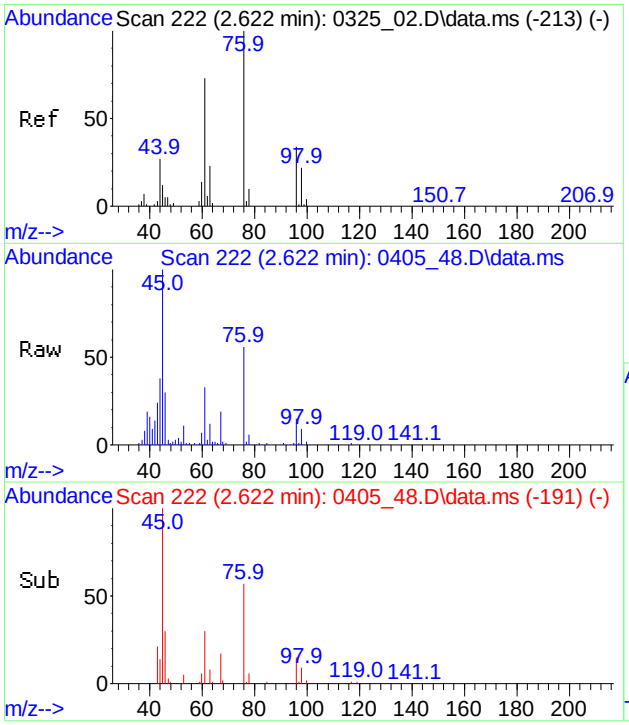




#13
Trichlorofluoromethane
Conc: 8$ 0.192 ppbv
RT: 2.191 min Scan# 161
Delta R.T. 0.021 min
Lab File: 0405_48.D
Acq: 6 Apr 2021 8:07 pm

Tgt Ion:101 Resp: 17151

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 68.3 | 51.5 | 77.3 |
| 66 | 18.5 | 10.6 | 15.8# |

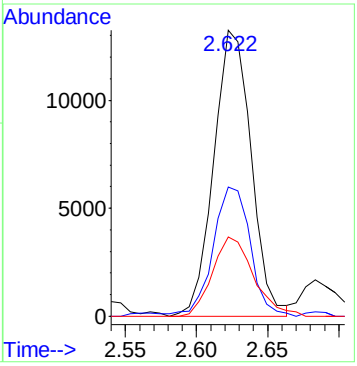


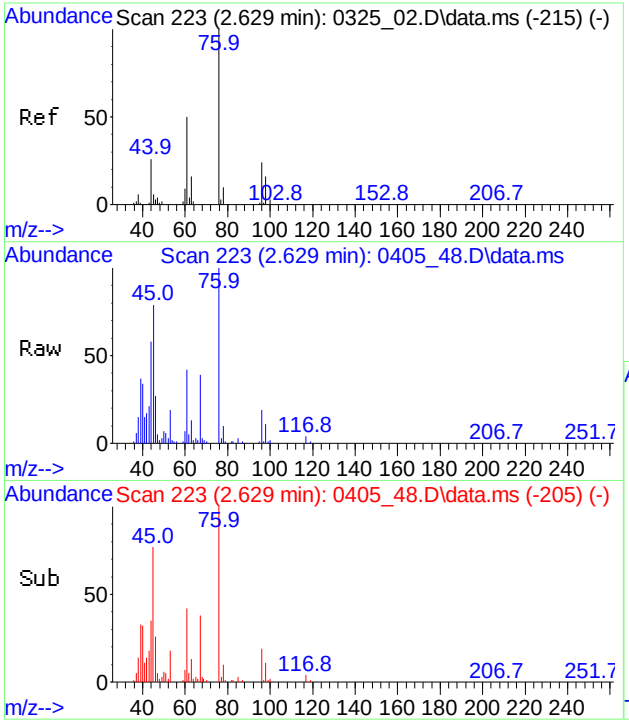



#16
1,1-Dichloroethene
Conc: 8$ 0.452 ppbv
RT: 2.622 min Scan# 222
Delta R.T. 0.021 min
Lab File: 0405_48.D
Acq: 6 Apr 2021 8:07 pm

Tgt Ion: 61 Resp: 24201

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 61 | 100 | | |
| 96 | 44.9 | 37.2 | 55.8 |
| 98 | 30.4 | 24.0 | 36.0 |

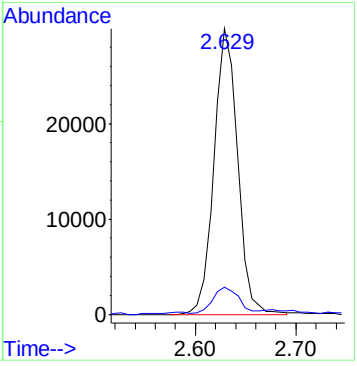


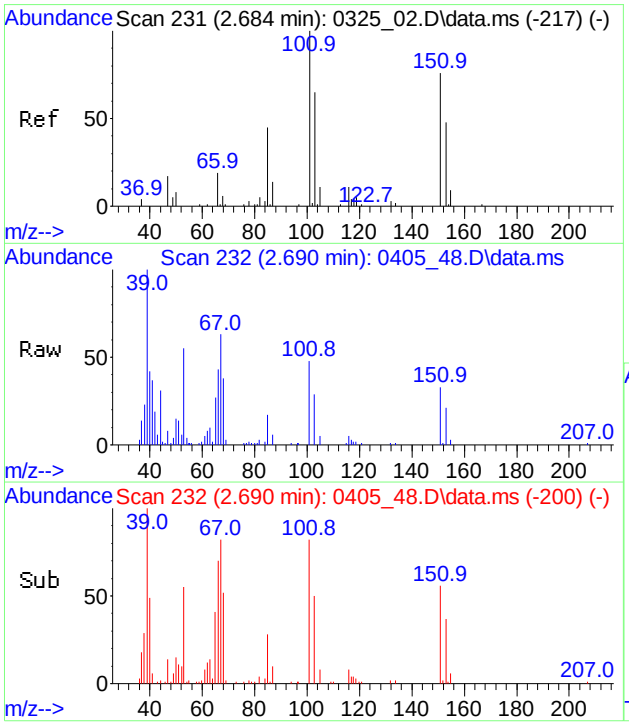




#20
Carbon Disulfide
Conc: 8$ 0.712 ppbv
RT: 2.629 min Scan# 223
Delta R.T. 0.021 min
Lab File: 0405_48.D
Acq: 6 Apr 2021 8:07 pm

Tgt Ion: 76 Resp: 48919

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 9.9 | 7.7 | 11.5 |

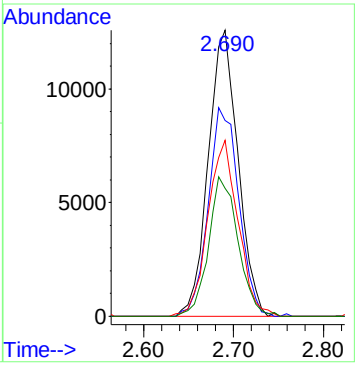


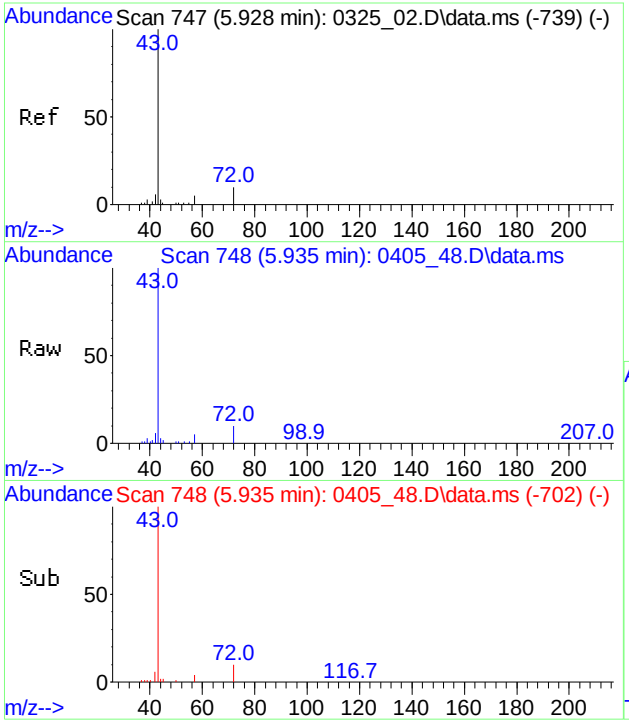



#21
Trichlorotrifluoroethane
Conc: 8$ 0.461 ppbv
RT: 2.690 min Scan# 232
Delta R.T. 0.020 min
Lab File: 0405_48.D
Acq: 6 Apr 2021 8:07 pm

Tgt Ion:101 Resp: 28984

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 151 | 74.8 | 62.2 | 93.4 |
| 103 | 62.4 | 51.4 | 77.2 |
| 153 | 48.2 | 39.7 | 59.5 |

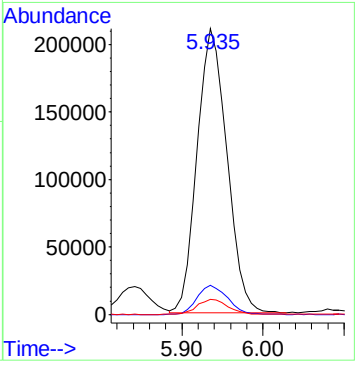


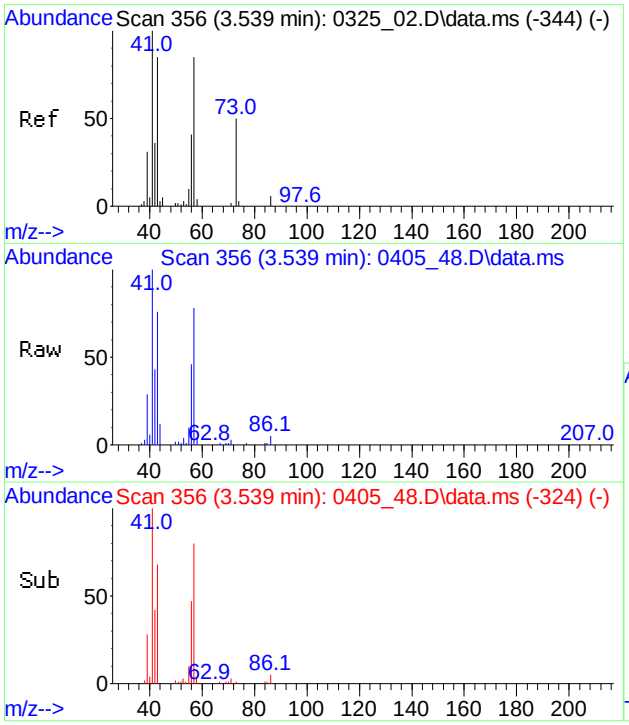




#25
Methyl Ethyl Ketone
Conc: 8$ 5.861 ppbv
RT: 5.935 min Scan# 748
Delta R.T. 0.029 min
Lab File: 0405_48.D
Acq: 6 Apr 2021 8:07 pm

Tgt Ion: 43 Resp: 540535

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 10.5 | 8.5 | 12.7 |
| 57 | 5.5 | 4.2 | 6.4 |

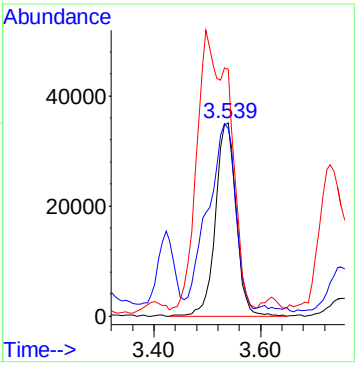


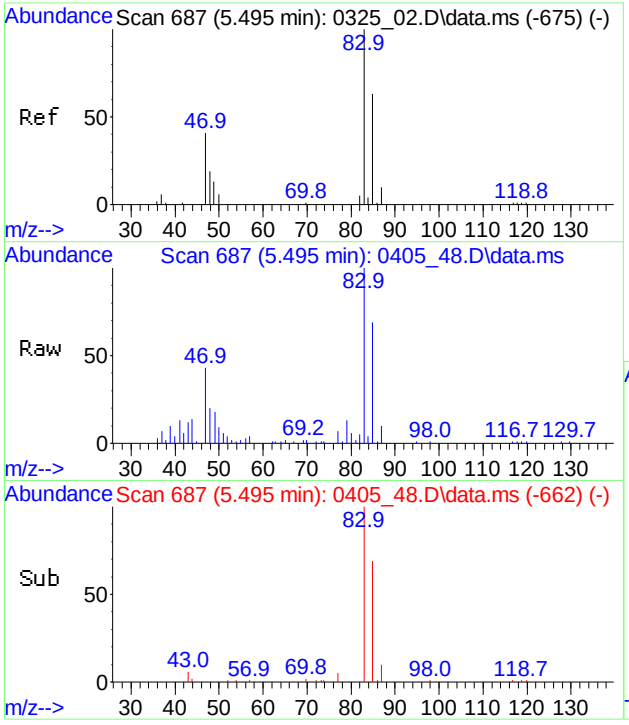



#27
Hexane
Conc: 8$ 1.512 ppbv
RT: 3.539 min Scan# 356
Delta R.T. 0.021 min
Lab File: 0405_48.D
Acq: 6 Apr 2021 8:07 pm

Tgt Ion: 57 Resp: 93903

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 43 | 128.4 | 83.3 | 124.9# |
| 41 | 157.1 | 95.6 | 143.4# |

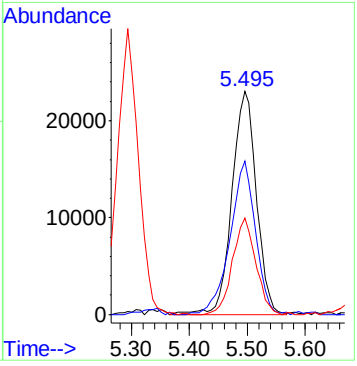


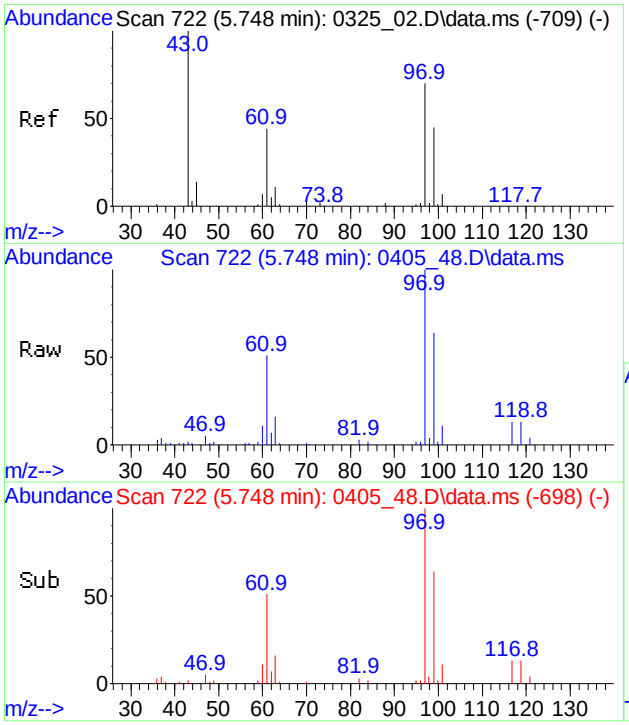




#28
Chloroform
Conc: 8$ 1.022 ppbv
RT: 5.495 min Scan# 687
Delta R.T. 0.029 min
Lab File: 0405_48.D
Acq: 6 Apr 2021 8:07 pm

Tgt Ion: 83 Resp: 67637

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 71.4 | 44.4 | 84.4 |
| 47 | 41.1 | 20.0 | 60.0 |

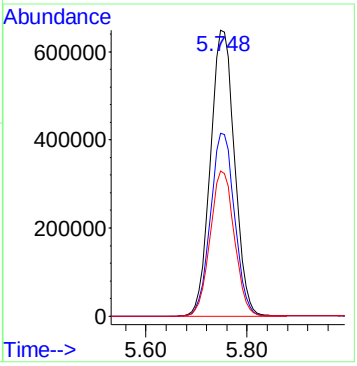


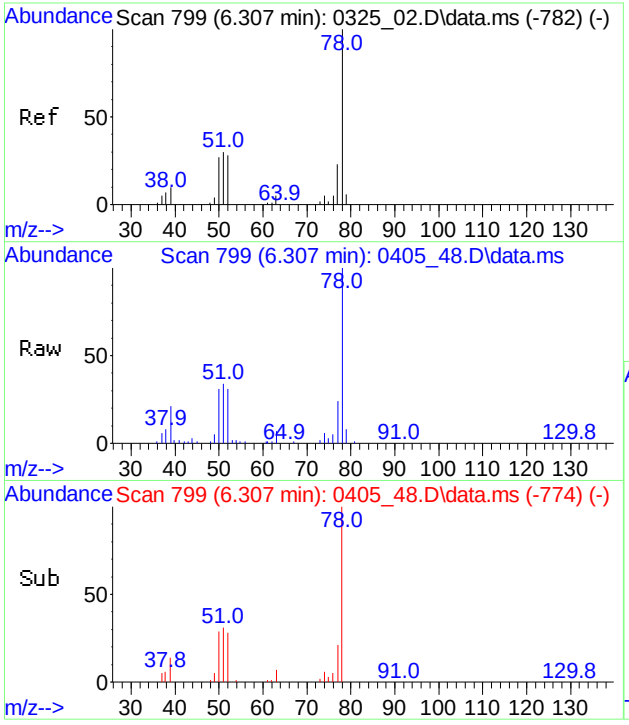



#32
1,1,1-Trichloroethane
Conc: 8$ 29.516 ppbv
RT: 5.748 min Scan# 722
Delta R.T. 0.022 min
Lab File: 0405_48.D
Acq: 6 Apr 2021 8:07 pm

Tgt Ion: 97 Resp: 2139596

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 64.1 | 51.3 | 76.9 |
| 61 | 50.9 | 50.1 | 75.1 |

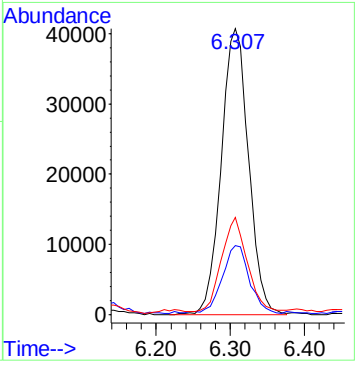


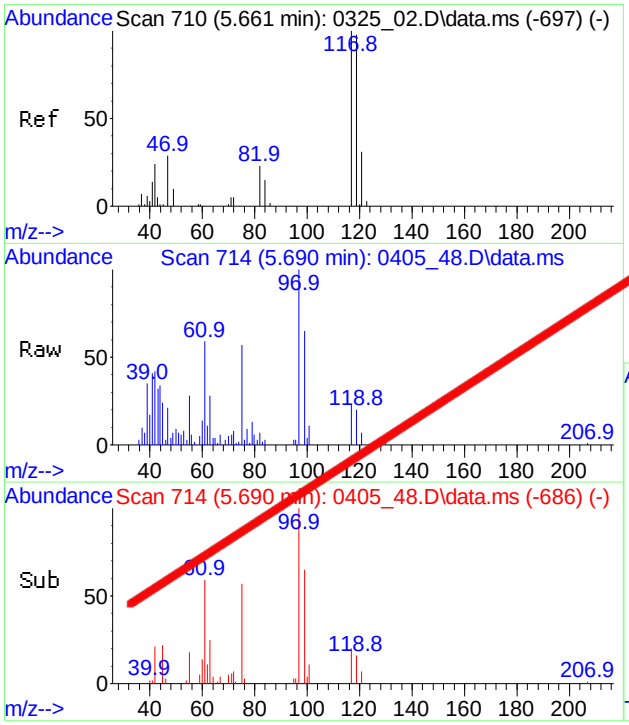




#33
Benzene
Conc: 8$ 1.457 ppbv
RT: 6.307 min Scan# 799
Delta R.T. 0.021 min
Lab File: 0405_48.D
Acq: 6 Apr 2021 8:07 pm

Tgt Ion: 78 Resp: 105274

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 23.4 | 18.2 | 27.2 |
| 51 | 31.7 | 24.2 | 36.2 |

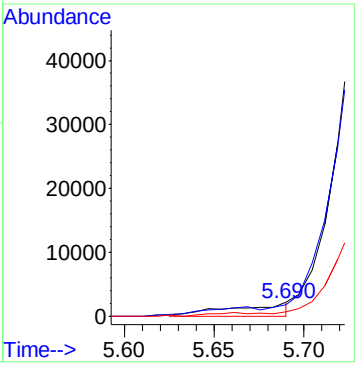


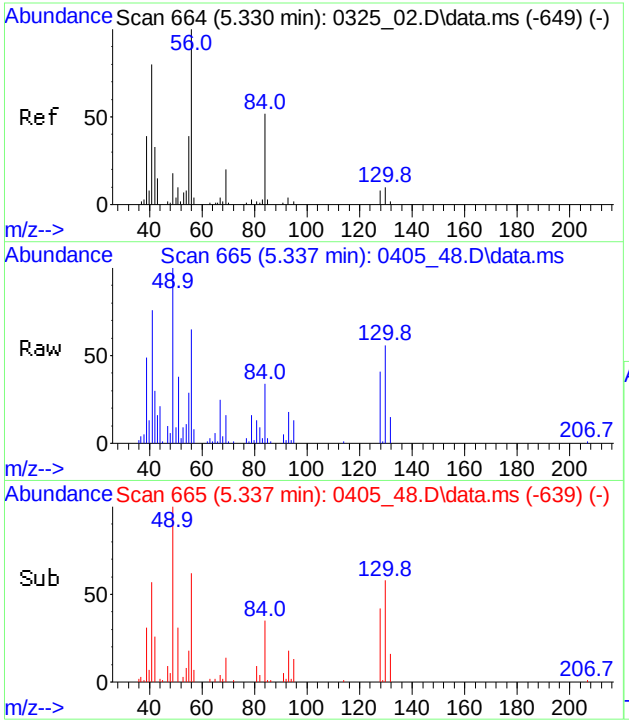



#34
Carbon Tetrachloride
Conc: 8$  Below Cal
RT:  5.690 min  Scan# 714
Delta R.T.  0.051 min
Lab File:  0405_48.D
Acq:  6 Apr 2021  8:07 pm

Tgt Ion:117 Resp:  4659

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 5707.9 | 78.0 | 118.0# |
| 121 | 1866.4 | 12.1 | 52.1# |

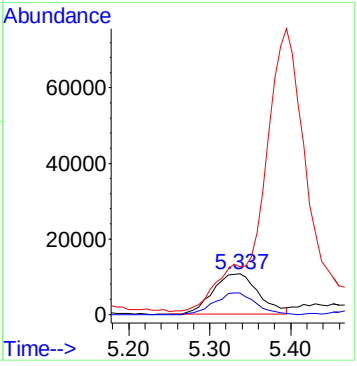


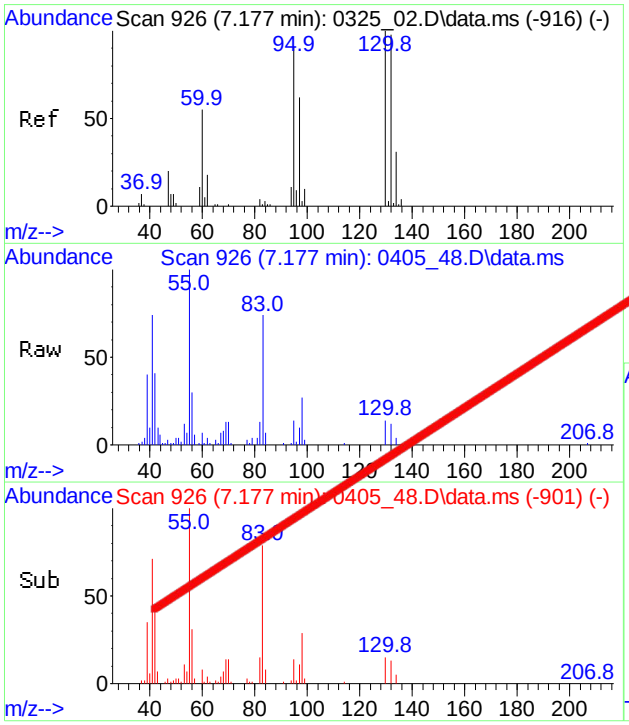




#35
Cyclohexane
Conc: 8$  0.850 ppbv
RT:  5.337 min  Scan# 665
Delta R.T.  0.036 min
Lab File:  0405_48.D
Acq:  6 Apr 2021  8:07 pm

Tgt Ion: 56 Resp:  41432

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 84 | 48.4 | 42.2 | 63.4 |
| 41 | 0.0 | 64.1 | 96.1# |

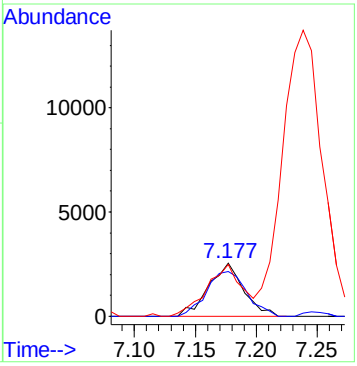


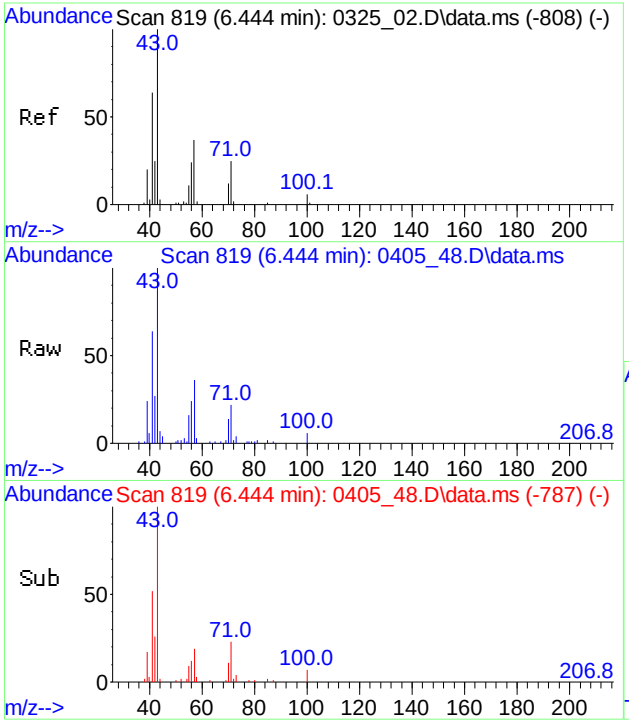



#39
Trichloroethene
Conc: 8$  Below Cal
RT:  7.177 min  Scan# 926
Delta R.T.  0.021 min
Lab File:  0405_48.D
Acq:  6 Apr 2021  8:07 pm

Tgt Ion:130 Resp:  4982

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 132 | 97.0 | 76.6 | 115.0 |
| 95 | 99.5 | 72.3 | 108.5 |

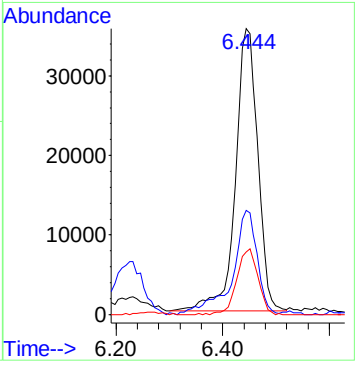


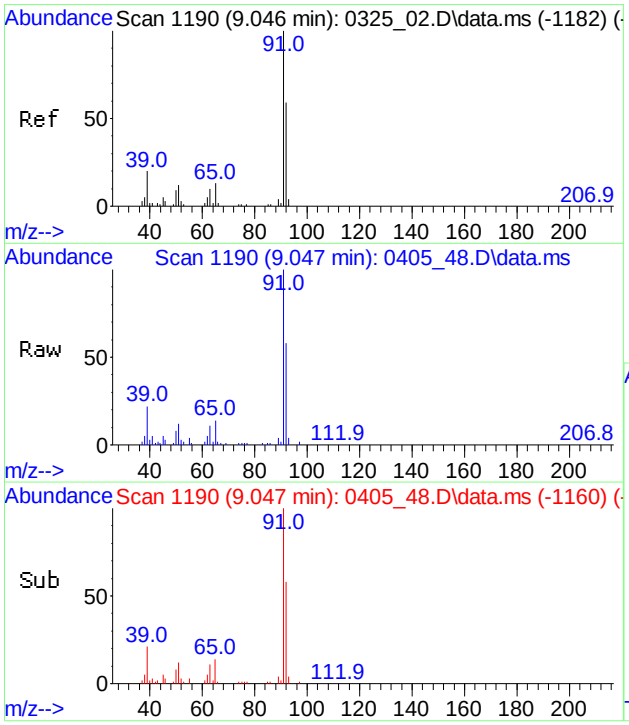




#43
Heptane
Conc: 8$  1.304 ppbv
RT:  6.444 min  Scan# 819
Delta R.T.  0.021 min
Lab File:  0405_48.D
Acq:  6 Apr 2021  8:07 pm

Tgt Ion: 43 Resp:  103860

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 57 | 40.7 | 29.5 | 44.3 |
| 71 | 22.0 | 19.8 | 29.8 |

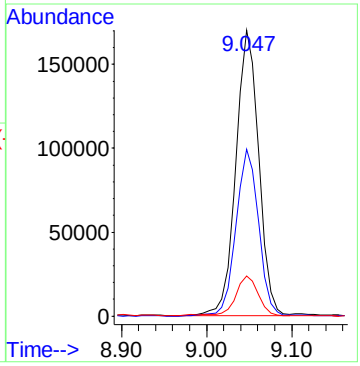


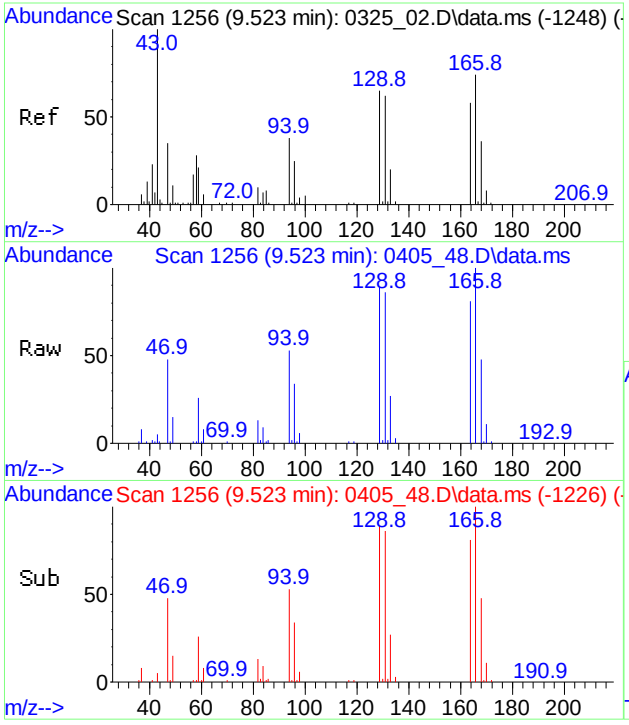



#48
Toluene
Conc: 8$ 3.488 ppbv
RT: 9.047 min Scan# 1190
Delta R.T. 0.015 min
Lab File: 0405_48.D
Acq: 6 Apr 2021 8:07 pm

Tgt Ion: 91 Resp: 317071

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 57.9 | 46.3 | 69.5 |
| 65 | 14.3 | 10.1 | 15.1 |

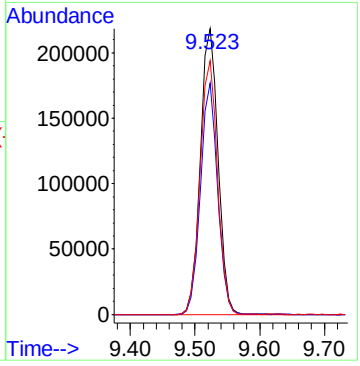


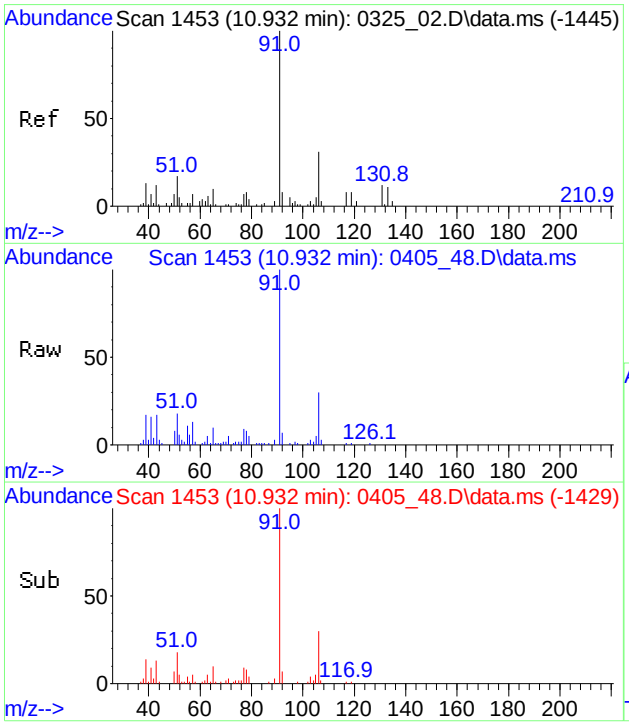




#52
Tetrachloroethene
Conc: 8$ 7.598 ppbv
RT: 9.523 min Scan# 1256
Delta R.T. 0.015 min
Lab File: 0405_48.D
Acq: 6 Apr 2021 8:07 pm

Tgt Ion:166 Resp: 413450

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 164 | 78.4 | 62.2 | 93.4 |
| 129 | 87.7 | 68.3 | 102.5 |

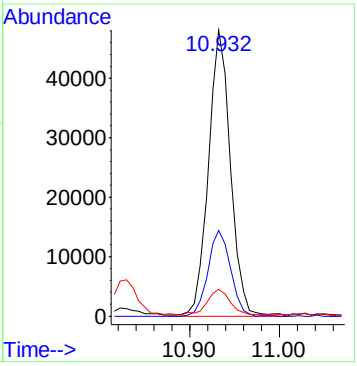


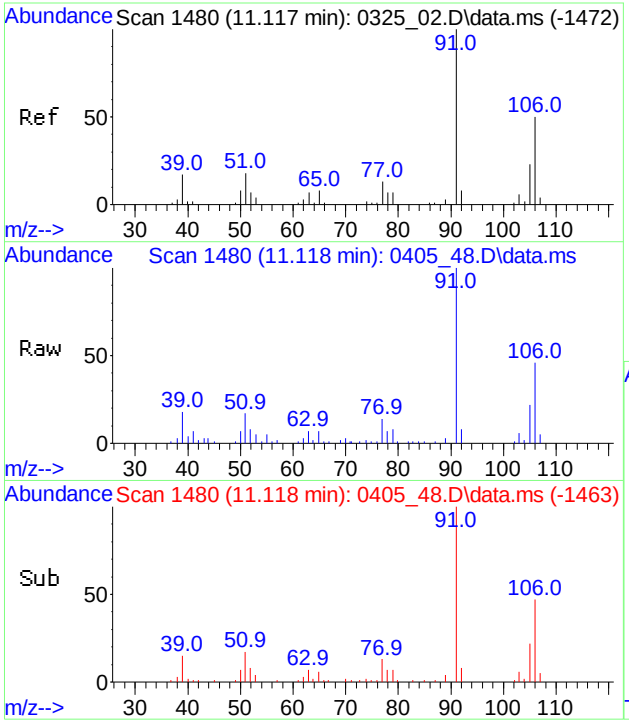



#56
Ethylbenzene
Conc: 8$ 0.632 ppbv
RT: 10.932 min Scan# 1453
Delta R.T. 0.014 min
Lab File: 0405_48.D
Acq: 6 Apr 2021 8:07 pm

Tgt Ion: 91 Resp: 82423

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 30.4 | 11.4 | 51.4 |
| 77 | 9.3 | 0.0 | 28.7 |

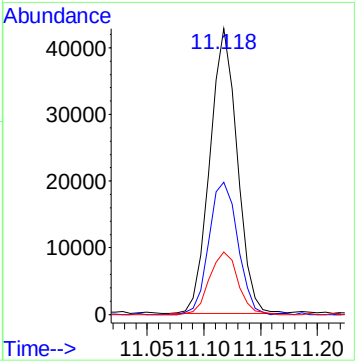


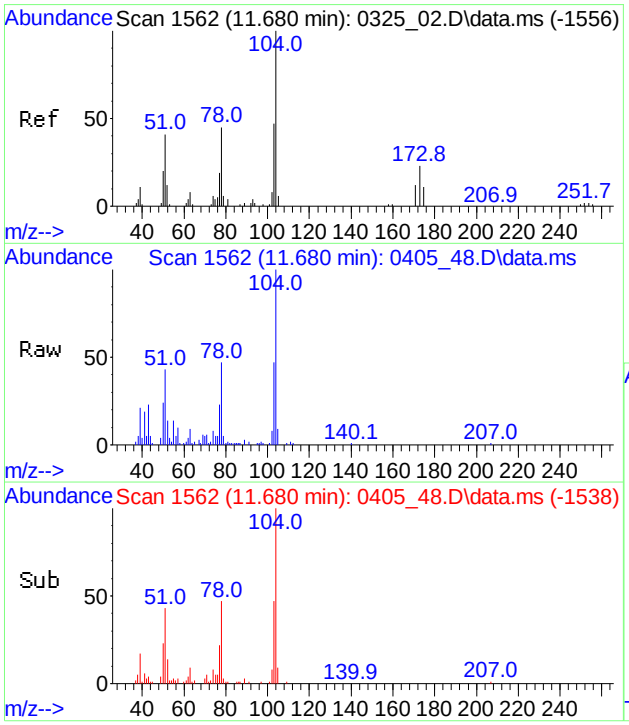




#57
m,p-Xylene
Conc: 8$ 0.730 ppbv
RT: 11.118 min Scan# 1480
Delta R.T. 0.014 min
Lab File: 0405_48.D
Acq: 6 Apr 2021 8:07 pm

Tgt Ion: 91 Resp: 71552

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 48.9 | 39.8 | 59.8 |
| 105 | 22.7 | 18.2 | 27.4 |

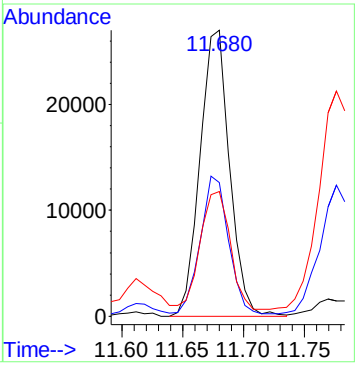


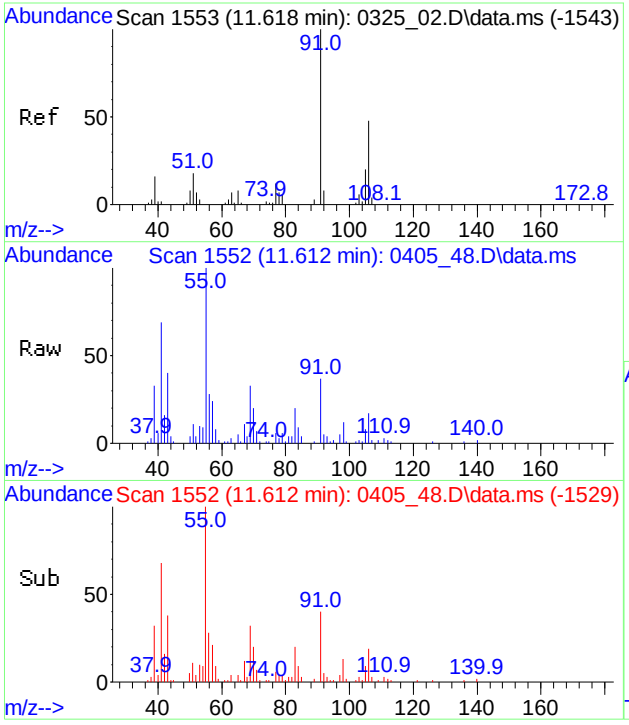



#59
Styrene
Conc: 8$ 0.643 ppbv
RT: 11.680 min Scan# 1562
Delta R.T. 0.014 min
Lab File: 0405_48.D
Acq: 6 Apr 2021 8:07 pm

Tgt Ion:104 Resp: 45222

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 45.5 | 36.2 | 54.4 |
| 51 | 41.3 | 33.0 | 49.6 |

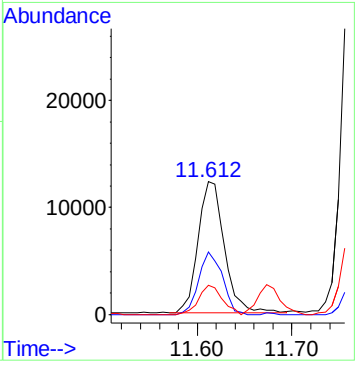


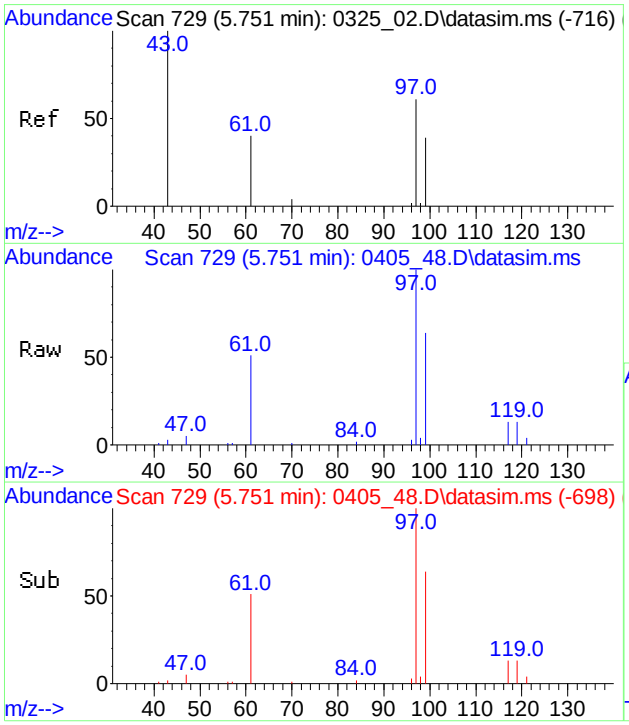




#61
o-Xylene
Conc: 8$ 0.242 ppbv
RT: 11.612 min Scan# 1552
Delta R.T. 0.008 min
Lab File: 0405_48.D
Acq: 6 Apr 2021 8:07 pm

Tgt Ion: 91 Resp: 23734

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 43.0 | 37.5 | 56.3 |
| 105 | 19.9 | 15.1 | 22.7 |

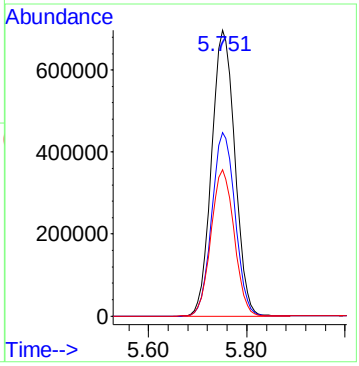


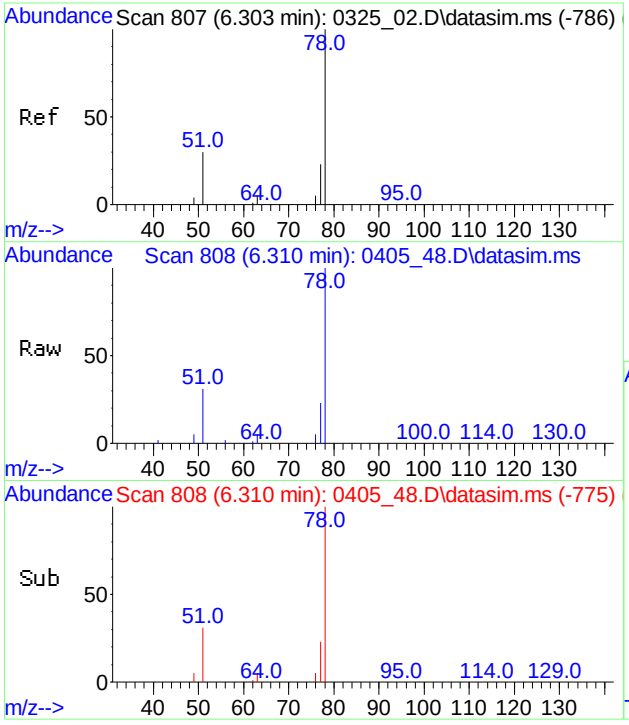



#85
1,1,1-Trichloroethane(sim)
Conc: 8$ 28.160 ppbv
RT: 5.748 min Scan# 729
Delta R.T. 0.022 min
Lab File: 0405_48.D
Acq: 6 Apr 2021 8:07 pm

Tgt Ion: 97 Resp: 2140020

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 64.1 | 64.0 | 64.0# |
| 61 | 50.9 | 50.0 | 75.0 |

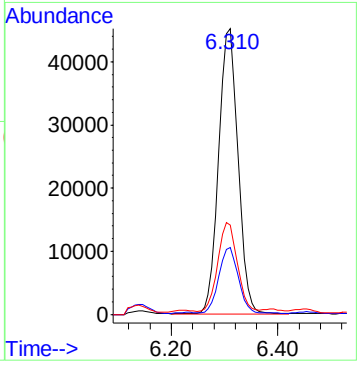


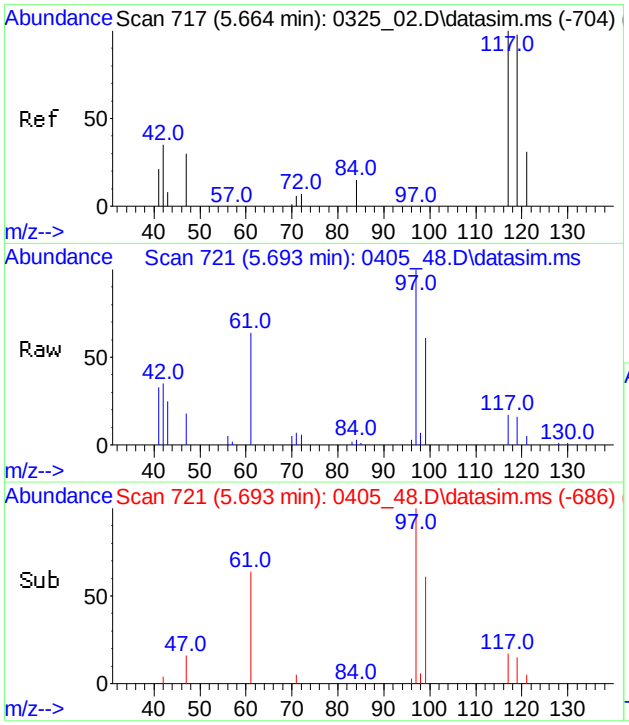




#86
Benzene(sim)
Conc: 8$ 1.358 ppbv
RT: 6.310 min Scan# 808
Delta R.T. 0.028 min
Lab File: 0405_48.D
Acq: 6 Apr 2021 8:07 pm

Tgt Ion: 78 Resp: 113954

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 23.2 | 18.0 | 27.0 |
| 51 | 31.4 | 23.9 | 35.9 |

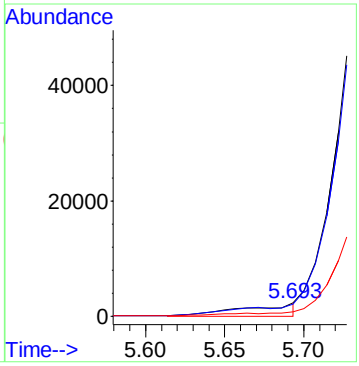


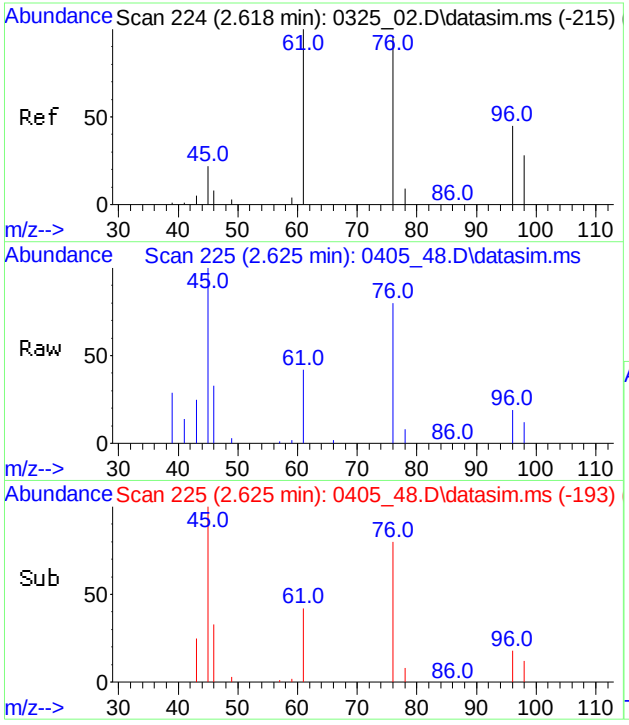



#87
Carbon Tetrachloride(sim)
Conc: 8$ 0.060 ppbv
RT: 5.693 min Scan# 721
Delta R.T. 0.054 min
Lab File: 0405_48.D
Acq: 6 Apr 2021 8:07 pm

Tgt Ion:117 Resp: 5231

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 5324.8 | 78.4 | 117.6# |
| 121 | 1744.6 | 25.7 | 38.5# |

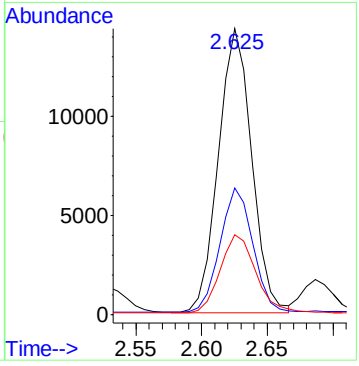


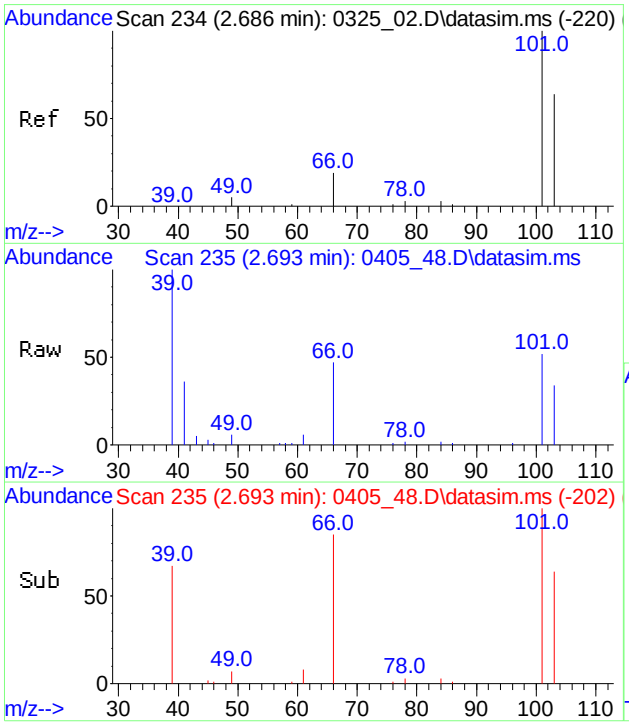




#88
1,1-Dichloroethene(sim)
Conc: 8$ 0.403 ppbv
RT: 2.625 min Scan# 225
Delta R.T. 0.021 min
Lab File: 0405_48.D
Acq: 6 Apr 2021 8:07 pm

Tgt Ion: 61 Resp: 25071

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 61 | 100 | | |
| 96 | 43.0 | 37.1 | 55.7 |
| 98 | 29.9 | 23.8 | 35.6 |

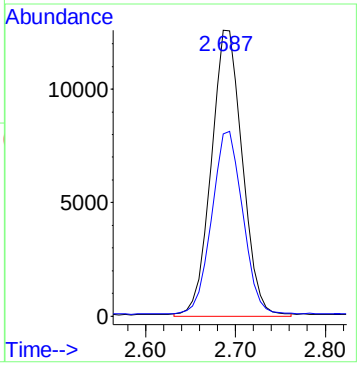


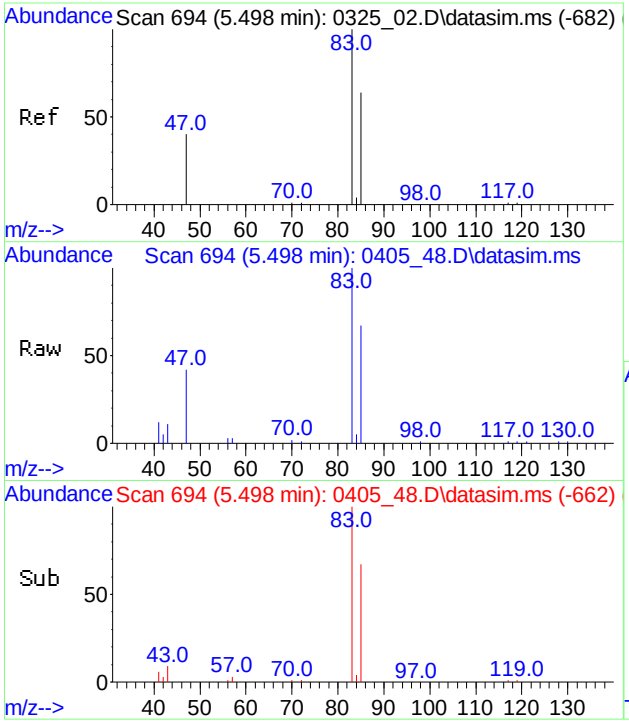



#89
Trichlorotrifluoroethane(sim)
Conc: 8$ 0.426 ppbv
RT: 2.690 min Scan# 235
Delta R.T. 0.020 min
Lab File: 0405_48.D
Acq: 6 Apr 2021 8:07 pm

Tgt Ion:101 Resp: 28984

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 62.0 | 51.4 | 77.2 |

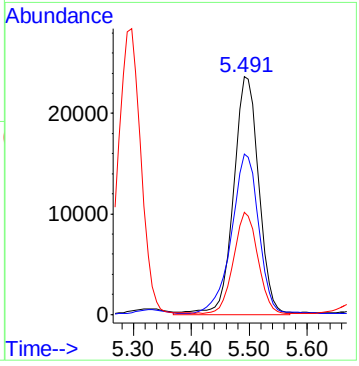


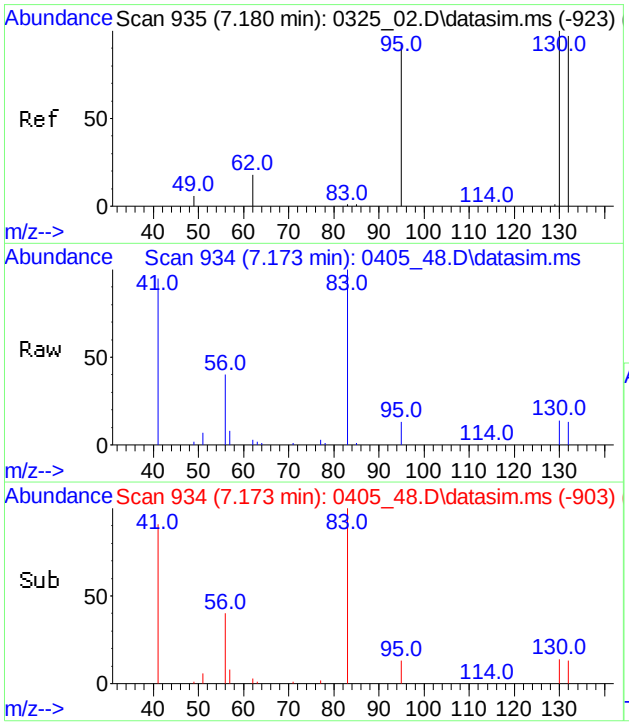




#93
Chloroform(sim)
Conc: 8$ 0.949 ppbv
RT: 5.495 min Scan# 694
Delta R.T. 0.029 min
Lab File: 0405_48.D
Acq: 6 Apr 2021 8:07 pm

Tgt Ion: 83 Resp: 67637

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 71.4 | 51.6 | 77.4 |
| 47 | 41.1 | 32.1 | 48.1 |

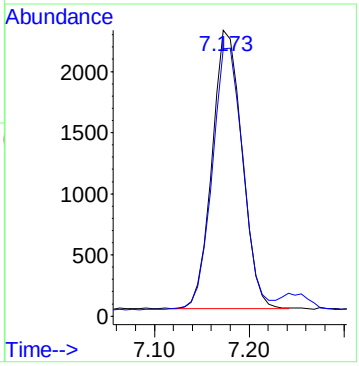


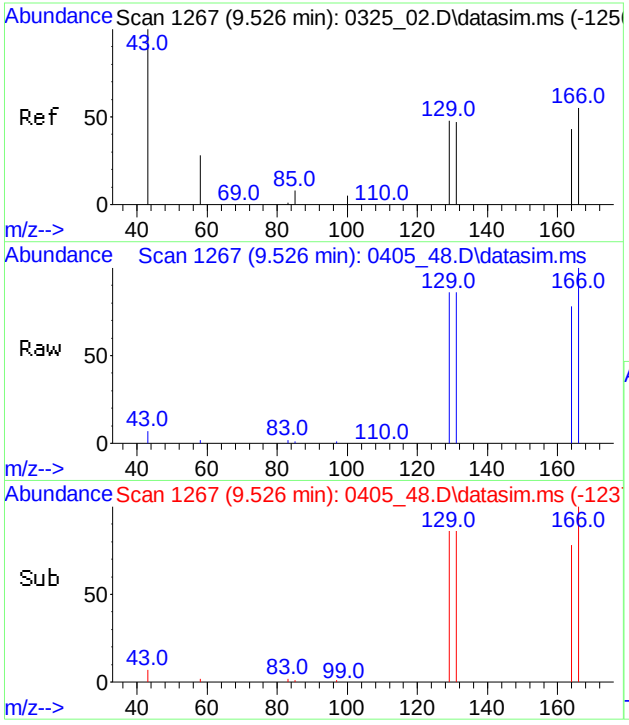



#98
Trichloroethene(sim)
Conc: 8$ 0.100 ppbv
RT: 7.173 min Scan# 934
Delta R.T. 0.014 min
Lab File: 0405_48.D
Acq: 6 Apr 2021 8:07 pm

Tgt Ion:130 Resp: 5007

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 132 | 97.4 | 77.1 | 115.7 |

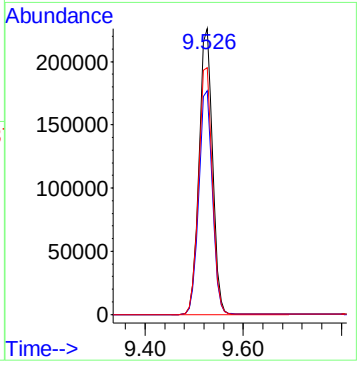


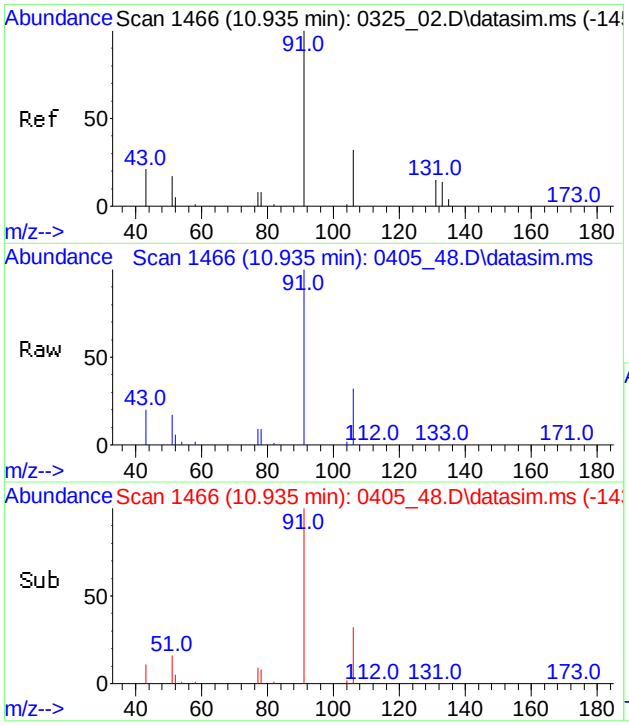




#104
Tetrachloroethene(sim)
Conc: 8$ 7.404 ppbv
RT: 9.526 min Scan# 1267
Delta R.T. 0.015 min
Lab File: 0405_48.D
Acq: 6 Apr 2021 8:07 pm

Tgt Ion:166 Resp: 432016

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 164 | 78.7 | 58.4 | 98.4 |
| 129 | 87.6 | 66.6 | 106.6 |

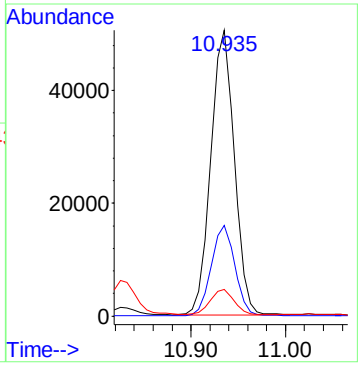


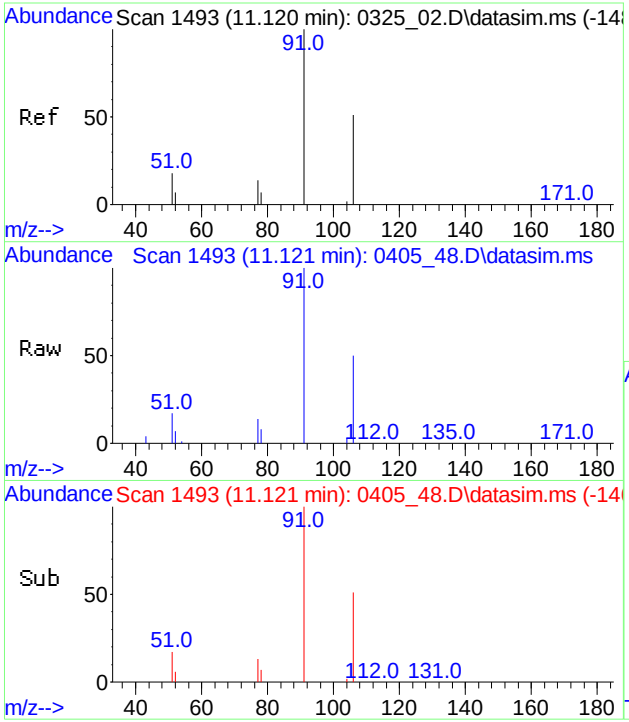



#108
Ethylbenzene(sim)
Conc: 8$ 0.610 ppb
RT: 10.935 min Scan# 1466
Delta R.T. 0.014 min
Lab File: 0405_48.D
Acq: 6 Apr 2021 8:07 pm

Tgt Ion: 91 Resp: 86600

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 31.9 | 25.8 | 38.8 |
| 77 | 9.0 | 7.0 | 10.6 |

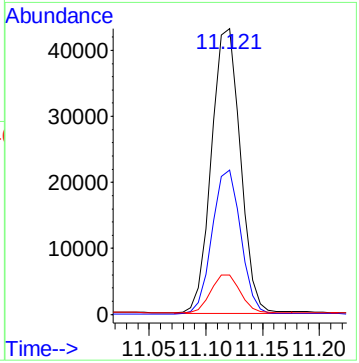


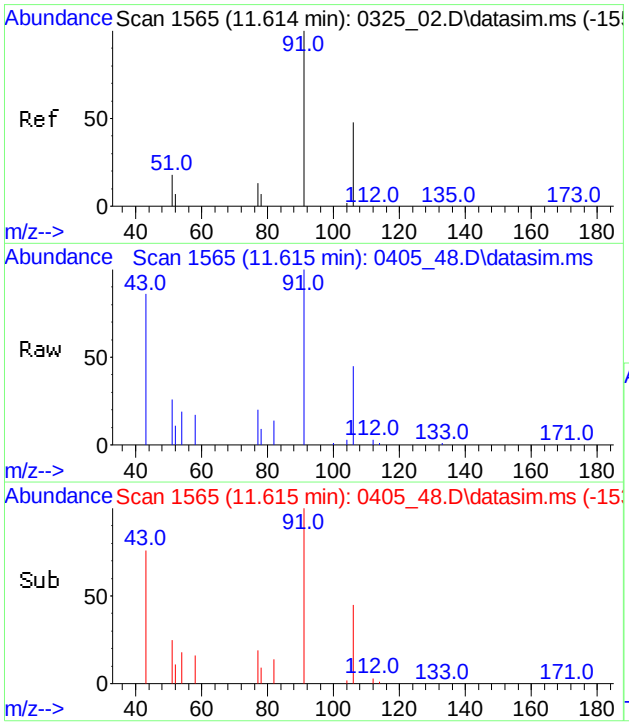




#109
m,p-Xylene(sim)
Conc: 8$ 0.740 ppbv
RT: 11.118 min Scan# 1493
Delta R.T. 0.014 min
Lab File: 0405_48.D
Acq: 6 Apr 2021 8:07 pm

Tgt Ion: 91 Resp: 71552

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 48.9 | 44.8 | 54.8 |
| 77 | 15.6 | 10.5 | 15.7 |

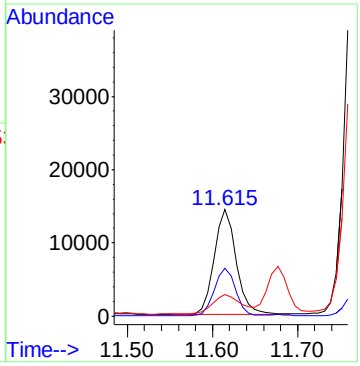





#110
o-Xylene(sim)
Conc: 8$ 0.253 ppb
RT: 11.615 min Scan# 1565
Delta R.T. 0.015 min
Lab File: 0405_48.D
Acq: 6 Apr 2021 8:07 pm

Tgt Ion: 91 Resp: 25620

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 43.1 | 37.6 | 56.4 |
| 77 | 24.7 | 9.8 | 14.8# |



1

AIR ANALYSIS DATA SHEET

CLIENT ID: SS-11 (5') 5X

Client: GC-ENV Lab: Phoenix Env. Labs

SDG No.: GCH92051 Lab Sample ID: CH92058 5X

Canister: 484 Lab File ID: 0405_25.D

Instrument: CHEM20 Column: RTX-1 60M Date Received: 04/05/21

Purge Volume 200 (cc) Date Analyzed: 04/06/21

Matrix: AIR Dilution Factor: 5

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

| CAS NO. | COMPOUND | CONC. | Q | MDL | PQL | R |
|---|---|---|---|---|---|---|
| 115-07-1 | Propylene | 56.3 | D | 2.91 | 2.91 | r |
| 75-71-8 | Dichlorodifluoromethane | 1.01 | U | 1.01 | 1.01 | |
| 106-99-0 | 1,3-Butadiene | 7.13 | X | 2.26 | 2.26 | |
| 64-17-5 | Ethanol | 11.3 | X | 2.66 | 2.66 | |
| 67-64-1 | Acetone | 50.0 | X | 2.11 | 2.11 | |
| 75-15-0 | Carbon Disulfide | 1.61 | U | 1.61 | 1.61 | |
| 78-93-3 | Methyl Ethyl Ketone | 5.46 | X | 1.70 | 1.70 | |
| 110-54-3 | Hexane | 1.90 | X | 1.42 | 1.42 | |
| 67-66-3 | Chloroform | 1.05 | X | 1.02 | 1.02 | |
| 71-55-6 | 1,1,1-Trichloroethane | 35.7 | X | 0.917 | 0.917 | |
| 71-43-2 | Benzene | 1.57 | U | 1.57 | 1.57 | |
| 110-82-7 | Cyclohexane | 1.45 | U | 1.45 | 1.45 | |
| 142-82-5 | Heptane | 1.40 | X | 1.22 | 1.22 | |
| 108-88-3 | Toluene | 3.47 | X | 1.33 | 1.33 | |
| 127-18-4 | Tetrachloroethene | 8.12 | X | 0.184 | 0.184 | |
| 100-41-4 | Ethylbenzene | 1.15 | U | 1.15 | 1.15 | |
| 100-42-5 | Styrene | 1.17 | U | 1.17 | 1.17 | |
| 95-47-6 | o-Xylene | 1.15 | U | 1.15 | 1.15 | |
| 56-23-5 | Carbon Tetrachloride(sim) | 0.159 | U | 0.159 | 0.159 | |
| 75-35-4 | 1,1-Dichloroethene(sim) | 0.452 | X | 0.252 | 0.252 | |
| 76-13-1 | Trichlorotrifluoroethane(sim) | 0.653 | U | 0.653 | 0.653 | |
| 79-01-6 | Trichloroethene(sim) | 0.186 | U | 0.186 | 0.186 | |
| 179601-23-1 | m,p-Xylene(sim) | 1.15 | U | 1.15 | 1.15 | |

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:\AIR2021\CHEM20\04APR\05\
Data File : 0405_25.D
Acq On : 6 Apr 2021 12:34 am
Operator :
Client ID : SS-11 (5') 5X
Lab ID : CH92058 5X
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Apr 06 08:26:57 2021
Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0329.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Mar 29 13:12:48 2021
Response via : Initial Calibration

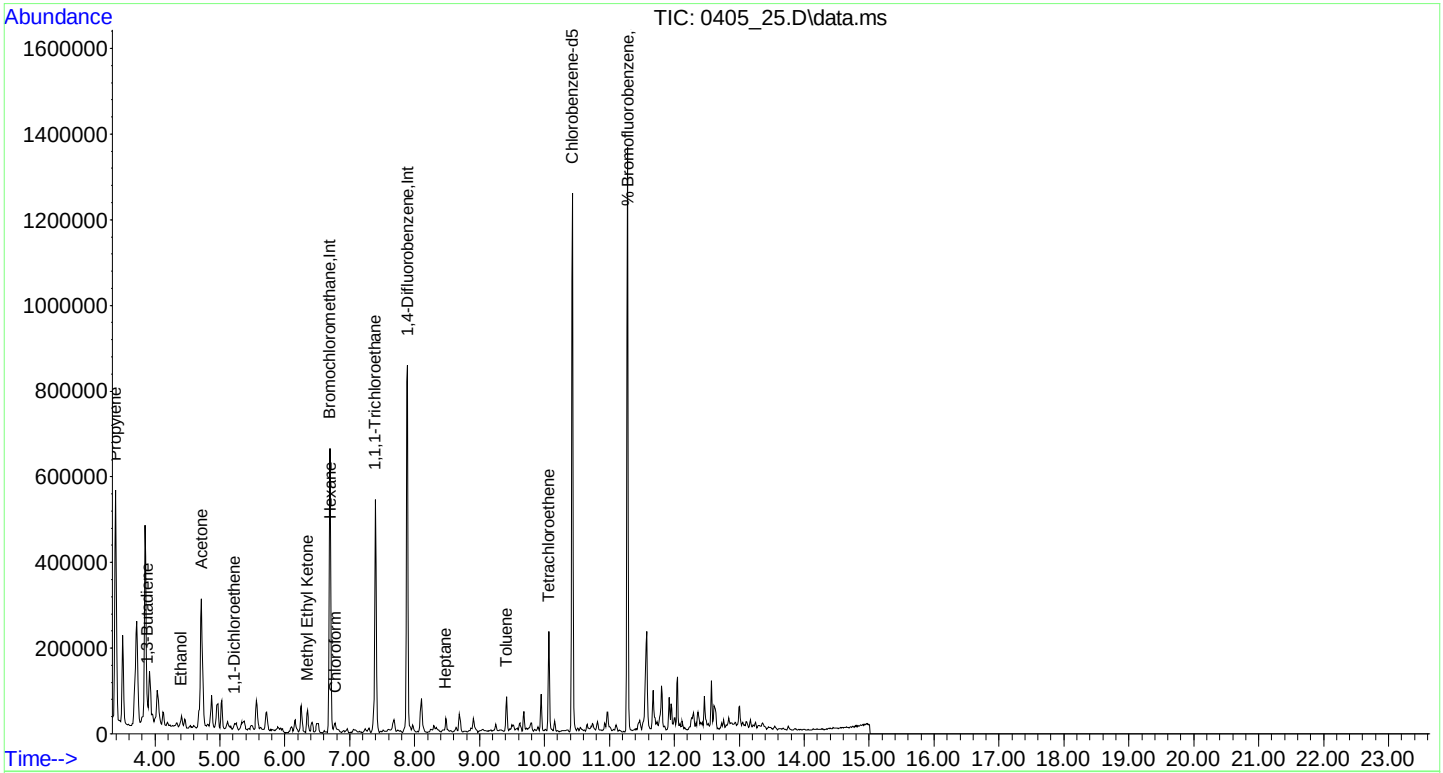
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Bromochloromethane | 6.694 | 130 | 135110 | 10.000 | ng | -0.01 |
| 37) 1,4-Difluorobenzene | 7.889 | 114 | 519651 | 10.000 | ng | 0.00 |
| 54) Chlorobenzene-d5 | 10.430 | 82 | 261055 | 10.000 | ng | 0.00 |
| 81) Bromochloromethane(sim) | 6.699 | 130 | 157276 | 10.000 | ng | #-0.01 |
| 96) 1,4-Difluorobenzene(sim) | 7.889 | 114 | 519651 | 10.000 | ng | 0.00 |
| 106) Chlorobenzene-d5(sim) | 10.430 | 82 | 261055 | 10.000 | ng | 0.00 |
| System Monitoring Compounds | | | | | | |
| 63) % Bromofluorobenzene | 11.281 | 95 | 309269 | 10.052 | ppbv | 0.00 |
| Spiked Amount 10.000 | Range 70 - 130 | | Recovery = 100.50% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Propylene | 3.392 | 41 | 267923 | 11.262 | ppbv | 88 |
| 7) 1,3-Butadiene | 3.877 | 54 | 26386 | 1.426 | ppbv# | 21 |
| 11) Ethanol | 4.405 | 45 | 25662 | 2.251 | ppbv# | 43 |
| 12) Acetone | 4.718 | 43 | 417033 | 10.007 | ppbv | 99 |
| 16) 1,1-Dichloroethene | 5.226 | 61 | 2966 | 0.098 | ppbv# | 90 |
| 26) Methyl Ethyl Ketone | 6.349 | 43 | 62351 | 1.092 | ppbv# | 97 |
| 28) Hexane | 6.704 | 57 | 11995 | 0.379 | ppbv# | 76 |
| 29) Chloroform | 6.777 | 83 | 6872 | 0.209 | ppbv | 87 |
| 33) 1,1,1-Trichloroethane | 7.392 | 97 | 265041 | 7.140 | ppbv | 94 |
| 44) Heptane | 8.479 | 43 | 14538 | 0.280 | ppbv# | 86 |
| 49) Toluene | 9.415 | 91 | 34411 | 0.694 | ppbv | 99 |
| 53) Tetrachloroethene | 10.065 | 166 | 40454 | 1.624 | ppbv | 84 |
| 87] 1,1,1-Trichloroethane(... | 7.397 | 97 | 291587 | 6.987 | ppbv# | 98 |
| 90] 1,1-Dichloroethene(sim) | 5.226 | 61 | 2966 | 0.090 | ppbv# | 88 |
| 95] Chloroform(sim) | 6.772 | 83 | 7954 | 0.216 | ppbv | 99 |
| 105] Tetrachloroethene(sim) | 10.071 | 166 | 49858 | 1.681 | ppbv | 98 |

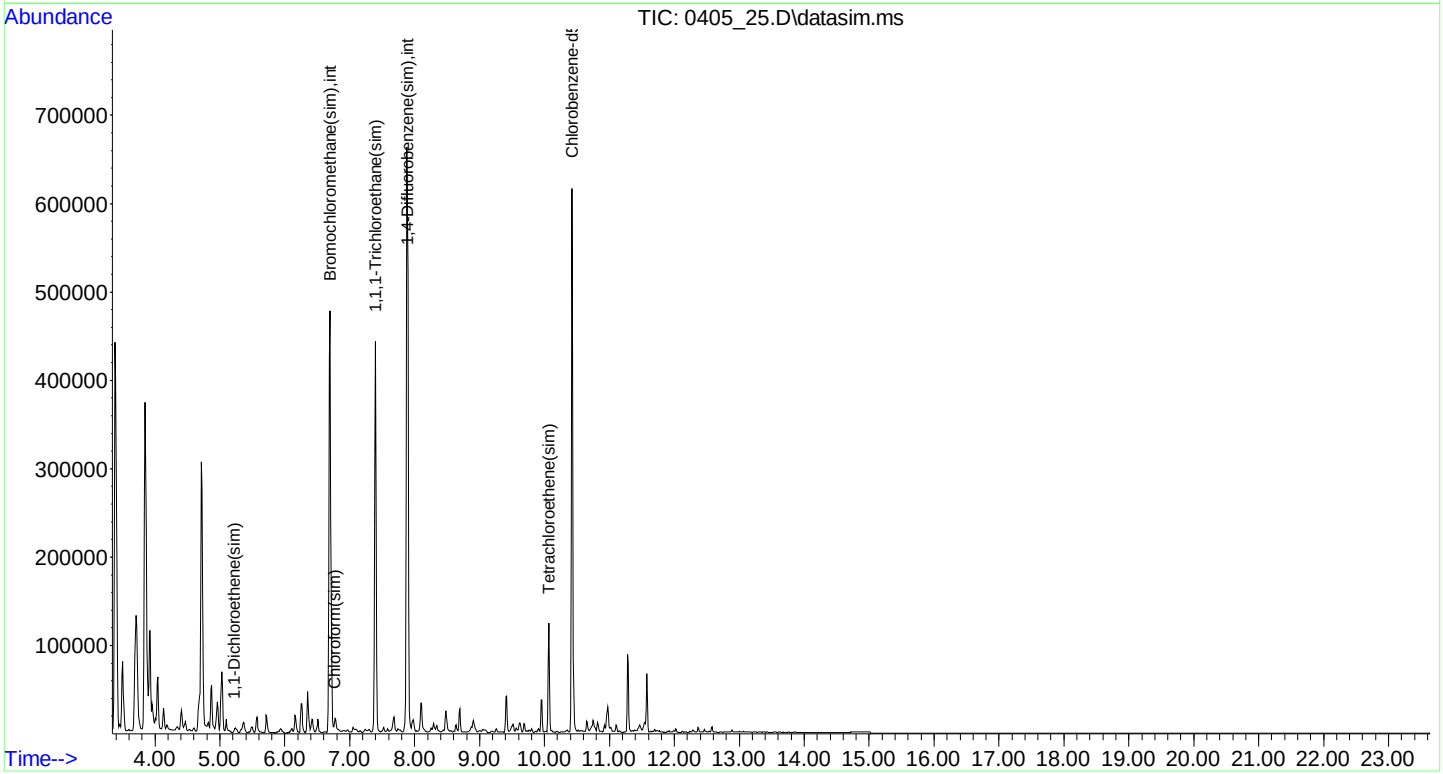
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

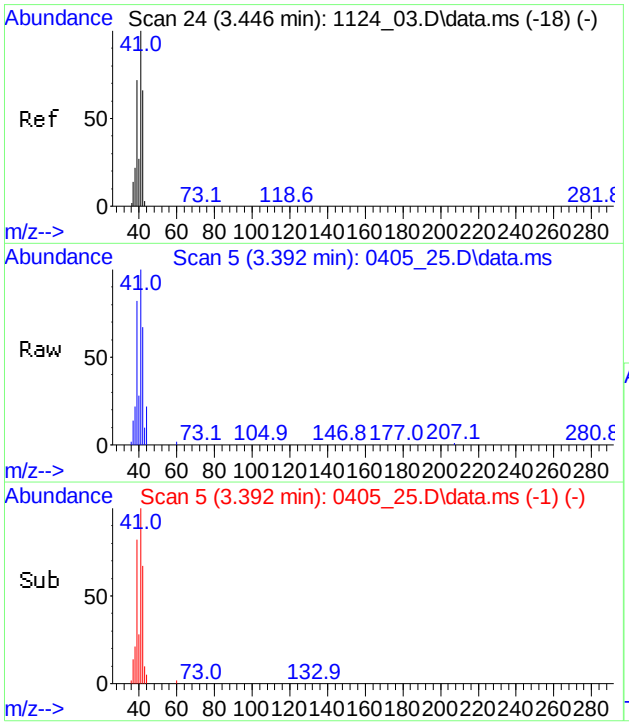
Quantitation Report (QT Reviewed)

Data Path : H:\AIR2021\CHEM20\04APR\05\
Data File : 0405_25.D
Acq On : 6 Apr 2021 12:34 am
Operator :
Client ID : SS-11 (5') 5X
Lab ID : CH92058 5X
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Apr 06 08:26:57 2021
Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0329.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Mar 29 13:12:48 2021
Response via : Initial Calibration



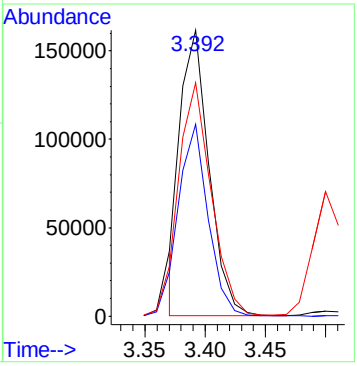



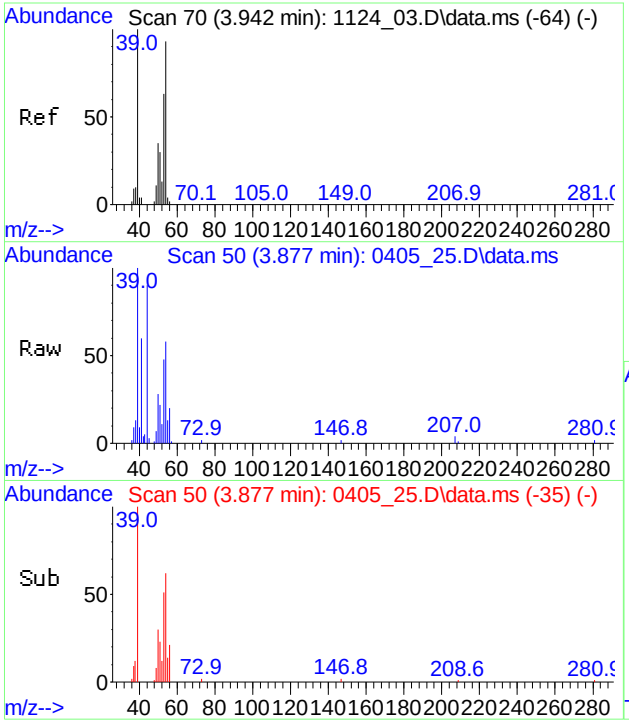



#2
Propylene
Conc: 8$ 11.262 ppbv
RT: 3.392 min Scan# 5
Delta R.T. -0.054 min
Lab File: 0405_25.D
Acq: 6 Apr 2021 12:34 am

Tgt Ion: 41 Resp: 267923

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 64.0 | 62.6 | 93.8 |
| 39 | 85.8 | 63.4 | 95.2 |

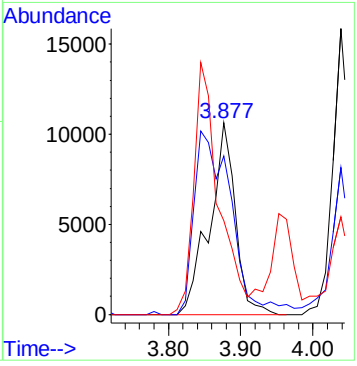


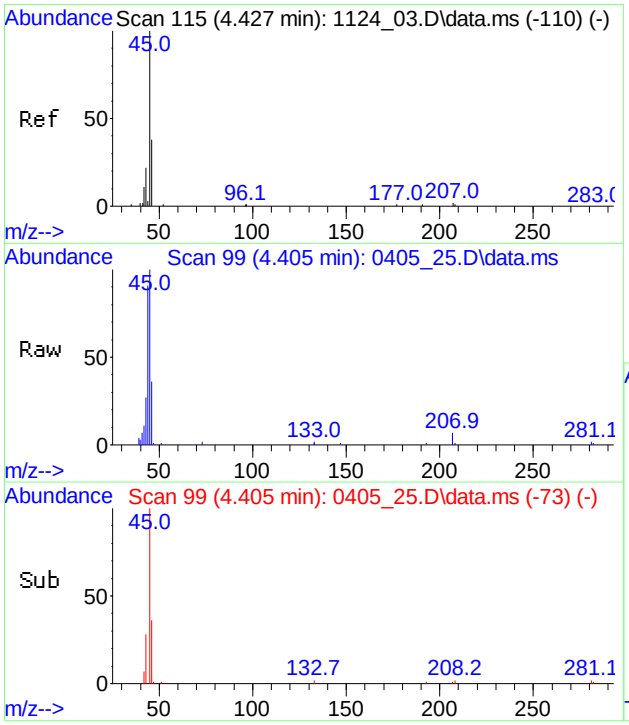




#7
1,3-Butadiene
Conc: 8$ 1.426 ppbv
RT: 3.877 min Scan# 50
Delta R.T. -0.043 min
Lab File: 0405_25.D
Acq: 6 Apr 2021 12:34 am

Tgt Ion: 54 Resp: 26386

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 54 | 100 | | |
| 53 | 137.1 | 65.2 | 97.8# |
| 50 | 127.6 | 43.1 | 64.7# |

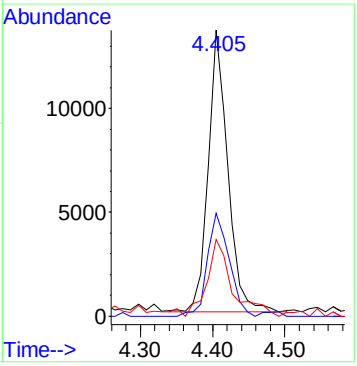


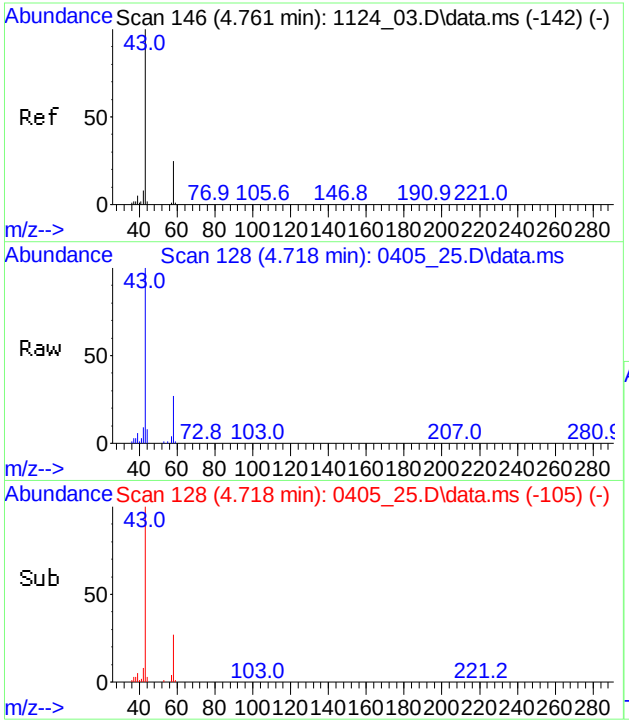



#11
Ethanol
Conc: 8$ 2.251 ppbv
RT: 4.405 min Scan# 99
Delta R.T. -0.021 min
Lab File: 0405_25.D
Acq: 6 Apr 2021 12:34 am

Tgt Ion: 45 Resp: 25662

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 40.0 | 0.0 | 0.0# |
| 43 | 35.1 | 10.0 | 15.0# |

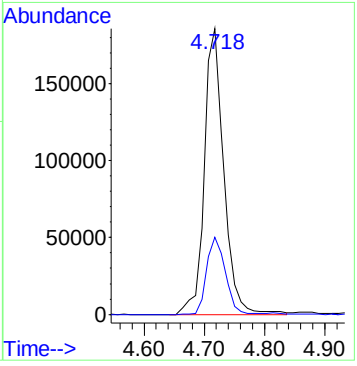


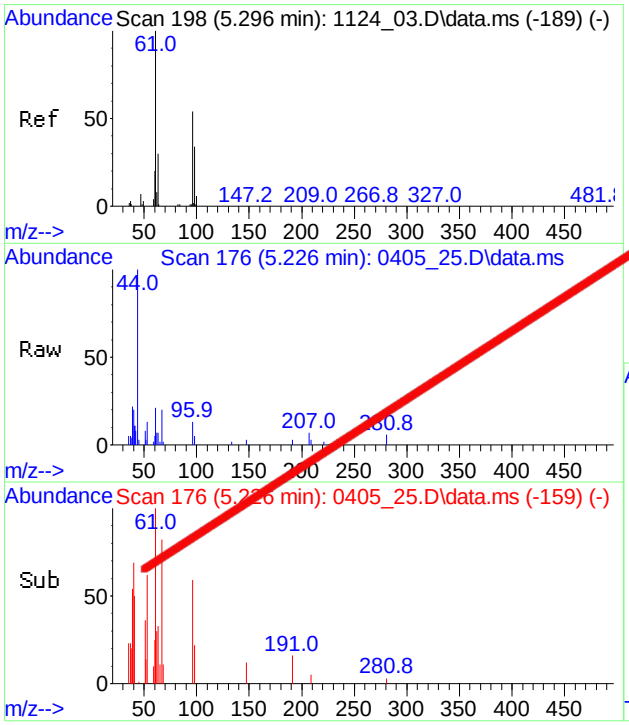




#12
Acetone
Conc: 8$ 10.007 ppbv
RT: 4.718 min Scan# 128
Delta R.T. -0.053 min
Lab File: 0405_25.D
Acq: 6 Apr 2021 12:34 am

Tgt Ion: 43 Resp: 417033

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 26.1 | 20.4 | 30.6 |

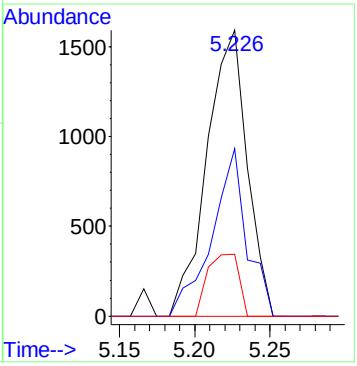


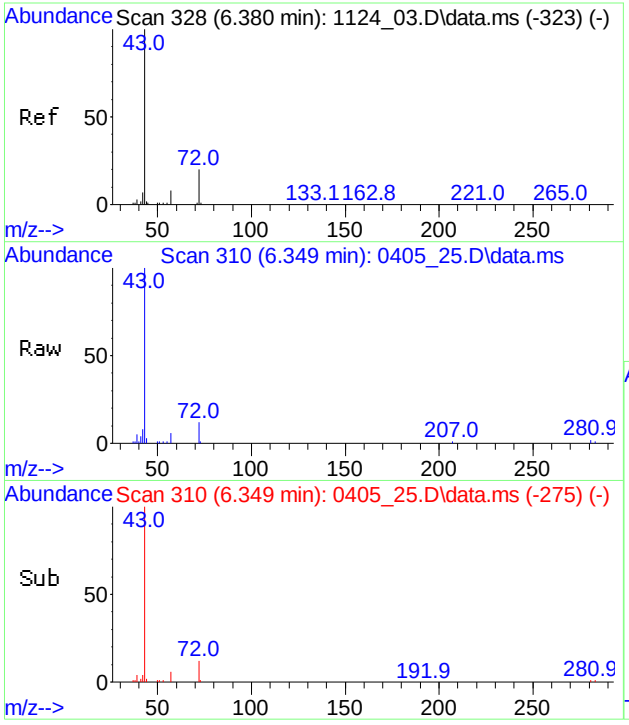



#16
1,1-Dichloroethene
Conc: 8$  Below Cal
RT:  5.226 min  Scan# 176
Delta R.T.  -0.026 min
Lab File:  0405_25.D
Acq:  6 Apr 2021  12:34 am

Tgt Ion: 61 Resp:  2966

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 61 | 100 | | |
| 96 | 50.6 | 39.0 | 58.6 |
| 98 | 16.7 | 23.2 | 34.8# |

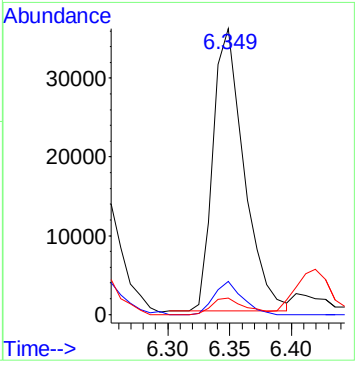


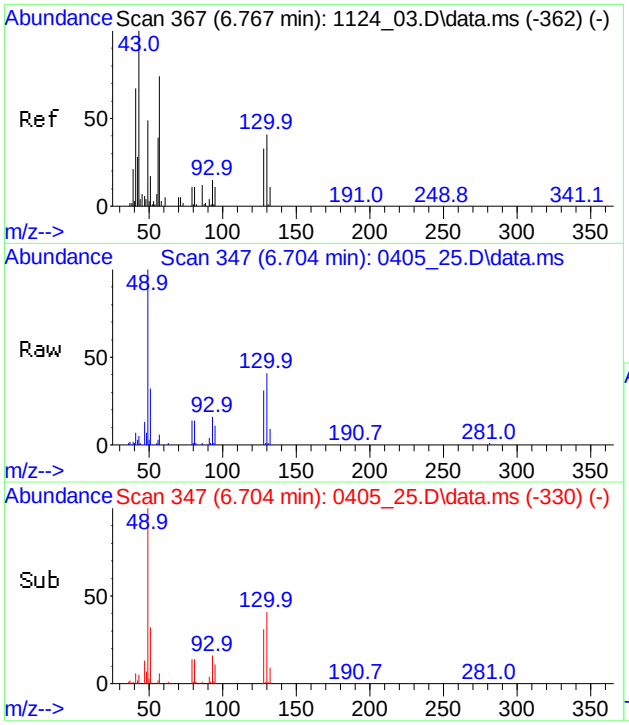




#26
Methyl Ethyl Ketone
Conc: 8$  1.092 ppbv
RT:  6.349 min  Scan# 310
Delta R.T.  -0.023 min
Lab File:  0405_25.D
Acq:  6 Apr 2021  12:34 am

Tgt Ion: 43 Resp:  62351

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 10.6 | 8.8 | 13.2 |
| 57 | 6.3 | 3.0 | 4.6# |

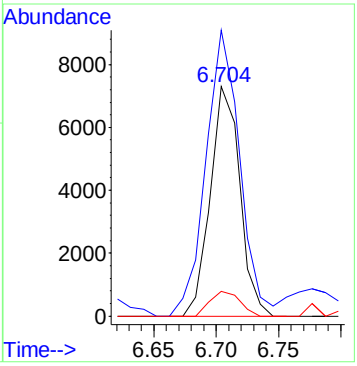


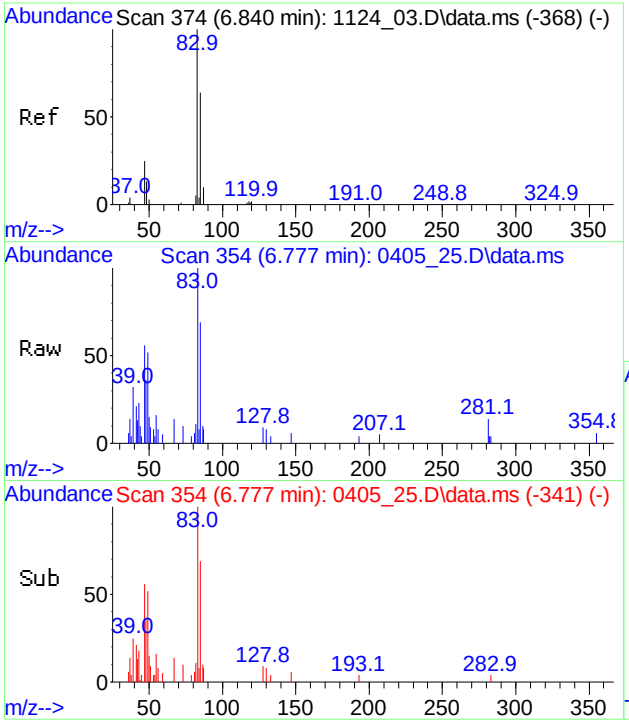



#28
Hexane
Conc: 8$ 0.379 ppbv
RT: 6.704 min Scan# 347
Delta R.T. -0.021 min
Lab File: 0405_25.D
Acq: 6 Apr 2021 12:34 am

Tgt Ion: 57 Resp: 11995

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 143.0 | 91.8 | 137.8# |
| 86 | 10.9 | 7.4 | 11.2 |

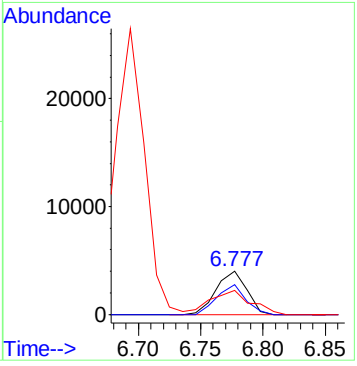


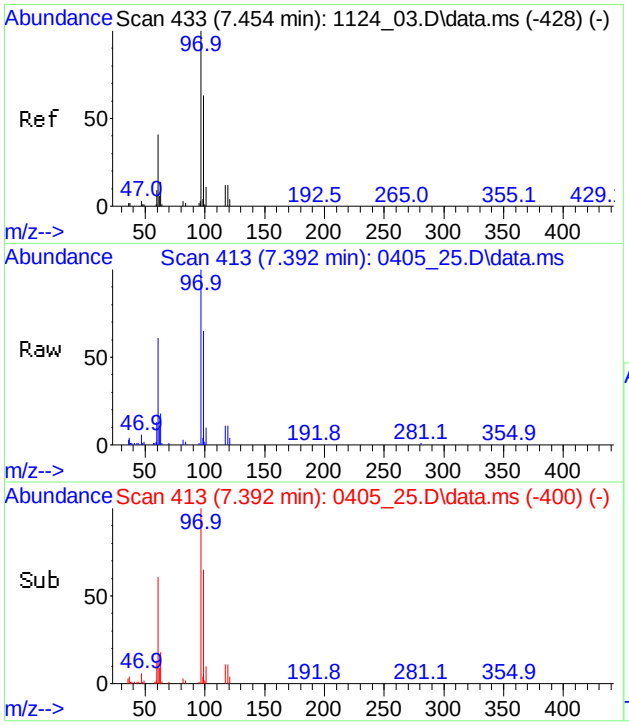




#29
Chloroform
Conc: 8$ 0.209 ppbv
RT: 6.777 min Scan# 354
Delta R.T. -0.010 min
Lab File: 0405_25.D
Acq: 6 Apr 2021 12:34 am

Tgt Ion: 83 Resp: 6872

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 64.7 | 45.2 | 85.2 |
| 47 | 73.3 | 34.1 | 74.1 |

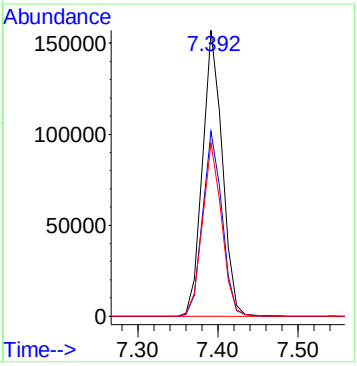


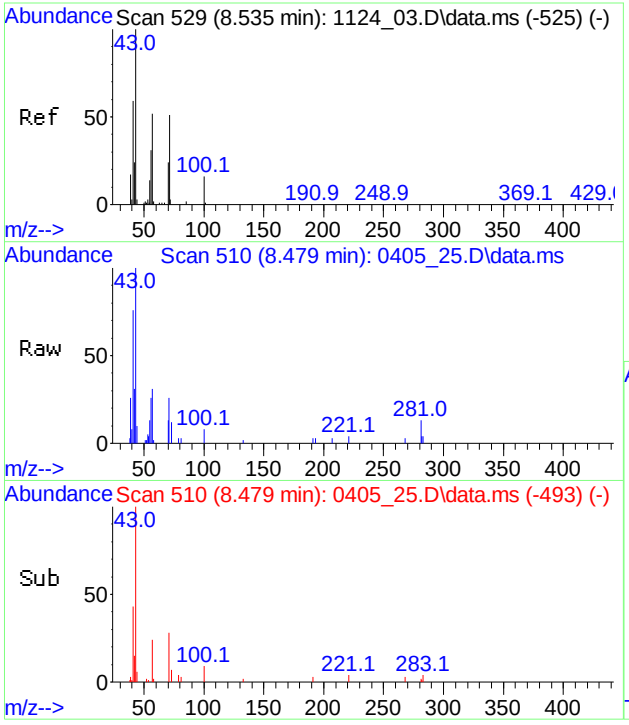



#33
1,1,1-Trichloroethane
Conc: 8$ 7.140 ppbv
RT: 7.392 min Scan# 413
Delta R.T. -0.010 min
Lab File: 0405_25.D
Acq: 6 Apr 2021 12:34 am

Tgt Ion: 97 Resp: 265041

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 63.4 | 53.8 | 80.8 |
| 61 | 59.2 | 51.4 | 77.0 |

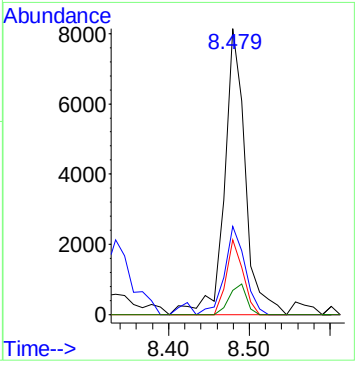


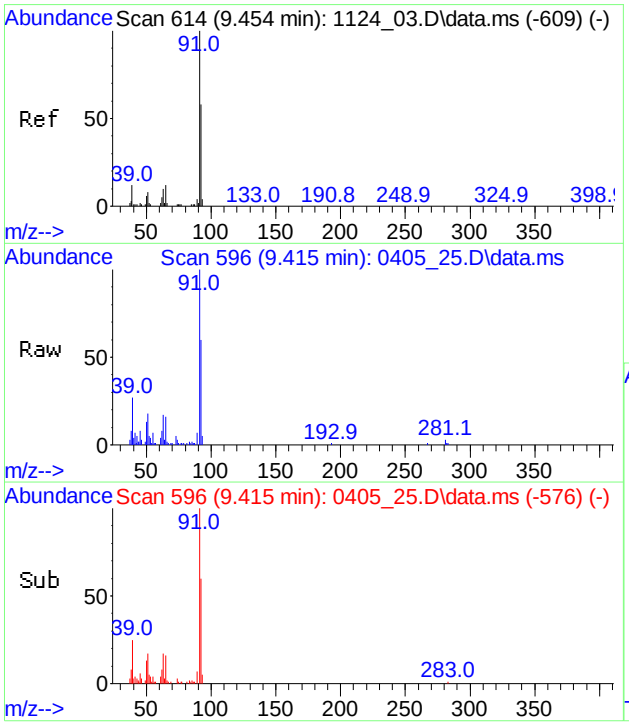




#44
Heptane
Conc: 8$ 0.280 ppbv
RT: 8.479 min Scan# 510
Delta R.T. -0.011 min
Lab File: 0405_25.D
Acq: 6 Apr 2021 12:34 am

Tgt Ion: 43 Resp: 14538

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 57 | 30.2 | 31.5 | 47.3# |
| 71 | 20.9 | 24.0 | 36.0# |
| 100 | 8.8 | 7.0 | 10.6 |

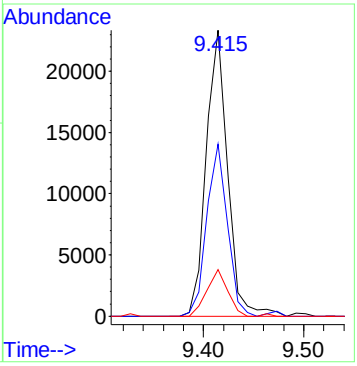


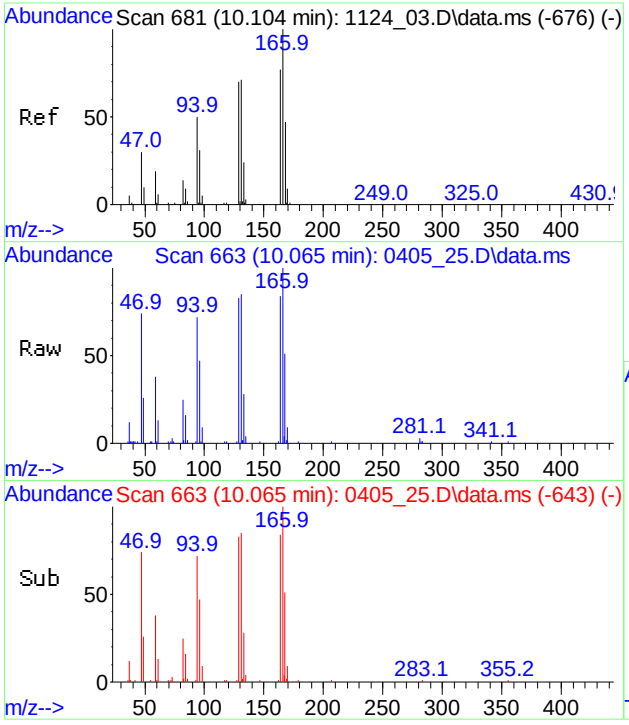



#49
Toluene
Conc: 8$ 0.694 ppbv
RT: 9.415 min Scan# 596
Delta R.T. -0.009 min
Lab File: 0405_25.D
Acq: 6 Apr 2021 12:34 am

Tgt Ion: 91 Resp: 34411

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 58.0 | 46.8 | 70.2 |
| 65 | 15.8 | 11.5 | 17.3 |

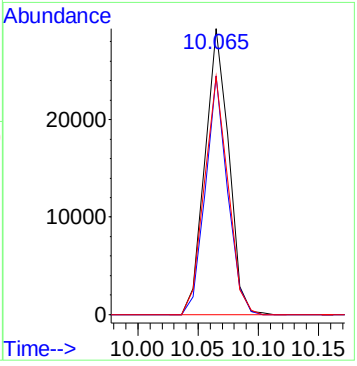


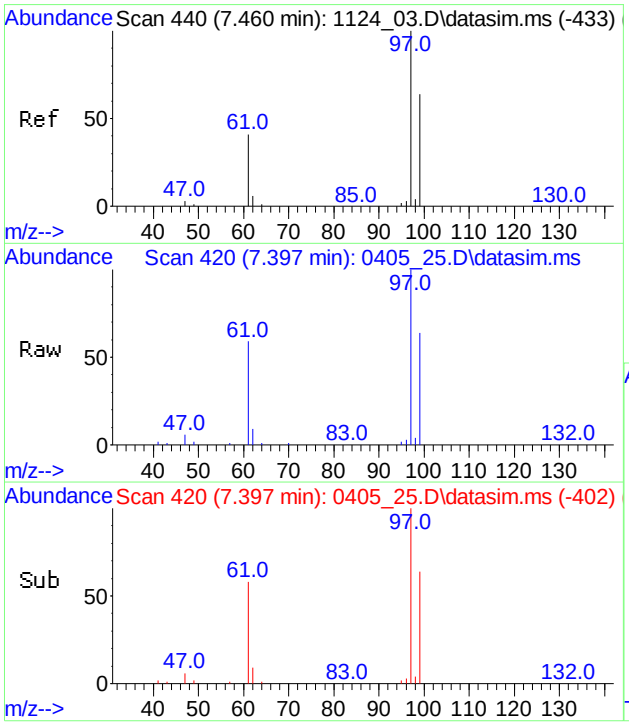




#53
Tetrachloroethene
Conc: 8$ 1.624 ppbv
RT: 10.065 min Scan# 663
Delta R.T. -0.010 min
Lab File: 0405_25.D
Acq: 6 Apr 2021 12:34 am

Tgt Ion:166 Resp: 40454

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 164 | 77.7 | 52.6 | 78.8 |
| 129 | 82.8 | 55.5 | 83.3 |

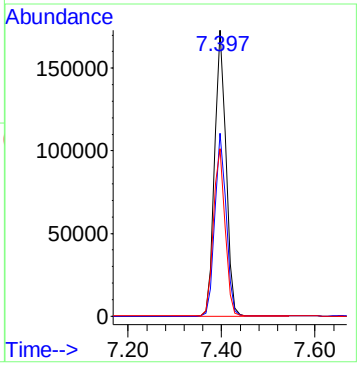


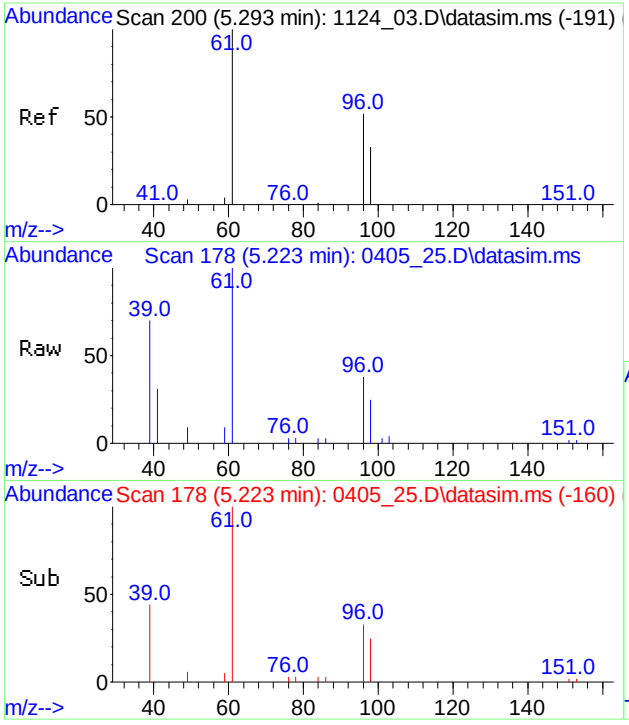



#87
1,1,1-Trichloroethane(sim)
Conc: 8$ 6.987 ppbv
RT: 7.397 min Scan# 420
Delta R.T. -0.010 min
Lab File: 0405_25.D
Acq: 6 Apr 2021 12:34 am

Tgt Ion: 97 Resp: 291587

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 63.6 | 62.4 | 62.4# |
| 61 | 60.0 | 46.0 | 69.0 |

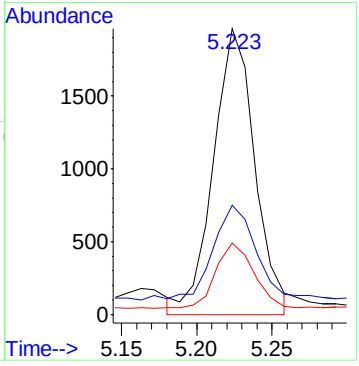


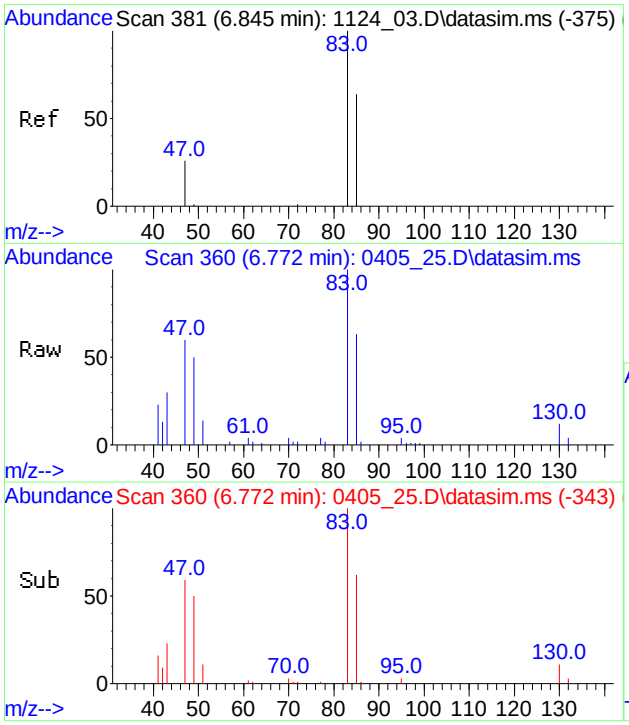




#90
1,1-Dichloroethene(sim)
Conc: 8$ 0.090 ppbv
RT: 5.226 min Scan# 178
Delta R.T. -0.026 min
Lab File: 0405_25.D
Acq: 6 Apr 2021 12:34 am

Tgt Ion: 61 Resp: 2966

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 61 | 100 | | |
| 96 | 50.6 | 37.8 | 56.8 |
| 98 | 16.7 | 23.2 | 34.8# |

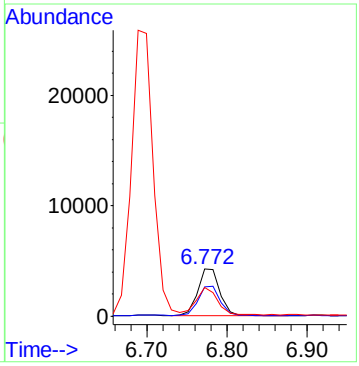


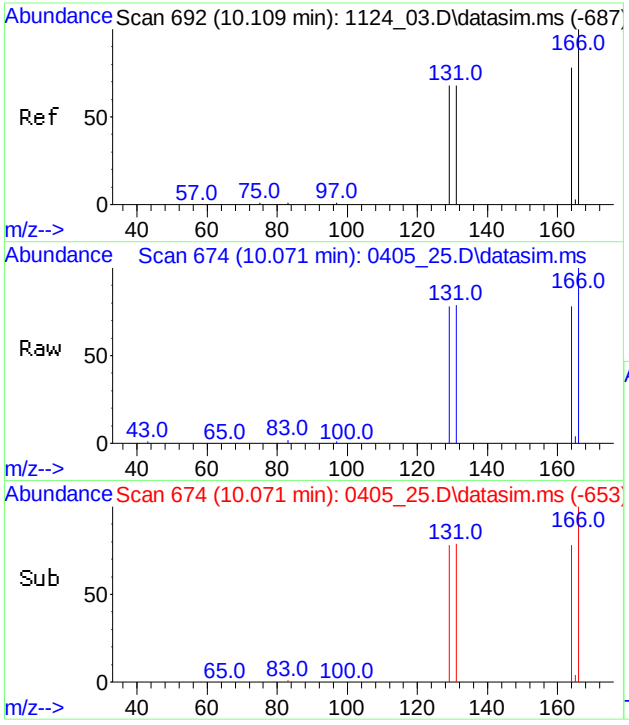



#95
Chloroform(sim)
Conc: 8$ 0.216 ppbv
RT: 6.772 min Scan# 360
Delta R.T. -0.021 min
Lab File: 0405_25.D
Acq: 6 Apr 2021 12:34 am

Tgt Ion: 83 Resp: 7954

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 63.6 | 52.2 | 78.2 |
| 47 | 58.6 | 47.4 | 71.2 |

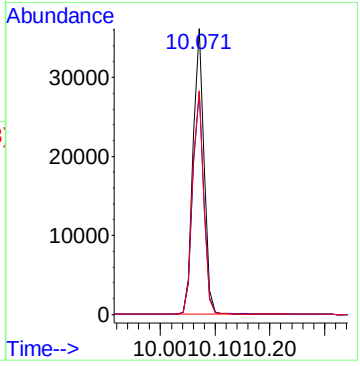



#105
Tetrachloroethene(sim)
Conc: 8$ 1.681 ppbv
RT: 10.071 min Scan# 674
Delta R.T. 0.001 min
Lab File: 0405_25.D
Acq: 6 Apr 2021 12:34 am

Tgt Ion:166 Resp: 49858

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 164 | 78.6 | 58.1 | 98.1 |
| 129 | 79.0 | 56.6 | 96.6 |



1

AIR ANALYSIS DATA SHEET

CLIENT ID: SS-9 (5')

Client: GC-ENV Lab: Phoenix Env. Labs

SDG No.: GCH92051 Lab Sample ID: CH92059

Canister: 470 Lab File ID: 0405_49.D

Instrument: CHEM24 Column: RTX-VMS Date Received: 04/05/21

Purge Volume 200 (cc) Date Analyzed: 04/06/21

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 | 0.274 | | 0.202 | 0.202 | r |
| 74-87-3 | Chloromethane | 0.539 | | 0.485 | 0.485 | r |
| 106-99-0 | 1,3-Butadiene | 0.452 | U | 0.452 | 0.452 | r |
| 75-00-3 | Chloroethane | 0.379 | U | 0.379 | 0.379 | r |
| 64-17-5 | Ethanol | 9.71 | S | 0.531 | 0.531 | r |
| 67-64-1 | Acetone | 14.5 | S | 0.421 | 0.421 | r |
| 67-63-0 | Isopropylalcohol | 1.11 | 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 | 2.80 | | 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 | 2.58 | | 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 | 0.336 | | 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 | 3.96 | | 0.266 | 0.266 | r |
| 591-78-6 | 2-Hexanone(MBK) | 0.244 | U | 0.244 | 0.244 | r |
| 127-18-4 | Tetrachloroethene | 0.475 | | 0.037 | 0.037 | r |
| 108-90-7 | Chlorobenzene | 0.217 | U | 0.217 | 0.217 | r |
| 100-41-4 | Ethylbenzene | 0.795 | | 0.230 | 0.230 | r |
| 179601-23-1 | m,p-Xylene | 1.43 | | 0.230 | 0.230 | r |
| 100-42-5 | Styrene | 0.970 | | 0.235 | 0.235 | r |
| 95-47-6 | o-Xylene | 0.483 | | 0.230 | 0.230 | r |
| 98-82-8 | Isopropylbenzene | 0.204 | U | 0.204 | 0.204 | r |
| 622-96-8 | 4-Ethyltoluene | 0.212 | | 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: SS-9 (5')

Client: GC-ENV Lab: Phoenix Env. Labs

SDG No.: GCH92051 Lab Sample ID: CH92059

Canister: 470 Lab File ID: 0405_49.D

Instrument: CHEM24 Column: RTX-VMS Date Received: 04/05/21

Purge Volume 200 (cc) Date Analyzed: 04/06/21

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) | 0.196 | | 0.178 | 0.178 | r |
| 71-55-6 | 1,1,1-Trichloroethane(sim) | 0.183 | U | 0.183 | 0.183 | r |
| 56-23-5 | Carbon Tetrachloride(sim) | 0.069 | | 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) | 0.221 | U | 0.221 | 0.221 | r |
| 79-00-5 | 1,1,2-Trichloroethane(sim) | 0.183 | U | 0.183 | 0.183 | r |
| 124-48-1 | Dibromochloromethane(sim) | 0.118 | U | 0.118 | 0.118 | r |
| 106-93-4 | 1,2-Dibromoethane(EDB)(sim) | 0.130 | U | 0.130 | 0.130 | r |
| 75-25-2 | Bromoform(sim) | 0.097 | U | 0.097 | 0.097 | r |
| 630-20-6 | 1,1,1,2-Tetrachloroethane(sim) | 0.146 | U | 0.146 | 0.146 | r |
| 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 |
| | | | | | | |
| | | | | | | |
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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:\AIR2021\CHEM24\04APR\05\
Data File : 0405_49.D
Acq On : 6 Apr 2021 8:43 pm
Operator : Keith
Client ID : SS-9 (5')
Lab ID : CH92059
ALS Vial : 47 Sample Multiplier: 1

Quant Time: Apr 07 08:23:11 2021
Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 26 09:02:26 2021
Response via : Initial Calibration

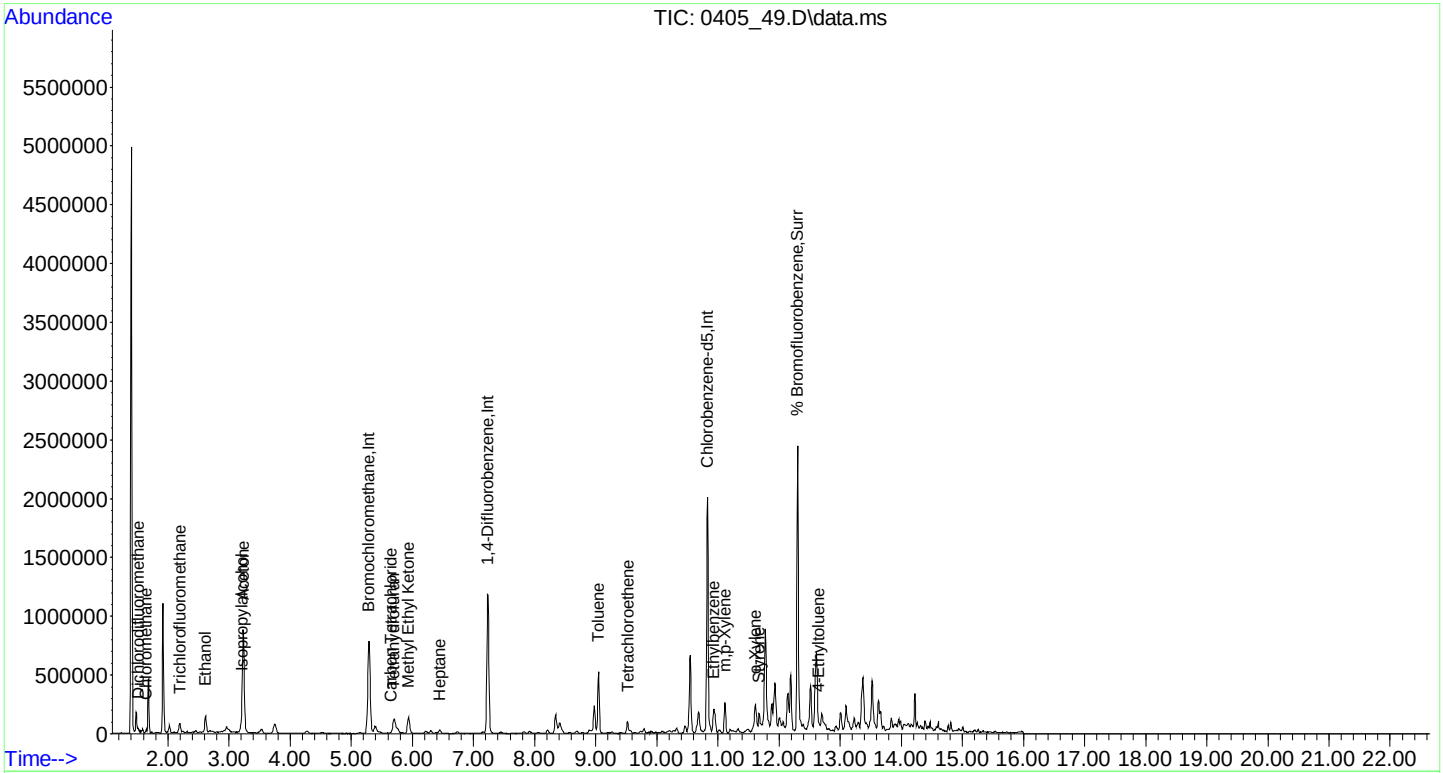
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Bromochloromethane | 5.286 | 130 | 342806 | 10.000 | ng | | 0.02 |
| 36) 1,4-Difluorobenzene | 7.232 | 114 | 1086342 | 10.000 | ng | | 0.00 |
| 53) Chlorobenzene-d5 | 10.830 | 82 | 507515 | 10.000 | ng | | 0.01 |
| 80) Bromochloromethane(sim) | 5.289 | 130 | 351880 | 10.000 | ng | # | 0.02 |
| 95) 1,4-Difluorobenzene(sim) | 7.232 | 114 | 1086342 | 10.000 | ng | | 0.00 |
| 105) Chlorobenzene-d5(sim) | 10.830 | 82 | 507515 | 10.000 | ng | | 0.01 |
| System Monitoring Compounds | | | | | | | |
| 62) % Bromofluorobenzene | 12.303 | 95 | 701557 | 9.967 | ppbv | | 0.00 |
| Spiked Amount 10.000 | Range 70 - 130 | | Recovery = | 99.70% | | | |
| Target Compounds | | | | | | | Qvalue |
| 3) Dichlorodifluoromethane | 1.513 | 85 | 17138 | 0.274 | ppbv | | 98 |
| 4) Chloromethane | 1.643 | 50 | 25536 | 0.539 | ppbv | | 80 |
| 10) Ethanol | 2.615 | 45 | 147880 | 9.709 | ppbv | | 94 |
| 12) Acetone | 3.231 | 43 | 1277473 | 14.496 | ppbv | | 95 |
| 13) Trichlorofluoromethane | 2.191 | 101 | 19354 | 0.220 | ppbv | | 99 |
| 14) Isopropylalcohol | 3.210 | 45 | 86774 | 1.110 | ppbv# | | 1 |
| 25) Methyl Ethyl Ketone | 5.935 | 43 | 254489 | 2.801 | ppbv | | 99 |
| 30) Tetrahydrofuran | 5.697 | 41 | 77358 | 2.575 | ppbv | | 94 |
| 34) Carbon Tetrachloride | 5.654 | 117 | 6176 | 0.075 | ppbv | | 99 |
| 43) Heptane | 6.451 | 43 | 26027 | 0.336 | ppbv# | | 82 |
| 48) Toluene | 9.047 | 91 | 350419 | 3.959 | ppbv | | 99 |
| 52) Tetrachloroethene | 9.523 | 166 | 25158 | 0.475 | ppbv | | 96 |
| 56) Ethylbenzene | 10.932 | 91 | 101195 | 0.795 | ppbv | | 99 |
| 57) m,p-Xylene | 11.118 | 91 | 136428 | 1.425 | ppbv | | 99 |
| 59) Styrene | 11.674 | 104 | 66625 | 0.970 | ppbv | | 96 |
| 61) o-Xylene | 11.612 | 91 | 46265 | 0.483 | ppbv | | 98 |
| 66) 4-Ethyltoluene | 12.647 | 105 | 29991 | 0.212 | ppbv# | | 82 |
| 84] Trichlorofluoromethane... | 2.194 | 101 | 19603 | 0.196 | ppbv | | 100 |
| 87] Carbon Tetrachloride(sim) | 5.654 | 117 | 5898 | 0.069 | ppbv | | 98 |
| 104] Tetrachloroethene(sim) | 9.526 | 166 | 26071 | 0.459 | ppbv | | 99 |
| 108] Ethylbenzene(sim) | 10.935 | 91 | 108850 | 0.784 | ppb | | 99 |
| 109] m,p-Xylene(sim) | 11.118 | 91 | 137022 | 1.450 | ppbv | | 99 |
| 110] o-Xylene(sim) | 11.615 | 91 | 50444 | 0.510 | ppb | # | 97 |

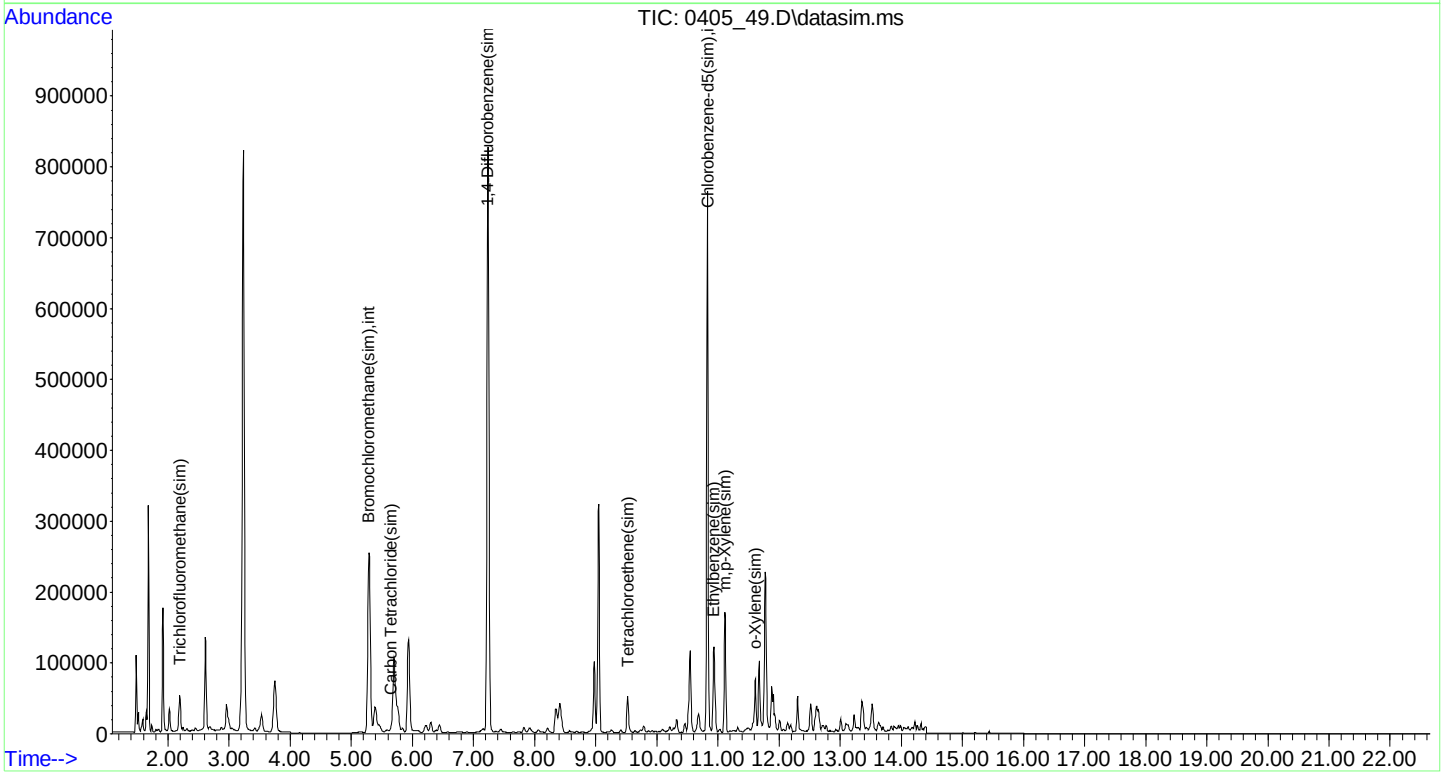
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

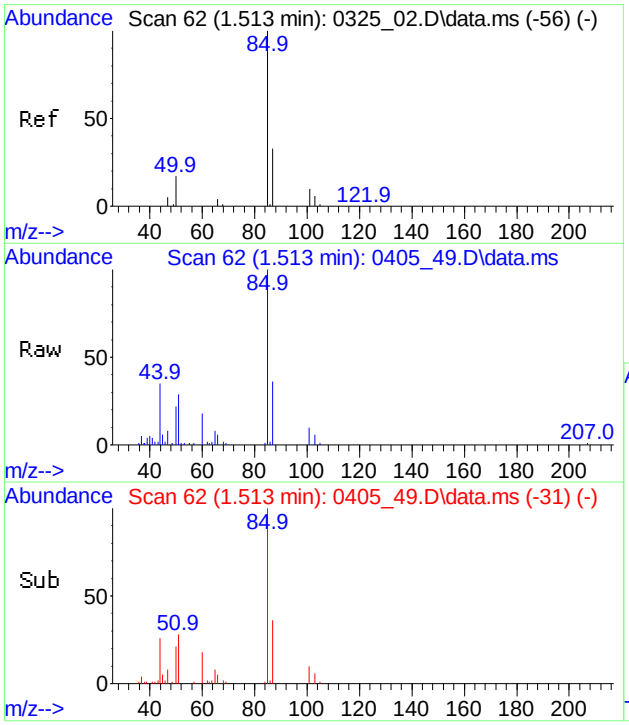
Quantitation Report (QT Reviewed)

Data Path : H:\AIR2021\CHEM24\04APR\05\
Data File : 0405_49.D
Acq On : 6 Apr 2021 8:43 pm
Operator : Keith
Client ID : SS-9 (5')
Lab ID : CH92059
ALS Vial : 47 Sample Multiplier: 1

Quant Time: Apr 07 08:23:11 2021
Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 26 09:02:26 2021
Response via : Initial Calibration



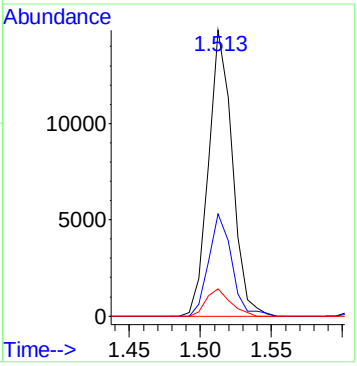



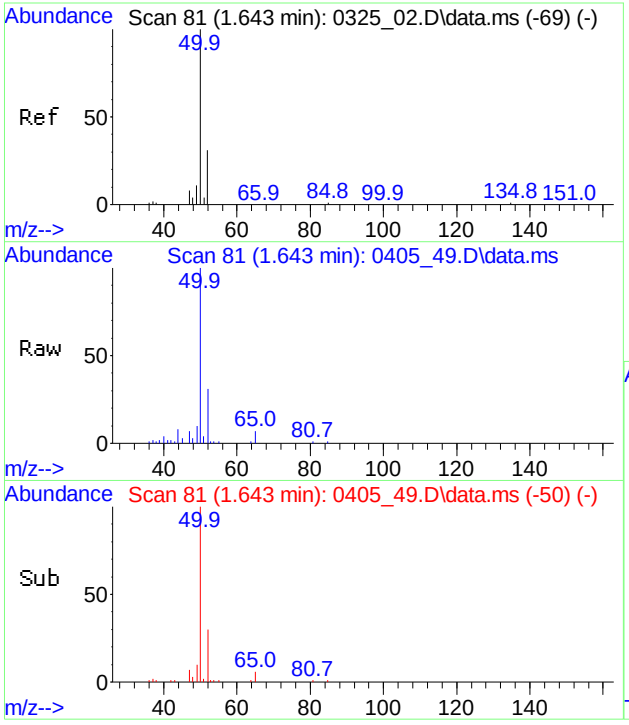



#3
Dichlorodifluoromethane
Conc: 8$ 0.274 ppbv
RT: 1.513 min Scan# 62
Delta R.T. 0.014 min
Lab File: 0405_49.D
Acq: 6 Apr 2021 8:43 pm

Tgt Ion: 85 Resp: 17138

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 34.8 | 26.6 | 40.0 |
| 101 | 9.8 | 7.9 | 11.9 |

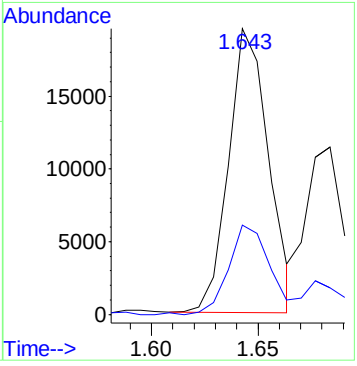


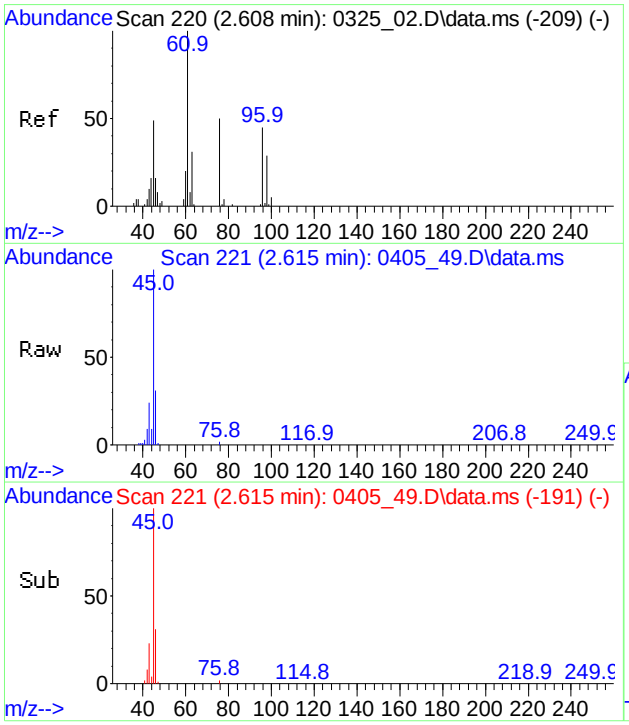




#4
Chloromethane
Conc: 8$ 0.539 ppbv
RT: 1.643 min Scan# 81
Delta R.T. 0.014 min
Lab File: 0405_49.D
Acq: 6 Apr 2021 8:43 pm

Tgt Ion: 50 Resp: 25536

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 33.8 | 4.0 | 44.0 |

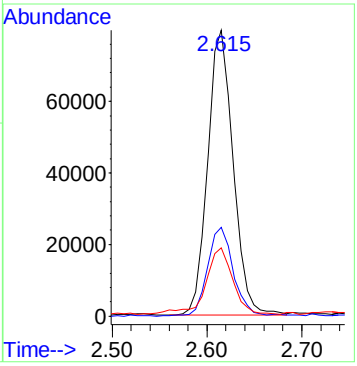


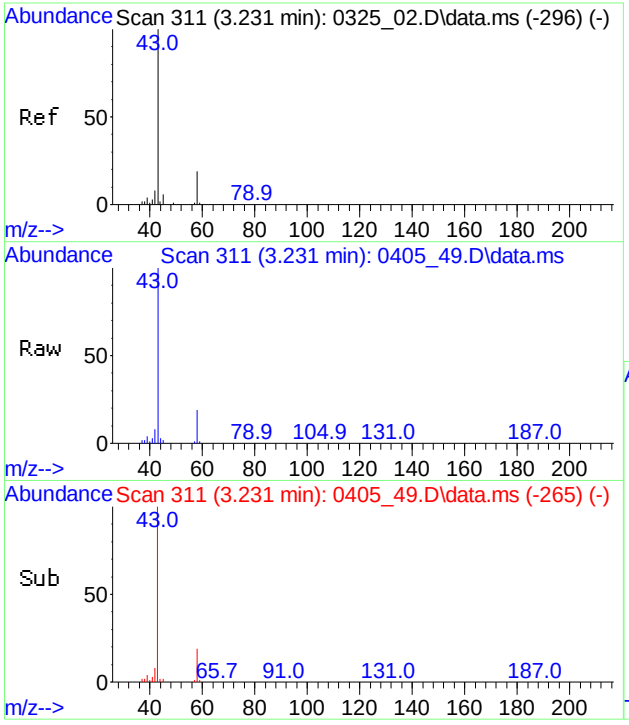



#10
Ethanol
Conc: 8$ 9.709 ppbv
RT: 2.615 min Scan# 221
Delta R.T. 0.020 min
Lab File: 0405_49.D
Acq: 6 Apr 2021 8:43 pm

Tgt Ion: 45 Resp: 147880

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 31.8 | 27.8 | 41.6 |
| 43 | 24.7 | 17.3 | 25.9 |

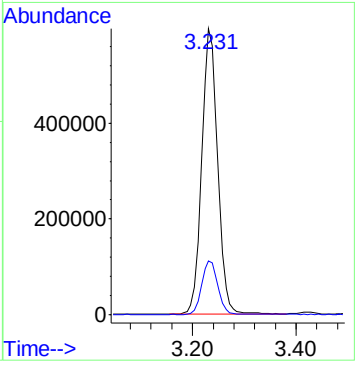


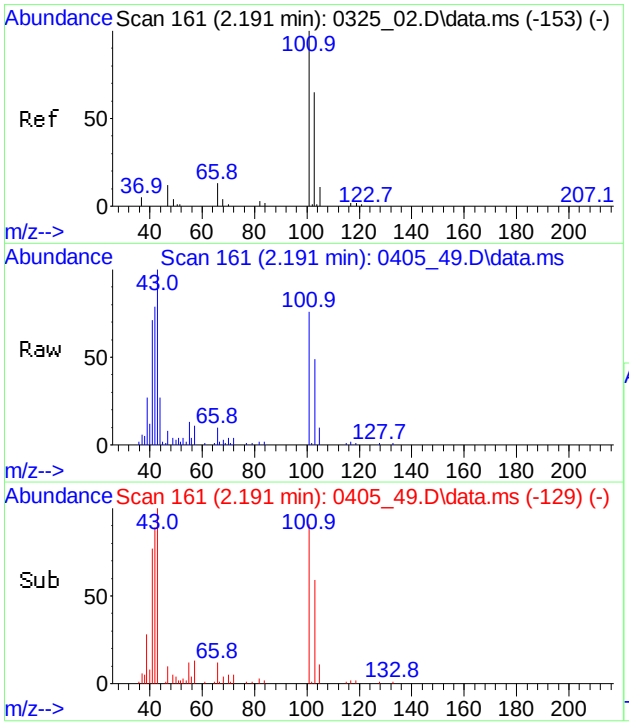




#12
Acetone
Conc: 8$ 14.496 ppbv
RT: 3.231 min Scan# 311
Delta R.T. 0.014 min
Lab File: 0405_49.D
Acq: 6 Apr 2021 8:43 pm

Tgt Ion: 43 Resp: 1277473

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 18.8 | 13.2 | 19.8 |

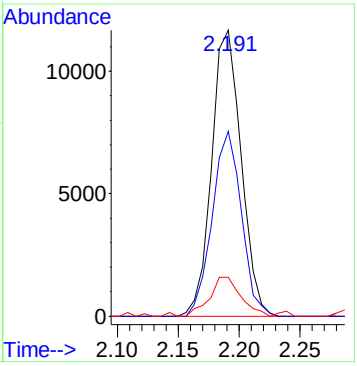


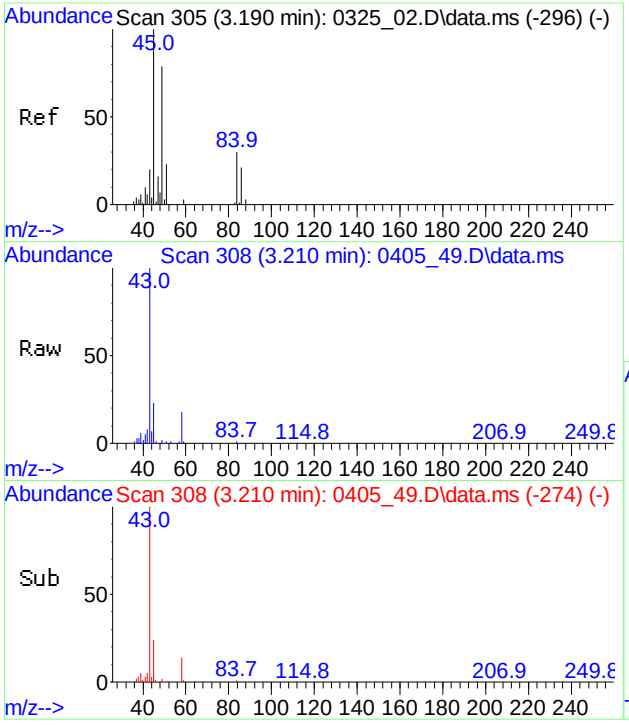



#13
Trichlorofluoromethane
Conc: 8$ 0.220 ppbv
RT: 2.191 min Scan# 161
Delta R.T. 0.021 min
Lab File: 0405_49.D
Acq: 6 Apr 2021 8:43 pm

Tgt Ion:101 Resp: 19354

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 63.9 | 51.5 | 77.3 |
| 66 | 14.4 | 10.6 | 15.8 |

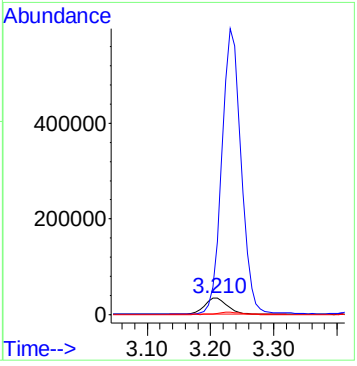


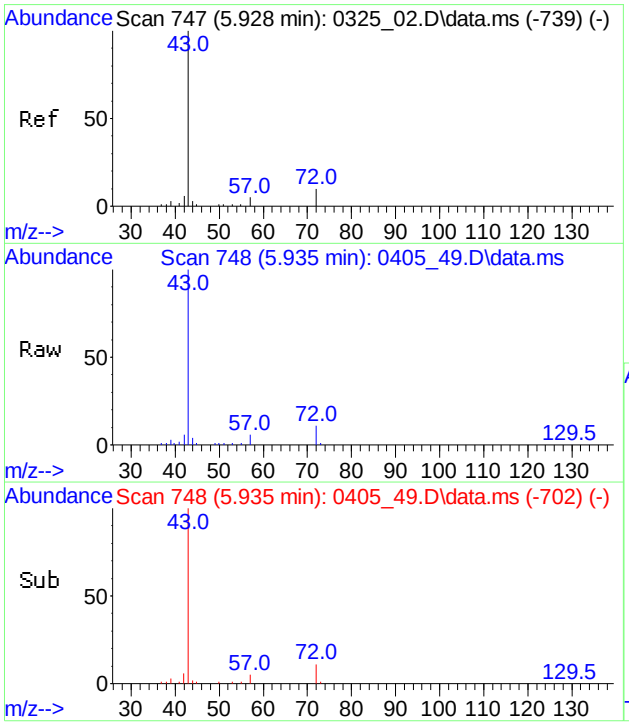




#14
Isopropylalcohol
Conc: 8$ 1.110 ppbv
RT: 3.210 min Scan# 308
Delta R.T. 0.034 min
Lab File: 0405_49.D
Acq: 6 Apr 2021 8:43 pm

Tgt Ion: 45 Resp: 86774

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 1470.9 | 84.1 | 126.1# |
| 59 | 12.9 | 2.6 | 4.0# |

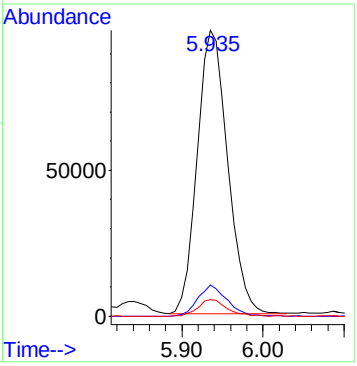


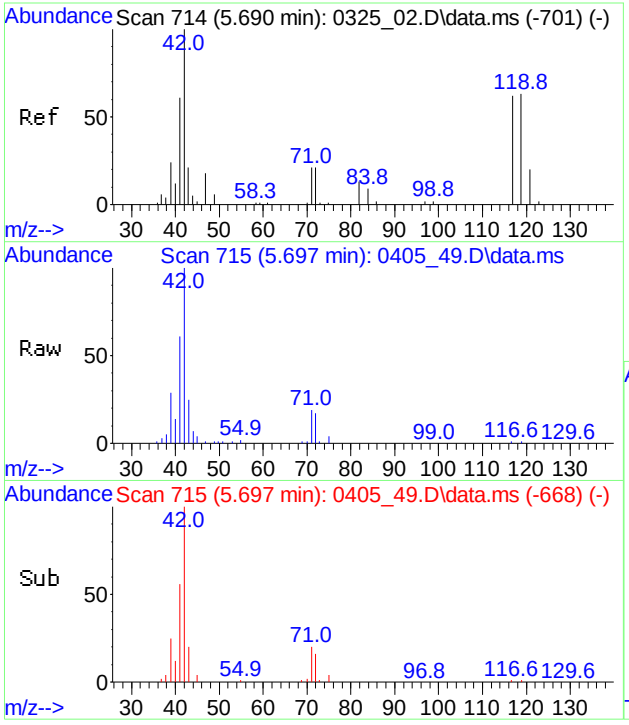



#25
Methyl Ethyl Ketone
Conc: 8$ 2.801 ppbv
RT: 5.935 min Scan# 748
Delta R.T. 0.029 min
Lab File: 0405_49.D
Acq: 6 Apr 2021 8:43 pm

Tgt Ion: 43 Resp: 254489

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 10.3 | 8.5 | 12.7 |
| 57 | 5.5 | 4.2 | 6.4 |

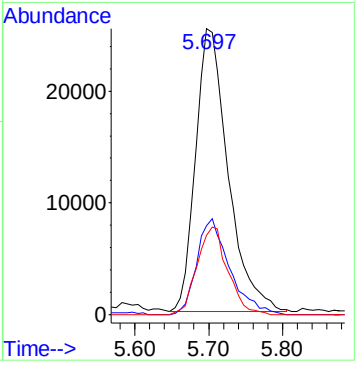


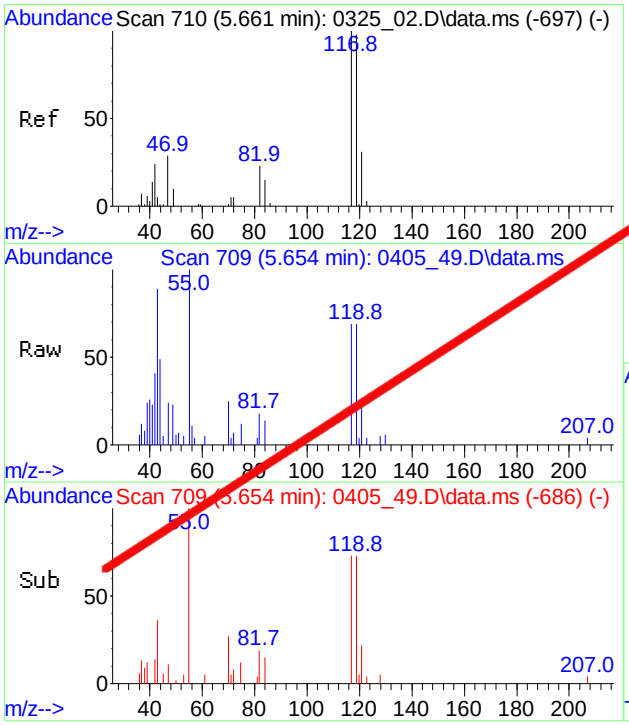




#30
Tetrahydrofuran
Conc: 8$ 2.575 ppbv
RT: 5.697 min Scan# 715
Delta R.T. 0.036 min
Lab File: 0405_49.D
Acq: 6 Apr 2021 8:43 pm

Tgt Ion: 41 Resp: 77358

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 71 | 34.1 | 28.6 | 42.8 |
| 72 | 29.1 | 28.1 | 42.1 |

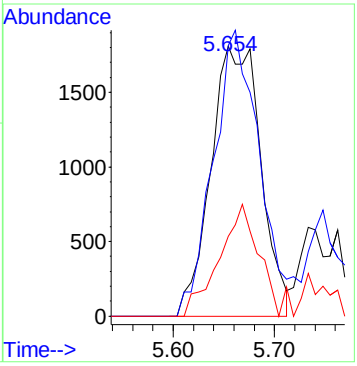


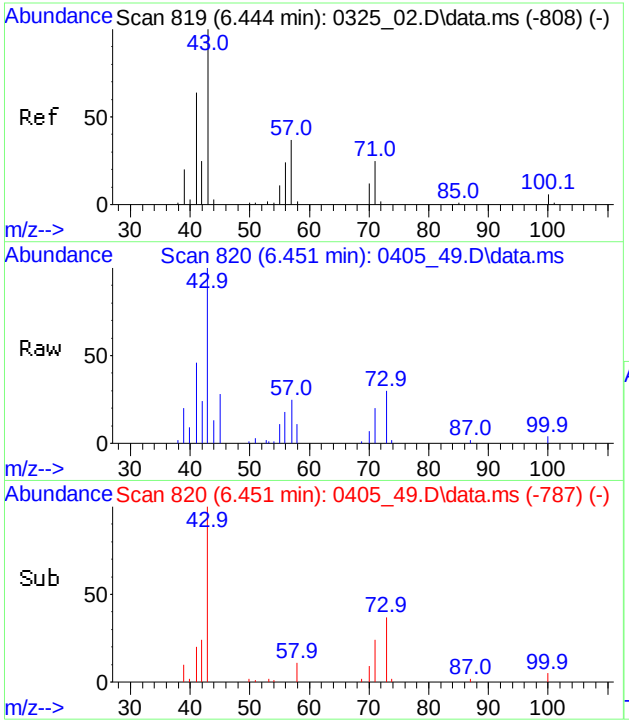



#34
Carbon Tetrachloride
Conc: 8$  Below Cal
RT:  5.654 min  Scan# 709
Delta R.T.  0.015 min
Lab File:  0405_49.D
Acq:  6 Apr 2021  8:43 pm

Tgt Ion:117 Resp:  6176

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 97.2 | 78.0 | 118.0 |
| 121 | 32.5 | 12.1 | 52.1 |

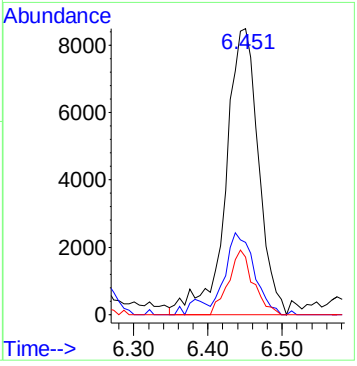


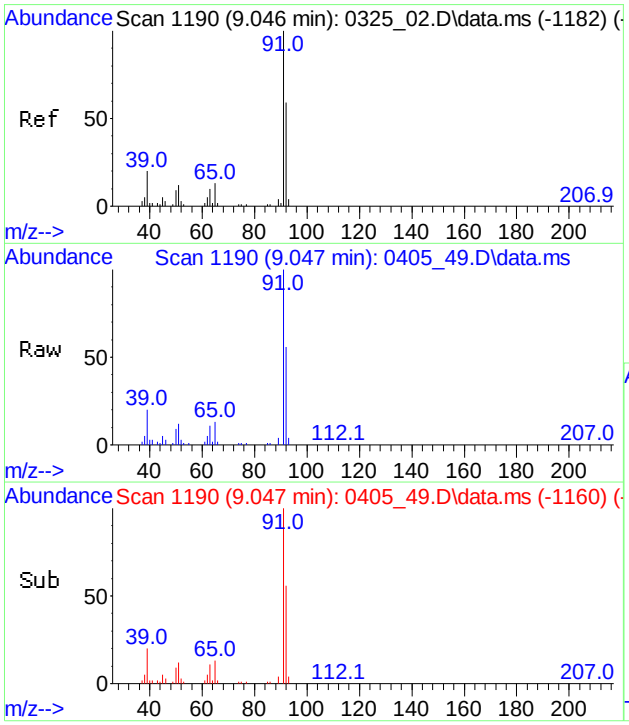




#43
Heptane
Conc: 8$  0.336 ppbv
RT:  6.451 min  Scan# 820
Delta R.T.  0.028 min
Lab File:  0405_49.D
Acq:  6 Apr 2021  8:43 pm

Tgt Ion: 43 Resp:  26027

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 57 | 24.9 | 29.5 | 44.3# |
| 71 | 17.1 | 19.8 | 29.8# |

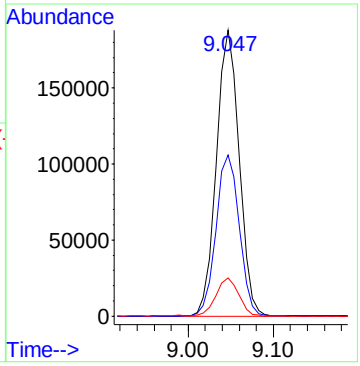


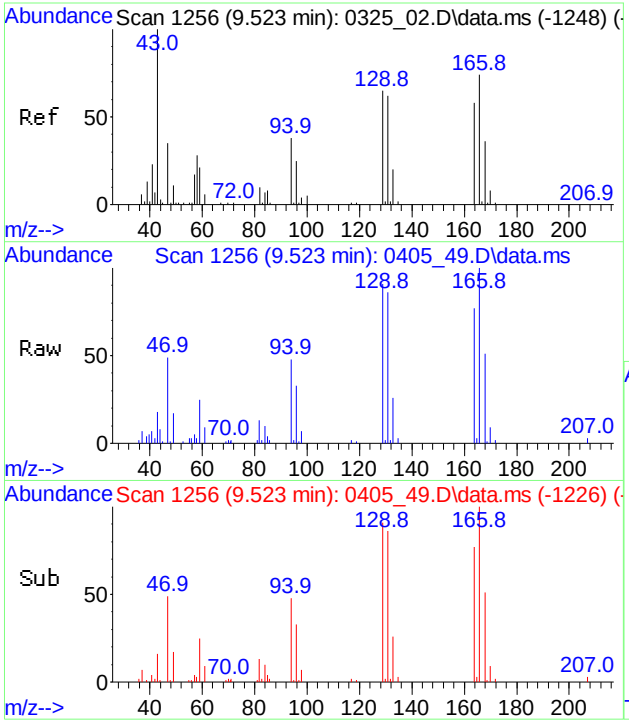



#48
Toluene
Conc: 8$ 3.959 ppbv
RT: 9.047 min Scan# 1190
Delta R.T. 0.015 min
Lab File: 0405_49.D
Acq: 6 Apr 2021 8:43 pm

Tgt Ion: 91 Resp: 350419

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 57.6 | 46.3 | 69.5 |
| 65 | 13.2 | 10.1 | 15.1 |

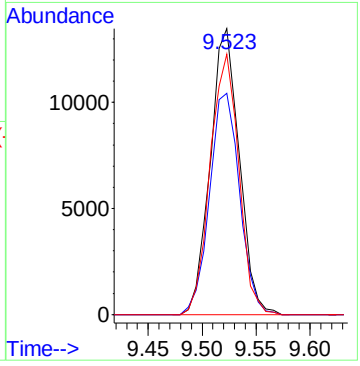


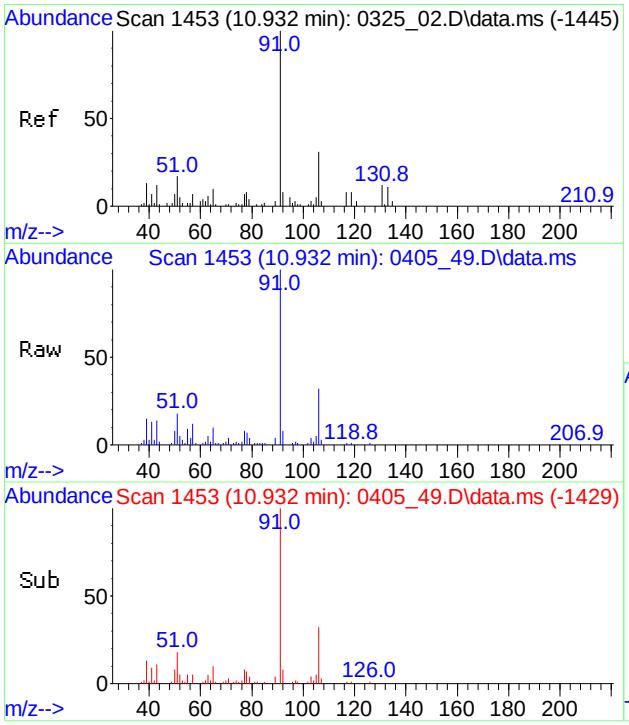




#52
Tetrachloroethene
Conc: 8$ 0.475 ppbv
RT: 9.523 min Scan# 1256
Delta R.T. 0.015 min
Lab File: 0405_49.D
Acq: 6 Apr 2021 8:43 pm

Tgt Ion:166 Resp: 25158

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 164 | 80.2 | 62.2 | 93.4 |
| 129 | 89.7 | 68.3 | 102.5 |

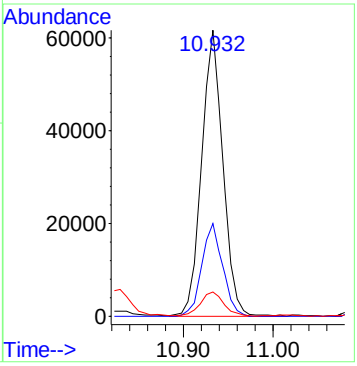


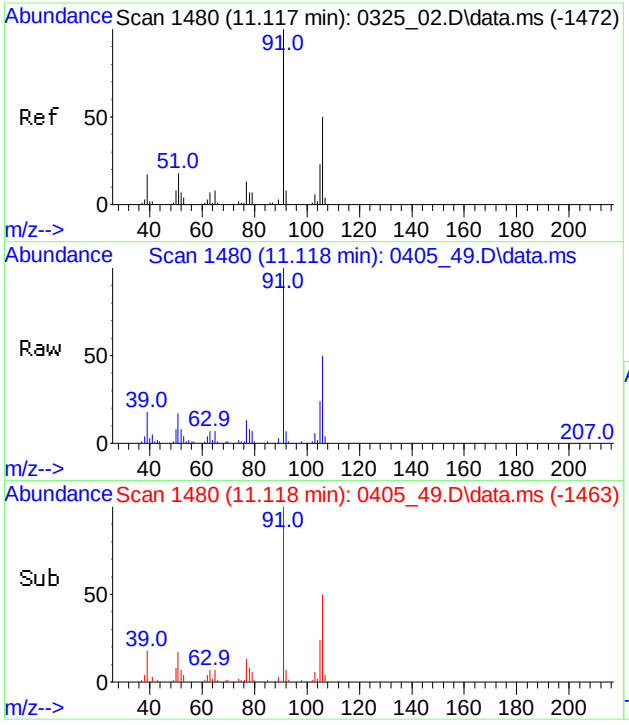



#56
Ethylbenzene
Conc: 8$ 0.795 ppbv
RT: 10.932 min Scan# 1453
Delta R.T. 0.014 min
Lab File: 0405_49.D
Acq: 6 Apr 2021 8:43 pm

Tgt Ion: 91 Resp: 101195

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 31.7 | 11.4 | 51.4 |
| 77 | 9.3 | 0.0 | 28.7 |

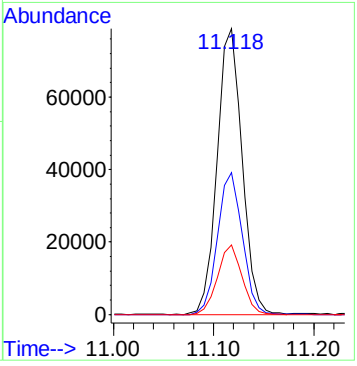


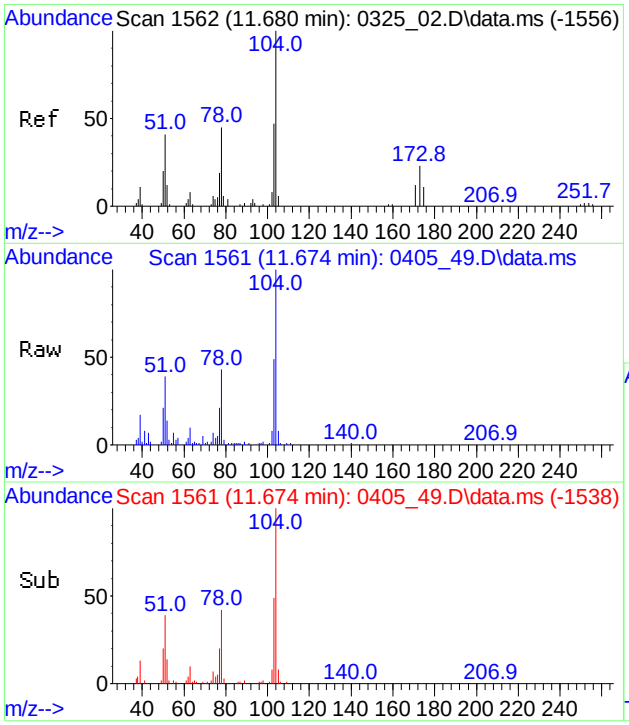




#57
m,p-Xylene
Conc: 8$ 1.425 ppbv
RT: 11.118 min Scan# 1480
Delta R.T. 0.014 min
Lab File: 0405_49.D
Acq: 6 Apr 2021 8:43 pm

Tgt Ion: 91 Resp: 136428

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 49.2 | 39.8 | 59.8 |
| 105 | 23.8 | 18.2 | 27.4 |

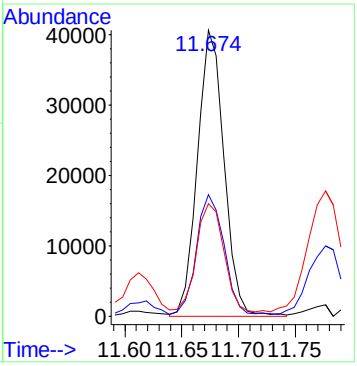


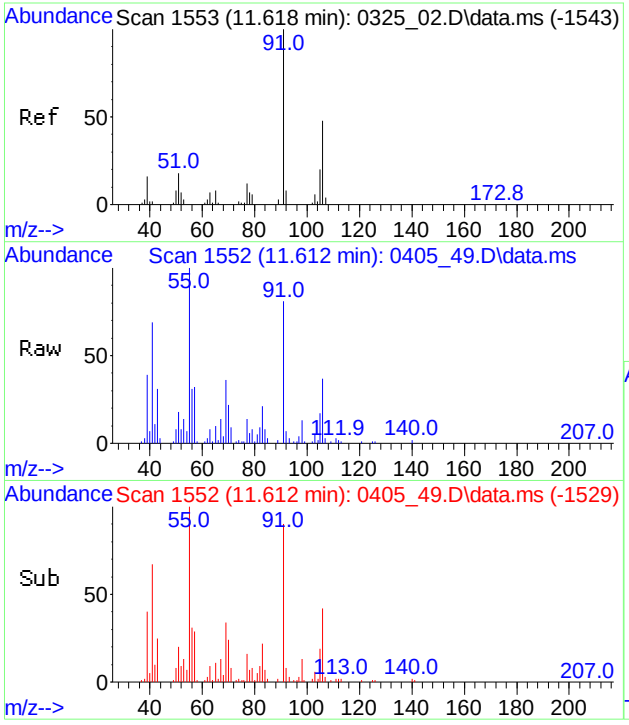



#59
Styrene
Conc: 8$ 0.970 ppbv
RT: 11.674 min Scan# 1561
Delta R.T. 0.008 min
Lab File: 0405_49.D
Acq: 6 Apr 2021 8:43 pm

Tgt Ion:104 Resp: 66625

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 43.1 | 36.2 | 54.4 |
| 51 | 38.9 | 33.0 | 49.6 |

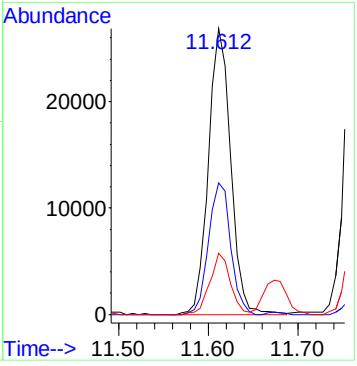


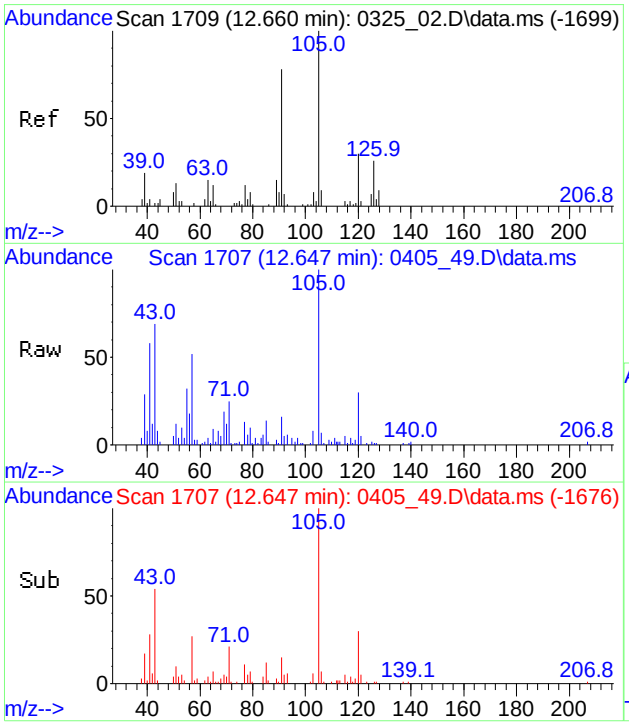




#61
o-Xylene
Conc: 8$ 0.483 ppbv
RT: 11.612 min Scan# 1552
Delta R.T. 0.008 min
Lab File: 0405_49.D
Acq: 6 Apr 2021 8:43 pm

Tgt Ion: 91 Resp: 46265

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 45.6 | 37.5 | 56.3 |
| 105 | 19.7 | 15.1 | 22.7 |

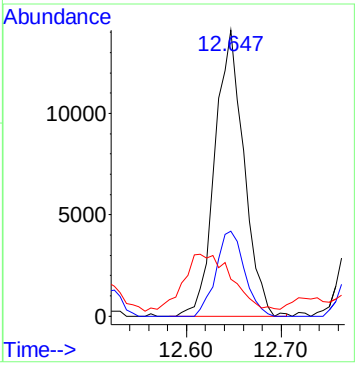


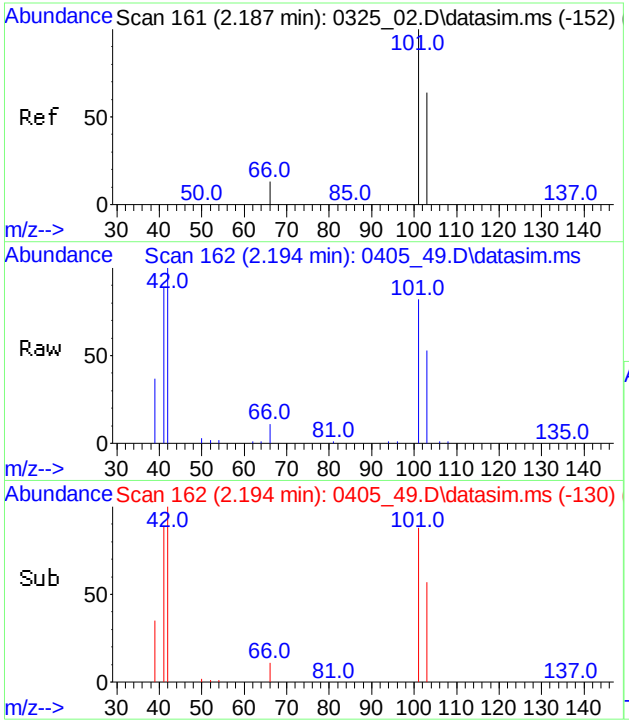



#66
4-Ethyltoluene
Conc: 8$ 0.212 ppbv
RT: 12.647 min Scan# 1707
Delta R.T. 0.001 min
Lab File: 0405_49.D
Acq: 6 Apr 2021 8:43 pm

Tgt Ion:105 Resp: 29991

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 29.1 | 24.0 | 36.0 |
| 77 | 34.1 | 9.2 | 13.8# |

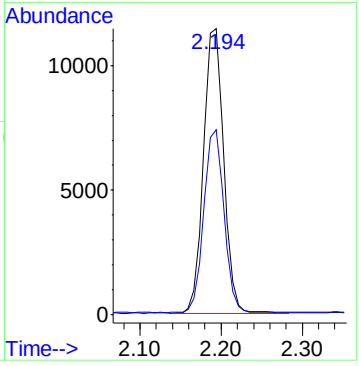


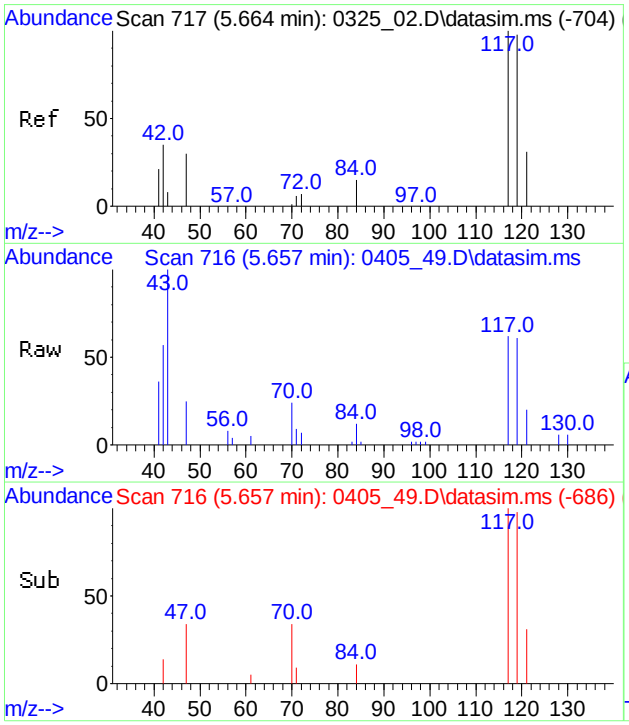




#84
Trichlorofluoromethane(sim)
Conc: 8$ 0.196 ppbv
RT: 2.194 min Scan# 162
Delta R.T. 0.021 min
Lab File: 0405_49.D
Acq: 6 Apr 2021 8:43 pm

Tgt Ion:101 Resp: 19603

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 64.5 | 51.9 | 77.9 |

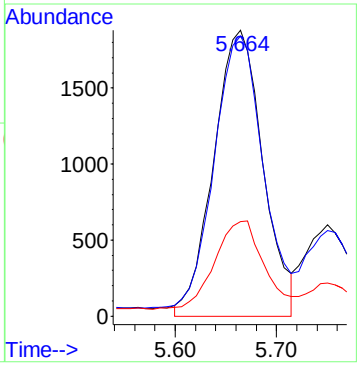


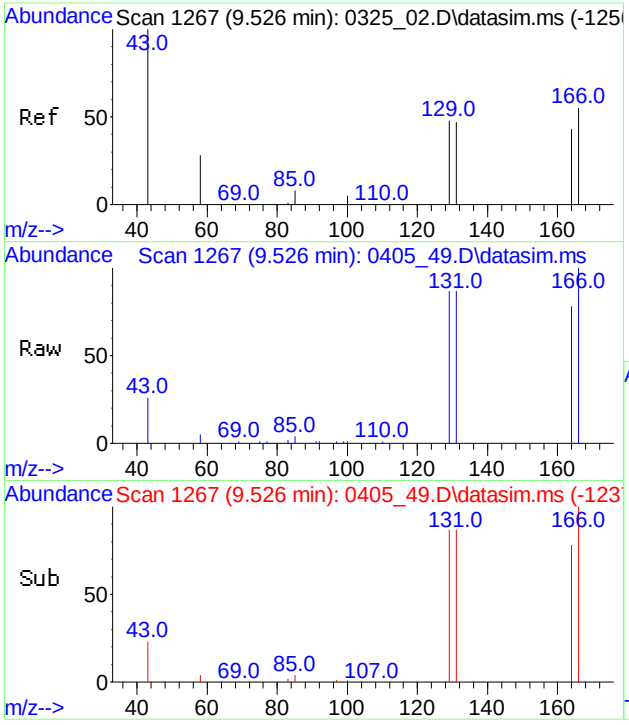



#87
Carbon Tetrachloride(sim)
Conc: 8$ 0.069 ppbv
RT: 5.654 min Scan# 716
Delta R.T. 0.015 min
Lab File: 0405_49.D
Acq: 6 Apr 2021 8:43 pm

Tgt Ion:117 Resp: 5898

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 99.9 | 78.4 | 117.6 |
| 121 | 32.9 | 25.7 | 38.5 |

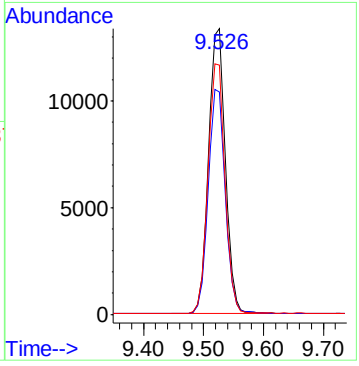


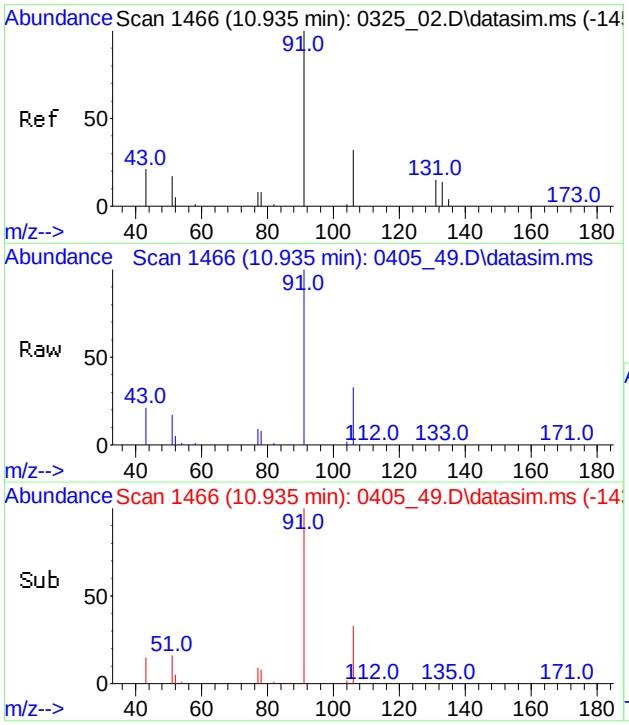




#104
Tetrachloroethene(sim)
Conc: 8$ 0.459 ppbv
RT: 9.526 min Scan# 1267
Delta R.T. 0.015 min
Lab File: 0405_49.D
Acq: 6 Apr 2021 8:43 pm

Tgt Ion:166 Resp: 26071

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 164 | 79.4 | 58.4 | 98.4 |
| 129 | 88.1 | 66.6 | 106.6 |

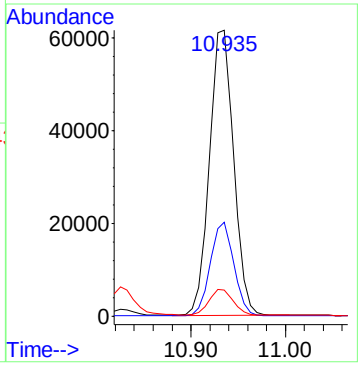


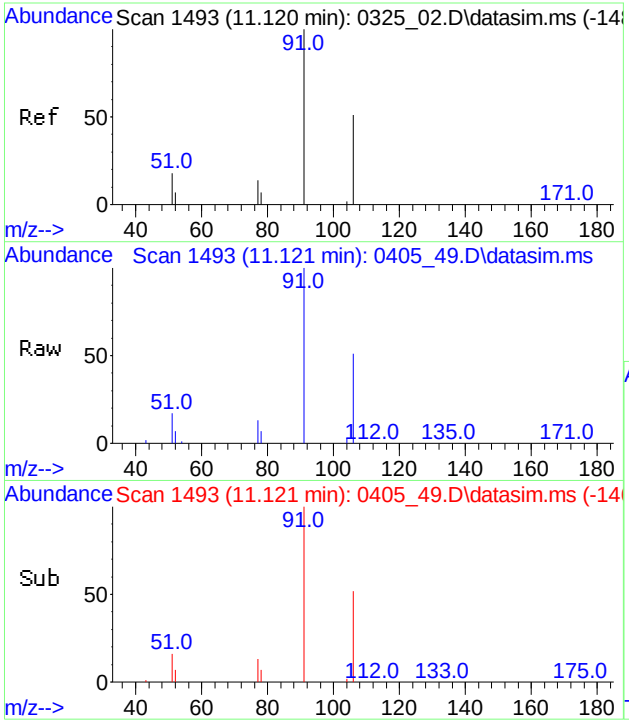



#108
Ethylbenzene(sim)
Conc: 8$ 0.784 ppb
RT: 10.935 min Scan# 1466
Delta R.T. 0.014 min
Lab File: 0405_49.D
Acq: 6 Apr 2021 8:43 pm

Tgt Ion: 91 Resp: 108850

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 32.0 | 25.8 | 38.8 |
| 77 | 9.1 | 7.0 | 10.6 |

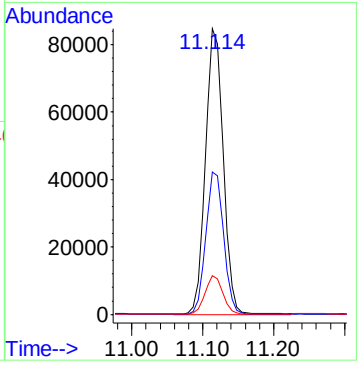


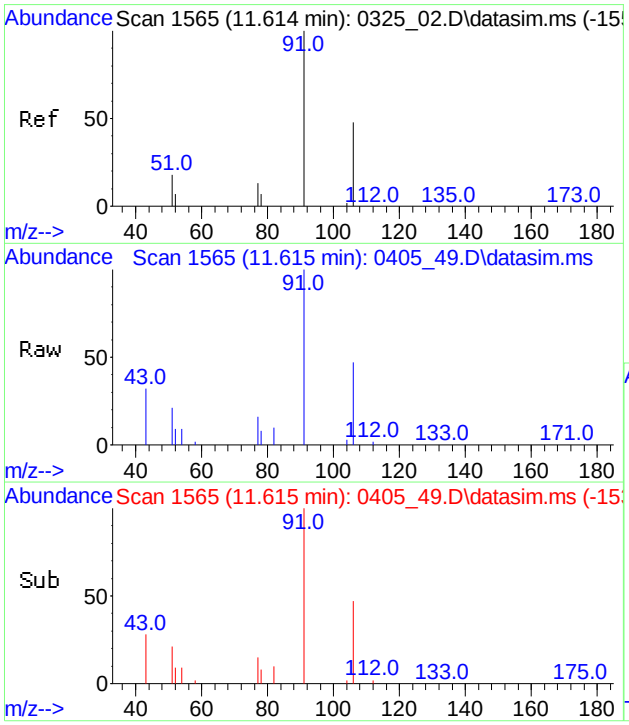




#109
m,p-Xylene(sim)
Conc: 8$ 1.450 ppbv
RT: 11.118 min Scan# 1493
Delta R.T. 0.014 min
Lab File: 0405_49.D
Acq: 6 Apr 2021 8:43 pm

Tgt Ion: 91 Resp: 137022

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 49.0 | 44.8 | 54.8 |
| 77 | 13.5 | 10.5 | 15.7 |

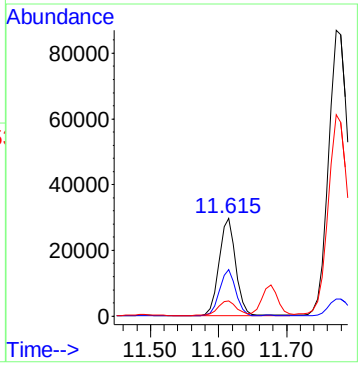





#110
o-Xylene(sim)
Conc: 8$ 0.510 ppb
RT: 11.615 min Scan# 1565
Delta R.T. 0.015 min
Lab File: 0405_49.D
Acq: 6 Apr 2021 8:43 pm

Tgt Ion: 91 Resp: 50444

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 46.3 | 37.6 | 56.4 |
| 77 | 17.0 | 9.8 | 14.8# |



1

AIR ANALYSIS DATA SHEET

CLIENT ID: SS-1

Client: GC-ENV Lab: Phoenix Env. Labs

SDG No.: GCH92051 Lab Sample ID: CH92060

Canister: 18111 Lab File ID: 0405_50.D

Instrument: CHEM24 Column: RTX-VMS Date Received: 04/05/21

Purge Volume 200 (cc) Date Analyzed: 04/06/21

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 | 5.38 | S | 0.531 | 0.531 | r |
| 67-64-1 | Acetone | 5.11 | S | 0.421 | 0.421 | r |
| 67-63-0 | Isopropylalcohol | 3.88 | 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 | 1.83 | | 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 | 0.358 | | 0.339 | 0.339 | r |
| 110-54-3 | Hexane | 0.333 | S | 0.284 | 0.284 | r |
| 141-78-6 | Ethyl acetate | 0.278 | U | 0.278 | 0.278 | r |
| 109-99-9 | Tetrahydrofuran | 0.339 | U | 0.339 | 0.339 | r |
| 71-55-6 | 1,1,1-Trichloroethane | 3.15 | | 0.183 | 0.183 | r |
| 71-43-2 | Benzene | 0.336 | | 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 | 1.34 | | 0.266 | 0.266 | r |
| 591-78-6 | 2-Hexanone(MBK) | 0.244 | U | 0.244 | 0.244 | r |
| 127-18-4 | Tetrachloroethene | 4.72 | | 0.037 | 0.037 | 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 | 0.336 | | 0.235 | 0.235 | 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: SS-1

Client: GC-ENV  Lab: Phoenix Env. Labs

SDG No.: GCH92051  Lab Sample ID: CH92060

Canister: 18111  Lab File ID: 0405_50.D

Instrument: CHEM24  Column: RTX-VMS  Date Received: 04/05/21

Purge Volume 200 (cc)  Date Analyzed: 04/06/21

Matrix: AIR  Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

| CAS NO. | COMPOUND | CONC. | Q | MDL | PQL | R |
|---|---|---|---|---|---|---|
| 56-23-5 | Carbon Tetrachloride(sim) | 0.043 | | 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 |
| 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) | 0.067 | | 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 |
| 630-20-6 | 1,1,1,2-Tetrachloroethane(sim) | 0.146 | U | 0.146 | 0.146 | r |
| 179601-23-1 | m,p-Xylene(sim) | 0.383 | | 0.230 | 0.230 | r |
| 95-47-6 | o-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 |
| | | | | | | |
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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:\AIR2021\CHEM24\04APR\05\
Data File : 0405_50.D
Acq On : 6 Apr 2021 9:22 pm
Operator : Keith
Client ID : SS-1
Lab ID : CH92060
ALS Vial : 48 Sample Multiplier: 1

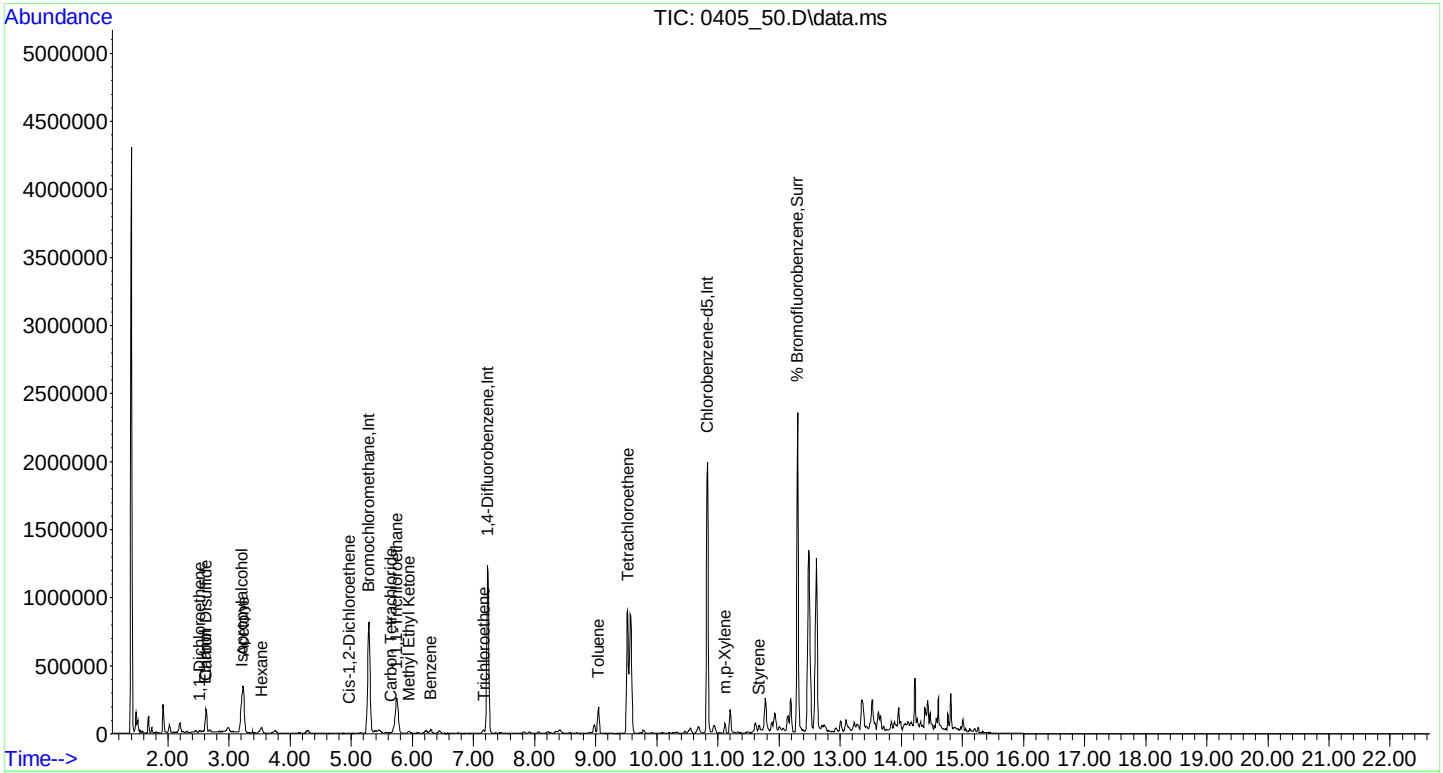
Quant Time: Apr 07 08:24:35 2021
Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 26 09:02:26 2021
Response via : Initial Calibration

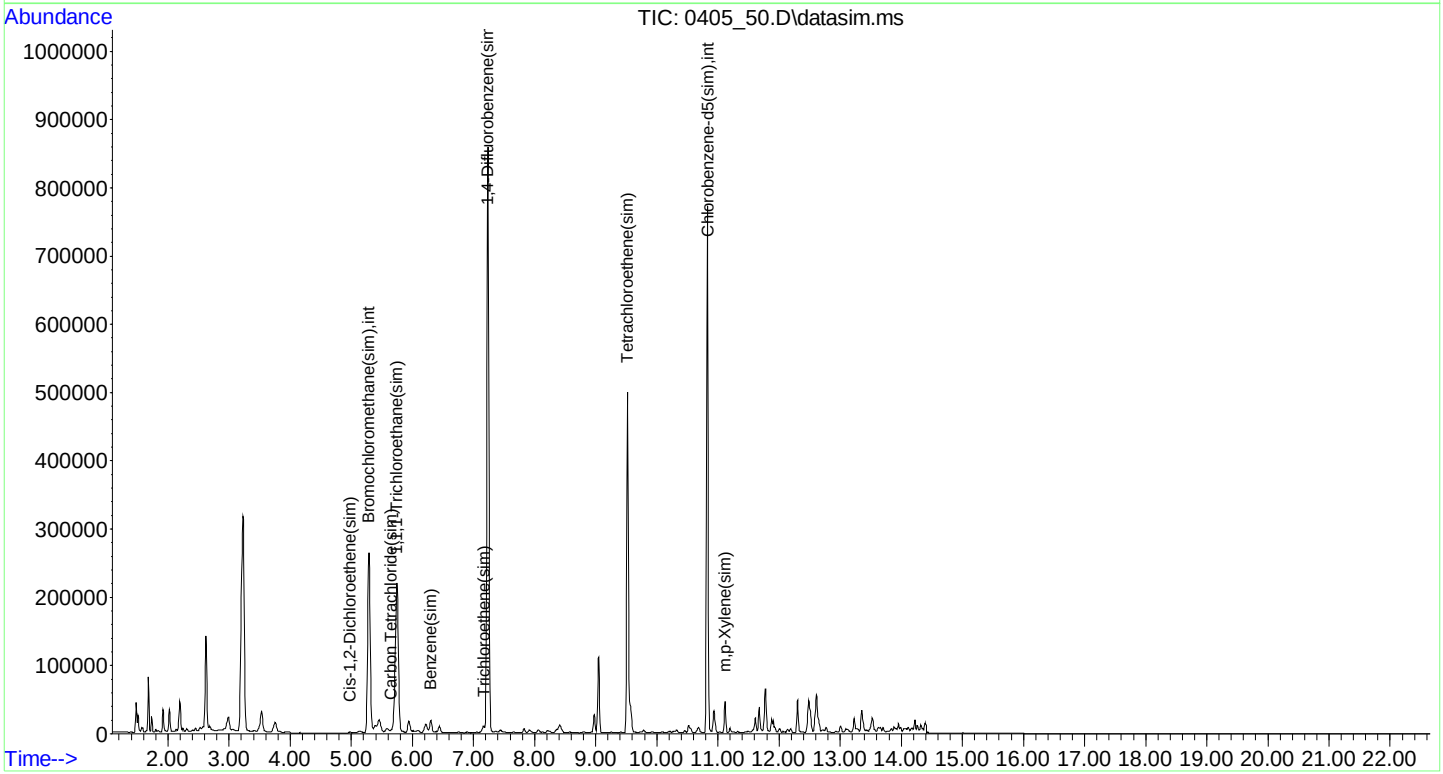
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Bromochloromethane | 5.286 | 130 | 350239 | 10.000 | ng | | 0.02 |
| 36) 1,4-Difluorobenzene | 7.231 | 114 | 1111671 | 10.000 | ng | | 0.00 |
| 53) Chlorobenzene-d5 | 10.829 | 82 | 511860 | 10.000 | ng | | 0.01 |
| 80) Bromochloromethane(sim) | 5.289 | 130 | 360727 | 10.000 | ng | # | 0.02 |
| 95) 1,4-Difluorobenzene(sim) | 7.231 | 114 | 1111671 | 10.000 | ng | | 0.00 |
| 105) Chlorobenzene-d5(sim) | 10.829 | 82 | 511860 | 10.000 | ng | | 0.01 |
| System Monitoring Compounds | | | | | | | |
| 62) % Bromofluorobenzene | 12.303 | 95 | 689515 | 9.712 | ppbv | | 0.00 |
| Spiked Amount 10.000 | Range 70 - 130 | | Recovery = | 97.10% | | | |
| Target Compounds | | | | | | | Qvalue |
| 10) Ethanol | 2.615 | 45 | 83762 | 5.383 | ppbv | | 99 |
| 12) Acetone | 3.231 | 43 | 459737 | 5.106 | ppbv | | 99 |
| 14) Isopropylalcohol | 3.210 | 45 | 309626 | 3.878 | ppbv# | | 59 |
| 16) 1,1-Dichloroethene | 2.526 | 61 | 2988 | 0.055 | ppbv# | | 43 |
| 20) Carbon Disulfide | 2.629 | 76 | 126350 | 1.828 | ppbv | | 100 |
| 25) Methyl Ethyl Ketone | 5.942 | 43 | 33203 | 0.358 | ppbv | | 98 |
| 26) Cis-1,2-Dichloroethene | 4.972 | 61 | 2746 | 0.054 | ppbv# | | 89 |
| 27) Hexane | 3.532 | 57 | 20825 | 0.333 | ppbv# | | 87 |
| 32) 1,1,1-Trichloroethane | 5.748 | 97 | 229600 | 3.147 | ppbv | | 93 |
| 33) Benzene | 6.300 | 78 | 24433 | 0.336 | ppbv | | 96 |
| 34) Carbon Tetrachloride | 5.654 | 117 | 3519 | 0.042 | ppbv | | 93 |
| 39) Trichloroethene | 7.170 | 130 | 3109 | 0.070 | ppbv | | 96 |
| 48) Toluene | 9.046 | 91 | 121713 | 1.344 | ppbv | | 99 |
| 52) Tetrachloroethene | 9.523 | 166 | 256016 | 4.722 | ppbv | | 98 |
| 57) m,p-Xylene | 11.117 | 91 | 36508 | 0.378 | ppbv | | 99 |
| 59) Styrene | 11.673 | 104 | 23266 | 0.336 | ppbv | | 97 |
| 85] 1,1,1-Trichloroethane(... | 5.748 | 97 | 229600 | 3.019 | ppbv# | | 93 |
| 86] Benzene(sim) | 6.303 | 78 | 26640 | 0.317 | ppbv | | 99 |
| 87] Carbon Tetrachloride(sim) | 5.657 | 117 | 3777m | 0.043 | ppbv | | 96 |
| 92] Cis-1,2-Dichloroethene... | 4.980 | 61 | 3019 | 0.055 | ppbv | | 97 |
| 98] Trichloroethene(sim) | 7.173 | 130 | 3327 | 0.067 | ppbv | | 98 |
| 104] Tetrachloroethene(sim) | 9.518 | 166 | 267771 | 4.606 | ppbv | | 98 |
| 109] m,p-Xylene(sim) | 11.117 | 91 | 36508 | 0.383 | ppbv | | 99 |

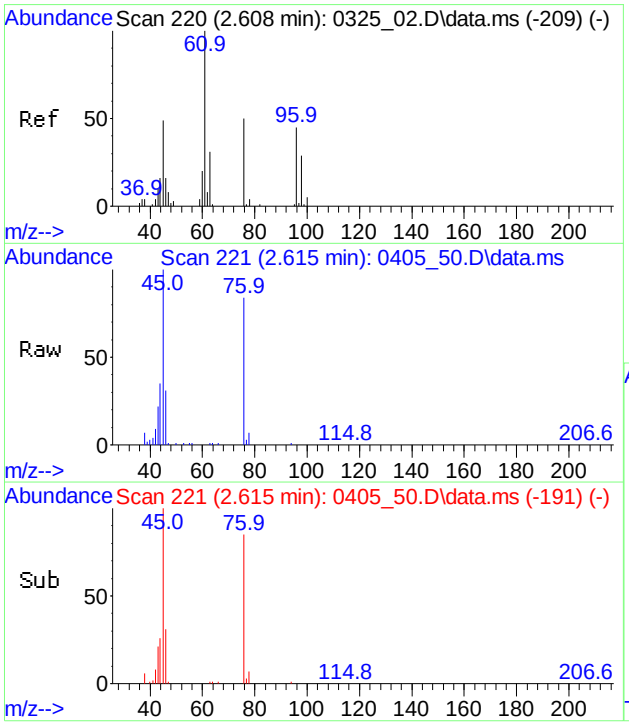
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2021\CHEM24\04APR\05\
Data File : 0405_50.D
Acq On : 6 Apr 2021 9:22 pm
Operator : Keith
Client ID : SS-1
Lab ID : CH92060
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Apr 07 08:24:35 2021
Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 26 09:02:26 2021
Response via : Initial Calibration



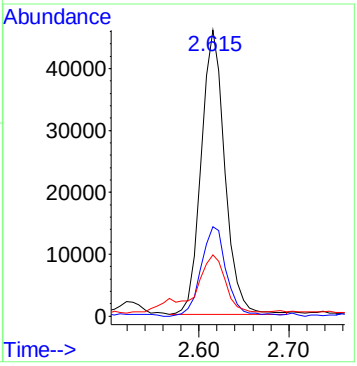



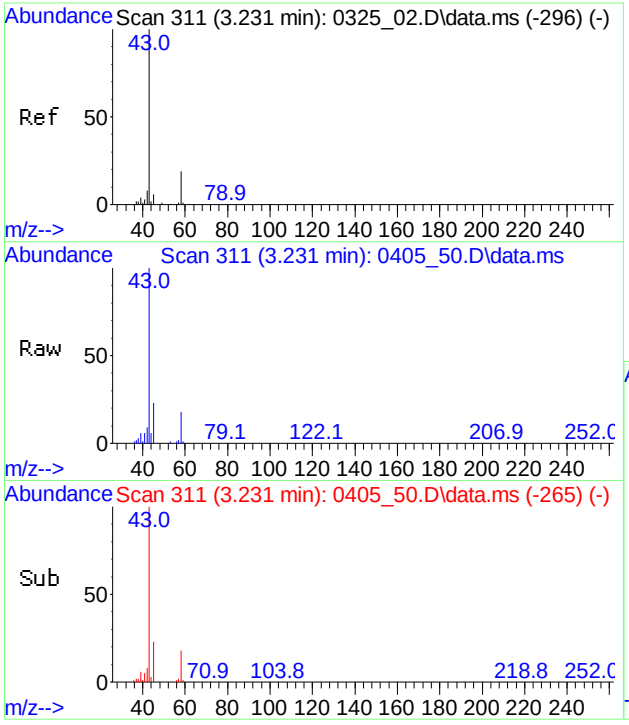



#10
Ethanol
Conc: 8$ 5.383 ppbv
RT: 2.615 min Scan# 221
Delta R.T. 0.020 min
Lab File: 0405_50.D
Acq: 6 Apr 2021 9:22 pm

Tgt Ion: 45 Resp: 83762

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 34.0 | 27.8 | 41.6 |
| 43 | 21.7 | 17.3 | 25.9 |

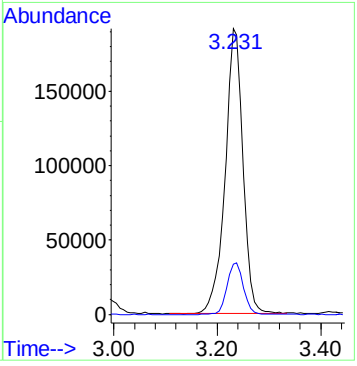


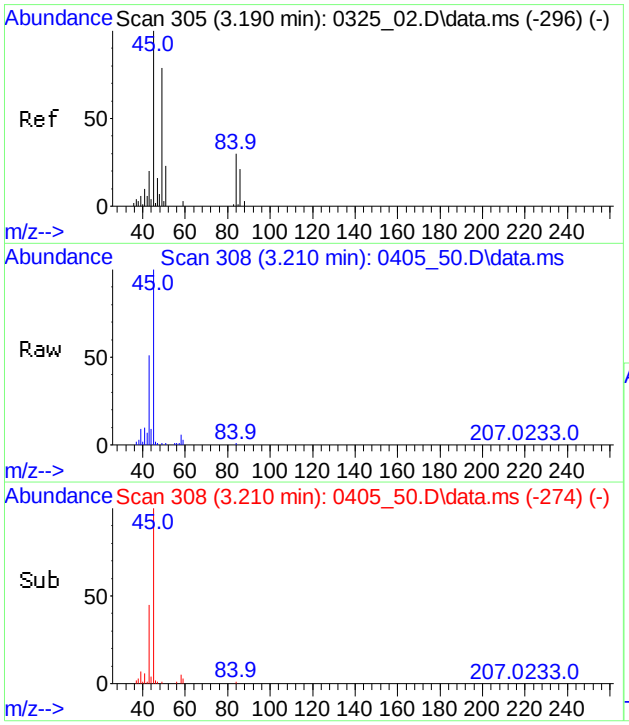




#12
Acetone
Conc: 8$ 5.106 ppbv
RT: 3.231 min Scan# 311
Delta R.T. 0.014 min
Lab File: 0405_50.D
Acq: 6 Apr 2021 9:22 pm

Tgt Ion: 43 Resp: 459737

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 16.8 | 13.2 | 19.8 |

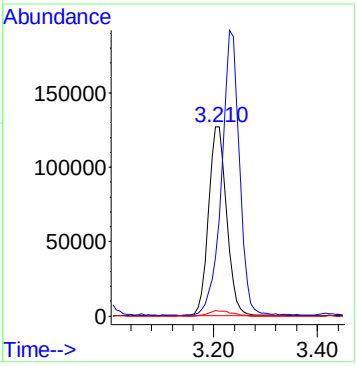


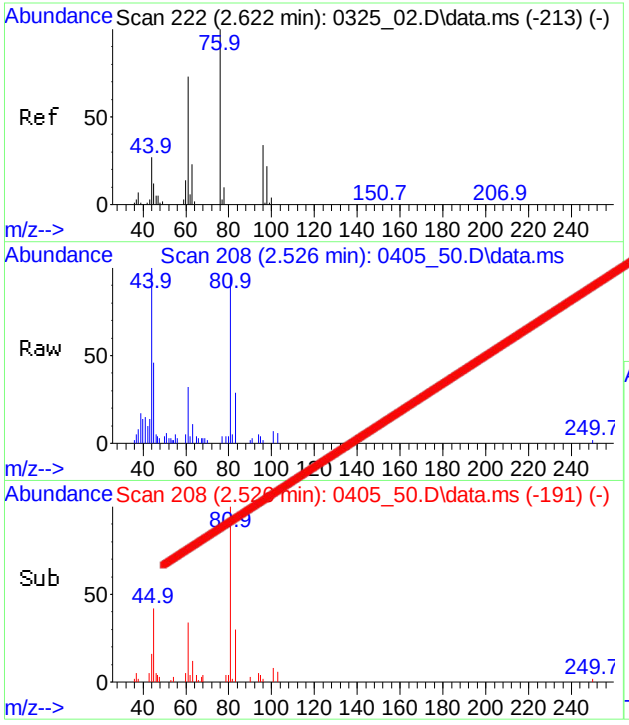



#14
Isopropylalcohol
Conc: 8$ 3.878 ppbv
RT: 3.210 min Scan# 308
Delta R.T. 0.034 min
Lab File: 0405_50.D
Acq: 6 Apr 2021 9:22 pm

Tgt Ion: 45 Resp: 309626

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 148.5 | 84.1 | 126.1# |
| 59 | 3.6 | 2.6 | 4.0 |

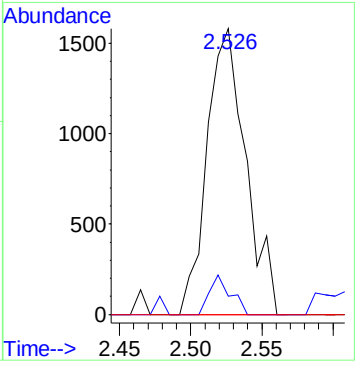


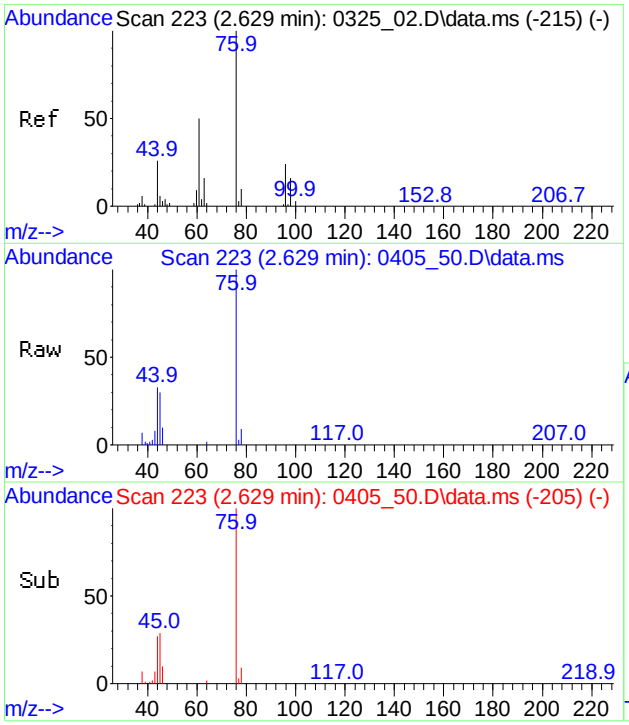




#16
1,1-Dichloroethene
Conc: 8$ Below Cal
RT: 2.526 min Scan# 208
Delta R.T. -0.075 min
Lab File: 0405_50.D
Acq: 6 Apr 2021 9:22 pm

Tgt Ion: 61 Resp: 2988

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 61 | 100 | | |
| 96 | 7.5 | 37.2 | 55.8# |
| 98 | 0.0 | 24.0 | 36.0# |

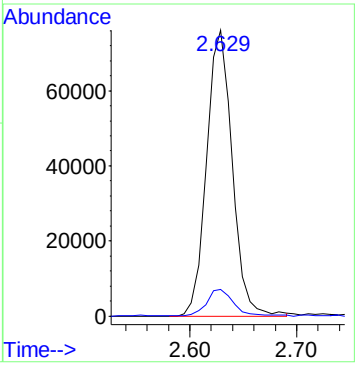


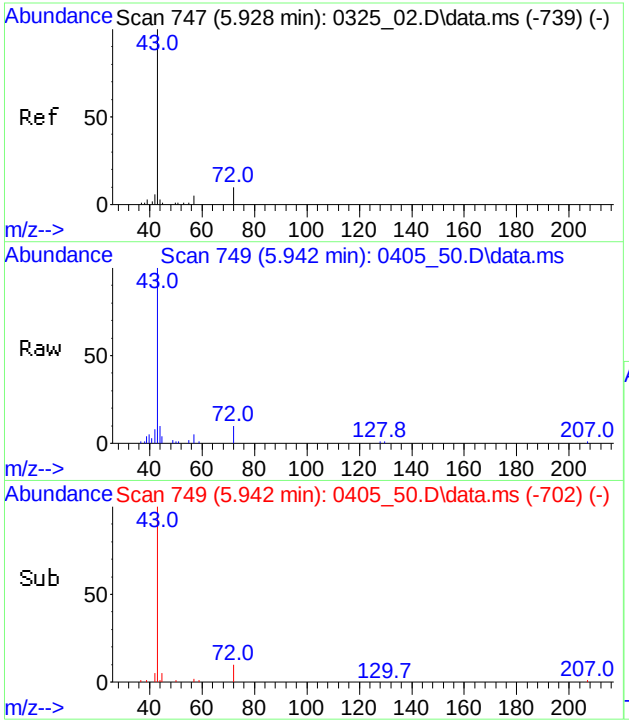



#20
Carbon Disulfide
Conc: 8$ 1.828 ppbv
RT: 2.629 min Scan# 223
Delta R.T. 0.021 min
Lab File: 0405_50.D
Acq: 6 Apr 2021 9:22 pm

Tgt Ion: 76 Resp: 126350

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 9.4 | 7.7 | 11.5 |

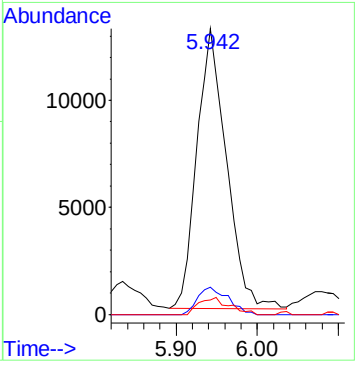


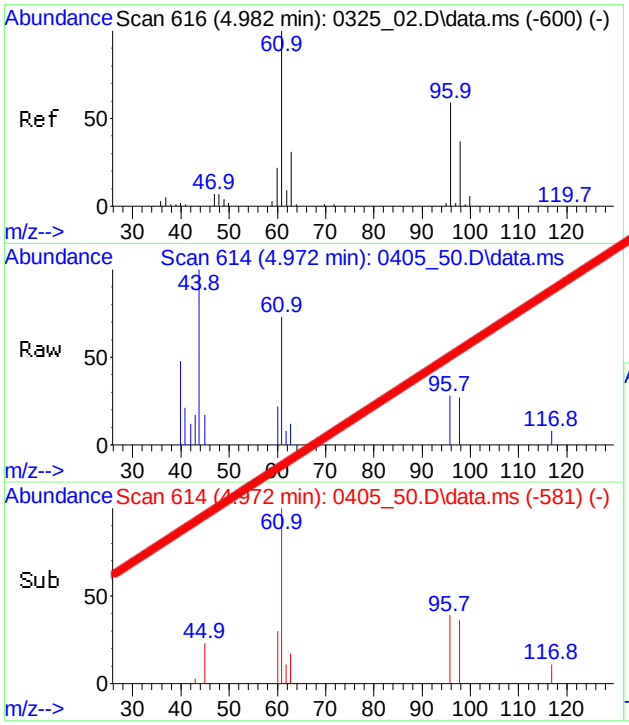




#25
Methyl Ethyl Ketone
Conc: 8$ 0.358 ppbv
RT: 5.942 min Scan# 749
Delta R.T. 0.036 min
Lab File: 0405_50.D
Acq: 6 Apr 2021 9:22 pm

Tgt Ion: 43 Resp: 33203

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 10.0 | 8.5 | 12.7 |
| 57 | 6.2 | 4.2 | 6.4 |

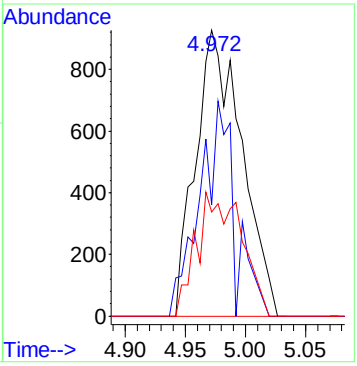


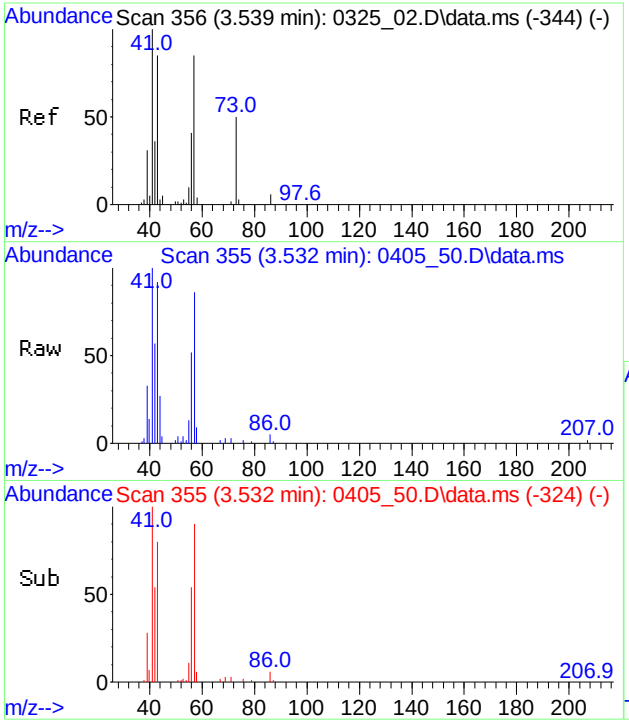



#26
Cis-1,2-Dichloroethene
Conc: 8$  Below Cal
RT:  4.972 min  Scan# 614
Delta R.T.  0.015 min
Lab File:  0405_50.D
Acq:  6 Apr 2021  9:22 pm

Tgt Ion: 61 Resp:  2746

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 61 | 100 | | |
| 96 | 58.0 | 48.0 | 72.0 |
| 98 | 22.6 | 29.7 | 44.5# |

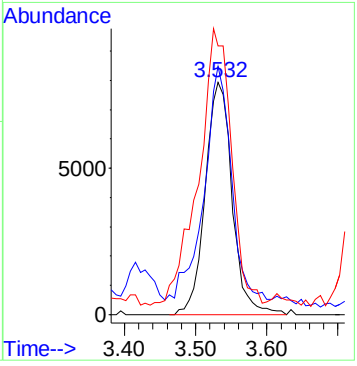


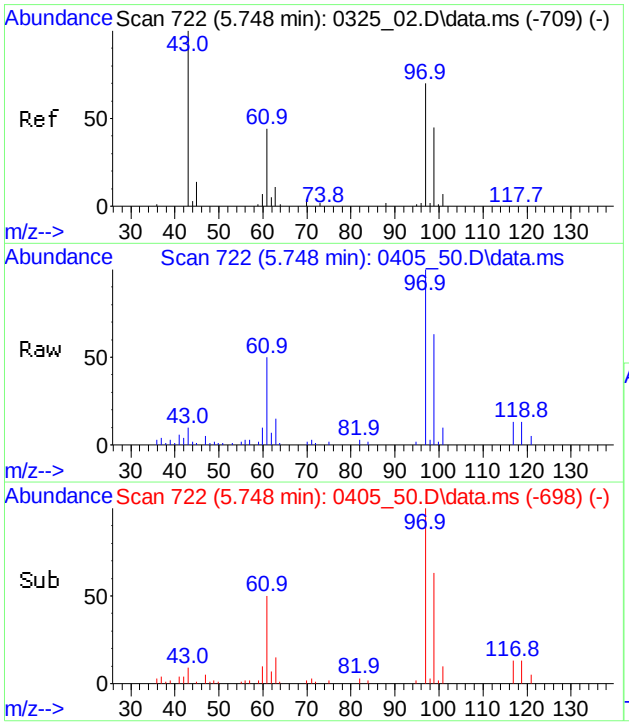




#27
Hexane
Conc: 8$  0.333 ppbv
RT:  3.532 min  Scan# 355
Delta R.T.  0.014 min
Lab File:  0405_50.D
Acq:  6 Apr 2021  9:22 pm

Tgt Ion: 57 Resp:  20825

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 43 | 104.7 | 83.3 | 124.9 |
| 41 | 146.1 | 95.6 | 143.4# |

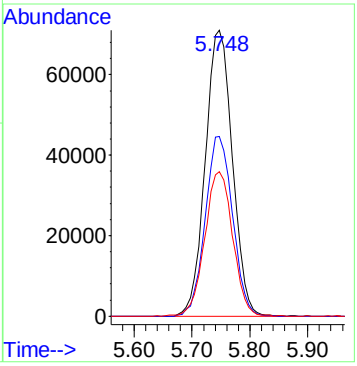


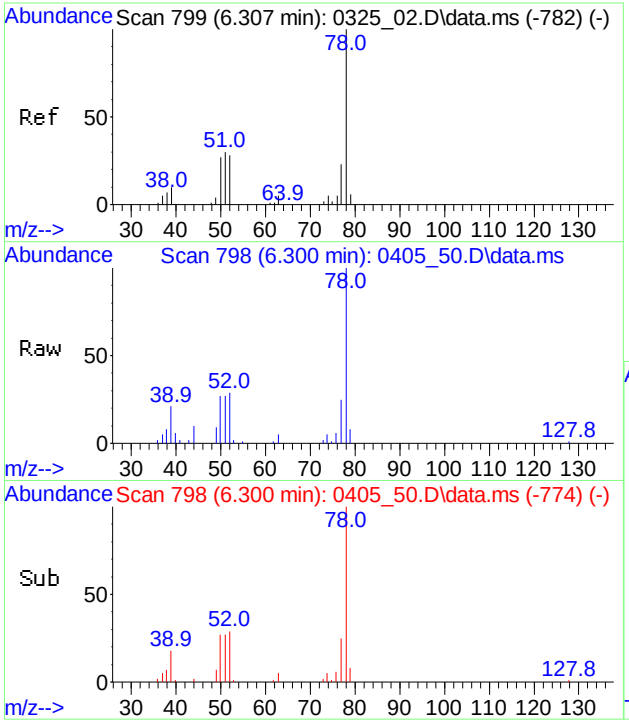



#32
1,1,1-Trichloroethane
Conc: 8$ 3.147 ppbv
RT: 5.748 min Scan# 722
Delta R.T. 0.022 min
Lab File: 0405_50.D
Acq: 6 Apr 2021 9:22 pm

Tgt Ion: 97 Resp: 229600

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 63.3 | 51.3 | 76.9 |
| 61 | 52.1 | 50.1 | 75.1 |

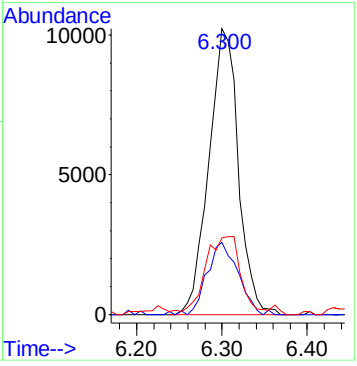


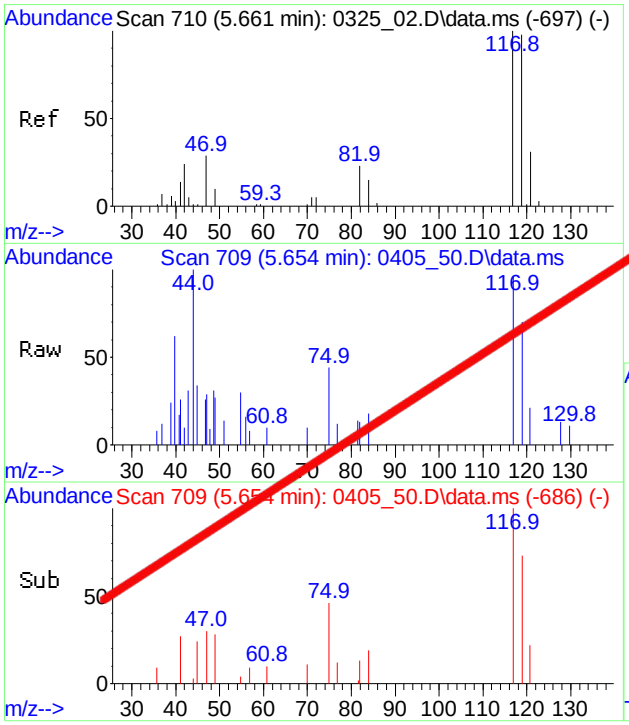




#33
Benzene
Conc: 8$ 0.336 ppbv
RT: 6.300 min Scan# 798
Delta R.T. 0.014 min
Lab File: 0405_50.D
Acq: 6 Apr 2021 9:22 pm

Tgt Ion: 78 Resp: 24433

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 26.5 | 18.2 | 27.2 |
| 51 | 30.4 | 24.2 | 36.2 |

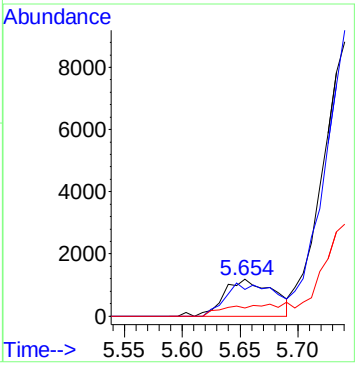


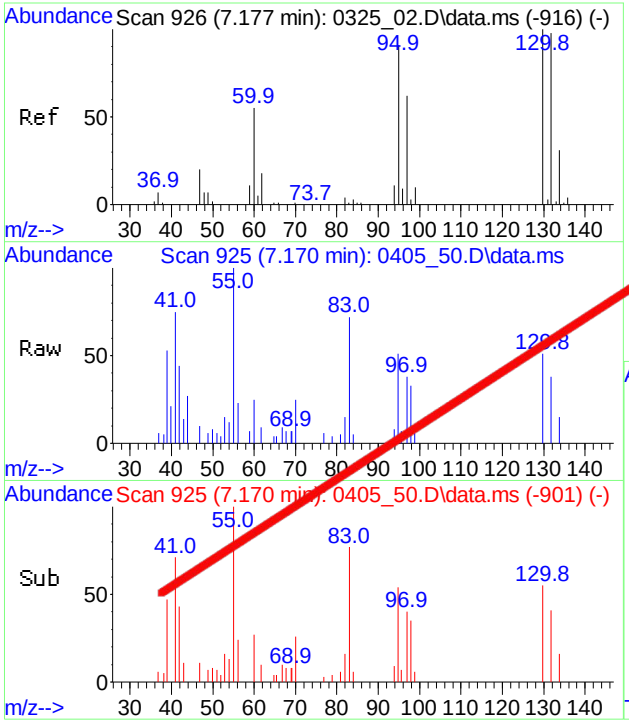



#34
Carbon Tetrachloride
Conc: 8$  Below Cal
RT:  5.654 min  Scan# 709
Delta R.T.  0.015 min
Lab File:  0405_50.D
Acq:  6 Apr 2021  9:22 pm

Tgt Ion:117 Resp:  3519

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 89.3 | 78.0 | 118.0 |
| 121 | 31.4 | 12.1 | 52.1 |

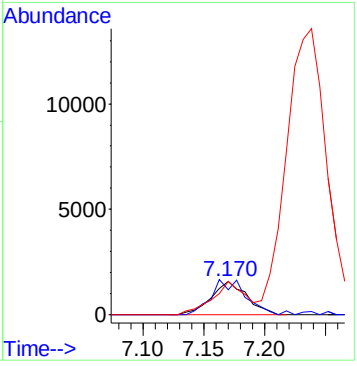


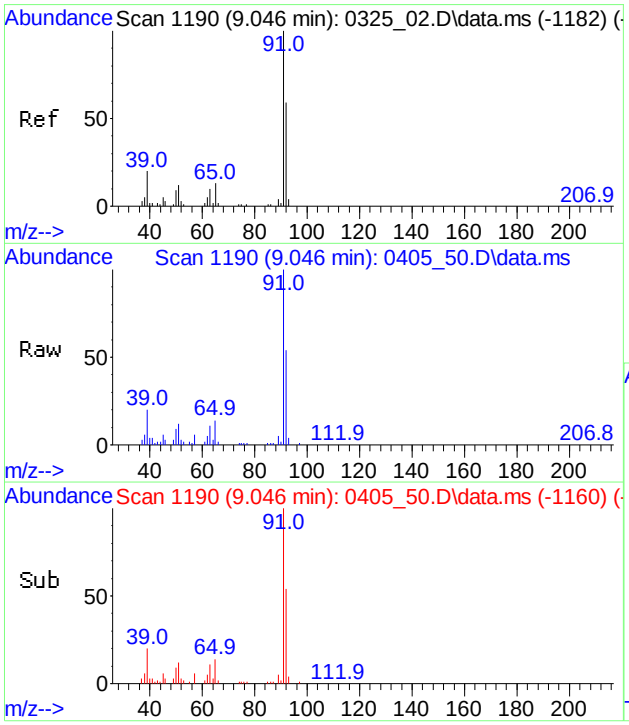




#39
Trichloroethene
Conc: 8$  Below Cal
RT:  7.170 min  Scan# 925
Delta R.T.  0.014 min
Lab File:  0405_50.D
Acq:  6 Apr 2021  9:22 pm

Tgt Ion:130 Resp:  3109

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 132 | 102.1 | 76.6 | 115.0 |
| 95 | 91.2 | 72.3 | 108.5 |

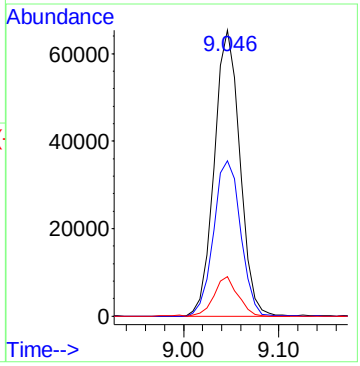


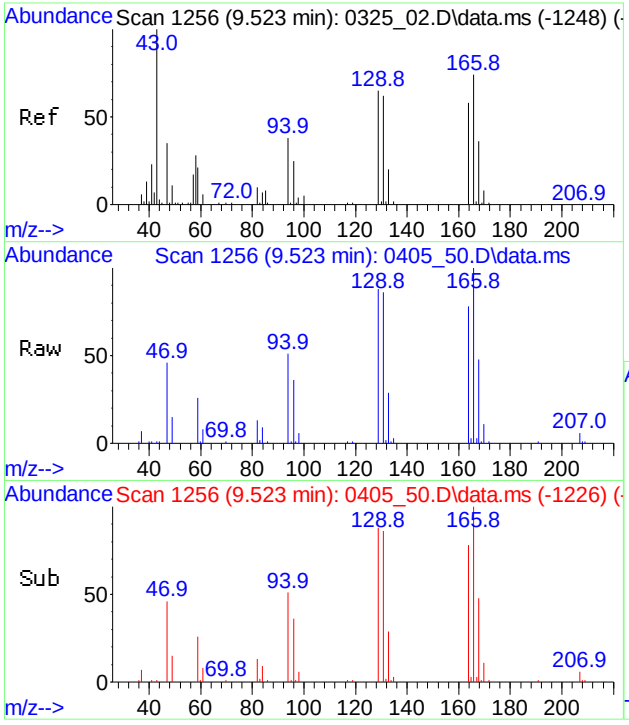



#48
Toluene
Conc: 8$ 1.344 ppbv
RT: 9.046 min Scan# 1190
Delta R.T. 0.014 min
Lab File: 0405_50.D
Acq: 6 Apr 2021 9:22 pm

Tgt Ion: 91 Resp: 121713

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 57.4 | 46.3 | 69.5 |
| 65 | 12.9 | 10.1 | 15.1 |

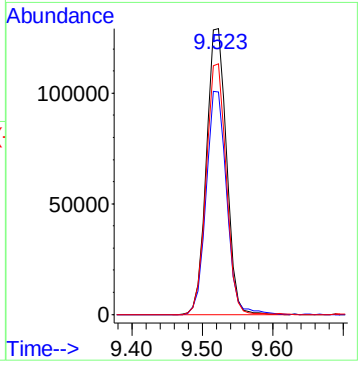


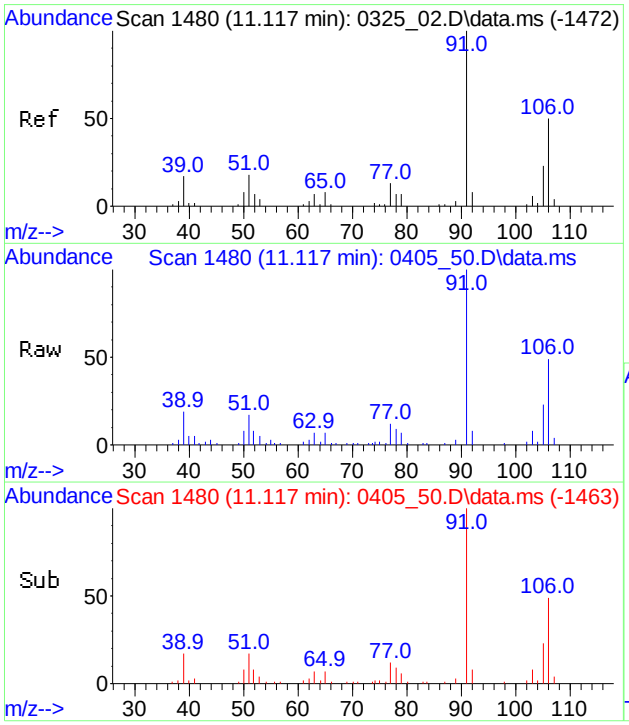




#52
Tetrachloroethene
Conc: 8$ 4.722 ppbv
RT: 9.523 min Scan# 1256
Delta R.T. 0.015 min
Lab File: 0405_50.D
Acq: 6 Apr 2021 9:22 pm

Tgt Ion:166 Resp: 256016

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 164 | 79.6 | 62.2 | 93.4 |
| 129 | 87.4 | 68.3 | 102.5 |

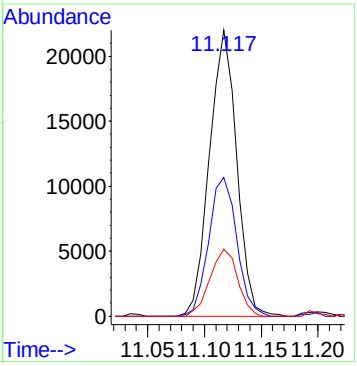


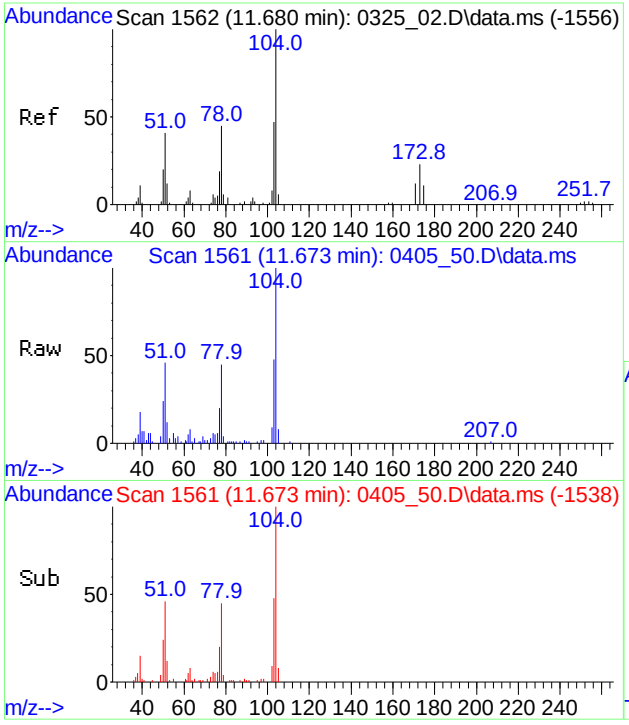



#57
m,p-Xylene
Conc: 8$ 0.378 ppbv
RT: 11.117 min Scan# 1480
Delta R.T. 0.013 min
Lab File: 0405_50.D
Acq: 6 Apr 2021 9:22 pm

Tgt Ion: 91 Resp: 36508

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 50.1 | 39.8 | 59.8 |
| 105 | 23.8 | 18.2 | 27.4 |

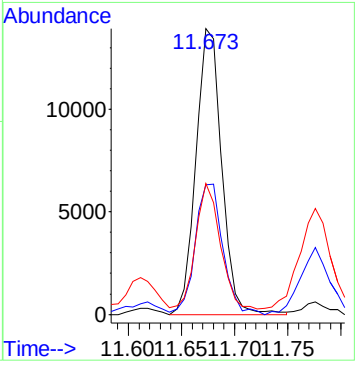


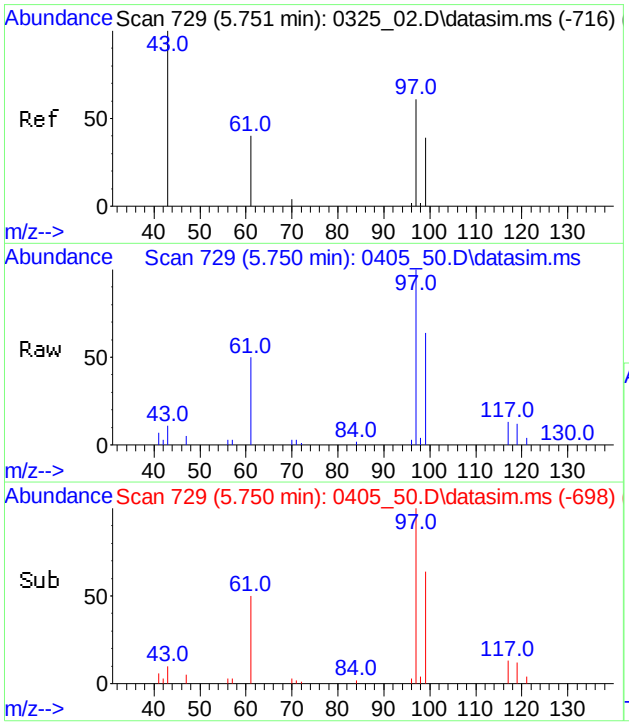




#59
Styrene
Conc: 8$ 0.336 ppbv
RT: 11.673 min Scan# 1561
Delta R.T. 0.007 min
Lab File: 0405_50.D
Acq: 6 Apr 2021 9:22 pm

Tgt Ion:104 Resp: 23266

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 48.9 | 36.2 | 54.4 |
| 51 | 41.8 | 33.0 | 49.6 |

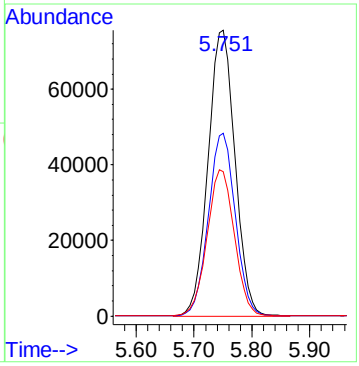


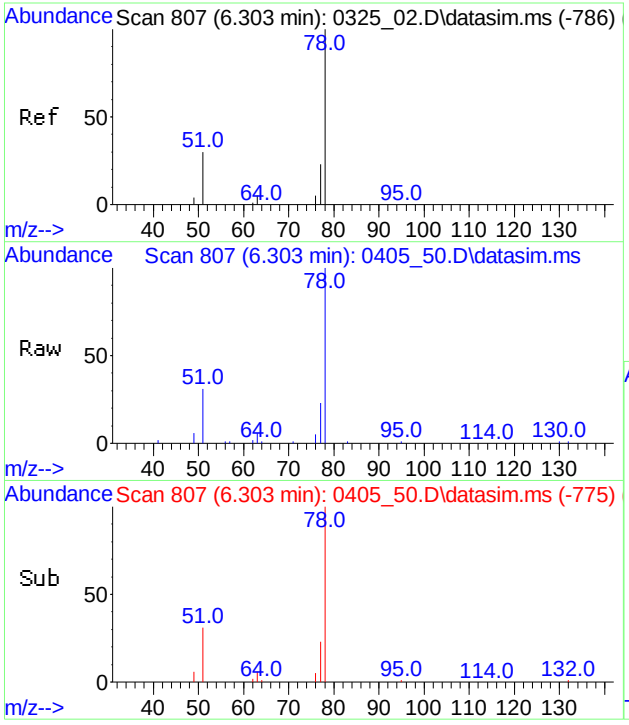



#85
1,1,1-Trichloroethane(sim)
Conc: 8$ 3.019 ppbv
RT: 5.748 min Scan# 729
Delta R.T. 0.022 min
Lab File: 0405_50.D
Acq: 6 Apr 2021 9:22 pm

Tgt Ion: 97 Resp: 229600

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 63.3 | 64.0 | 64.0# |
| 61 | 52.1 | 50.0 | 75.0 |

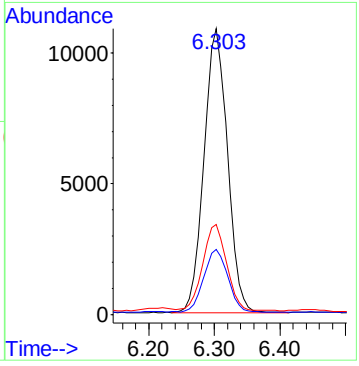


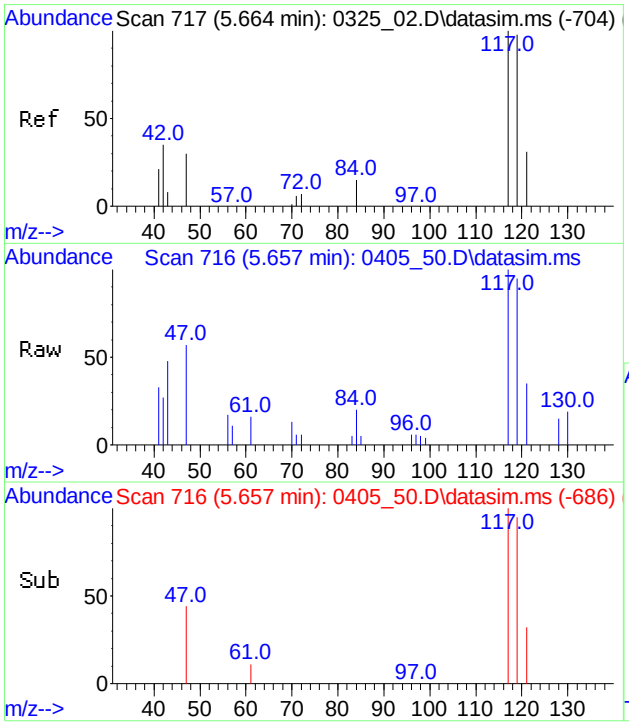




#86
Benzene(sim)
Conc: 8$ 0.317 ppbv
RT: 6.303 min Scan# 807
Delta R.T. 0.021 min
Lab File: 0405_50.D
Acq: 6 Apr 2021 9:22 pm

Tgt Ion: 78 Resp: 26640

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 22.5 | 18.0 | 27.0 |
| 51 | 30.5 | 23.9 | 35.9 |

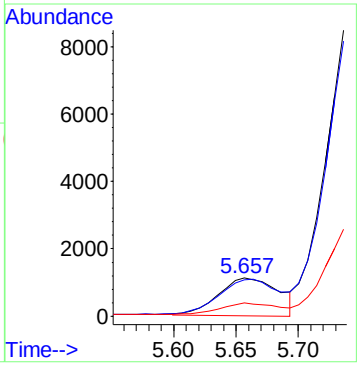


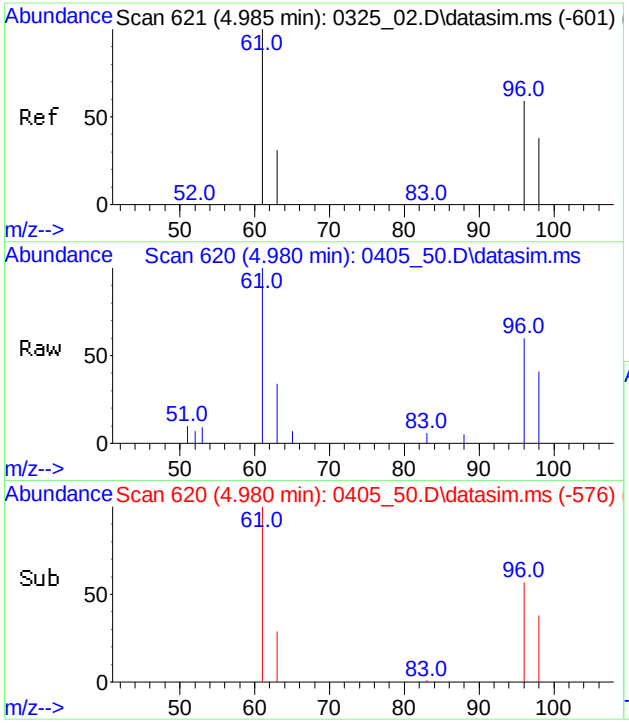



#87
Carbon Tetrachloride(sim)
Conc: 8$ 0.043 ppbv
RT: 5.657 min Scan# 716
Delta R.T. 0.018 min
Lab File: 0405_50.D
Acq: 6 Apr 2021 9:22 pm

Tgt Ion:117 Resp: 3777

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 767.3 | 78.4 | 117.6# |
| 121 | 247.4 | 25.7 | 38.5# |

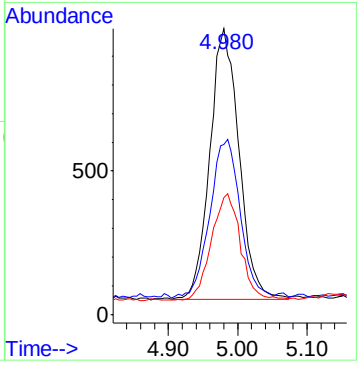


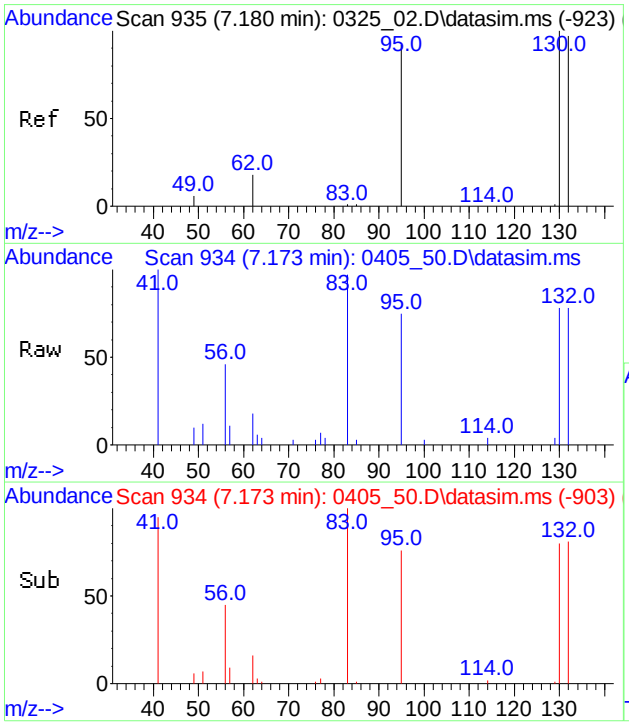




#92
Cis-1,2-Dichloroethene(sim)
Conc: 8$ 0.055 ppbv
RT: 4.980 min Scan# 620
Delta R.T. 0.020 min
Lab File: 0405_50.D
Acq: 6 Apr 2021 9:22 pm

Tgt Ion: 61 Resp: 3019

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 61 | 100 | | |
| 96 | 59.1 | 48.1 | 72.1 |
| 98 | 39.9 | 29.5 | 44.3 |

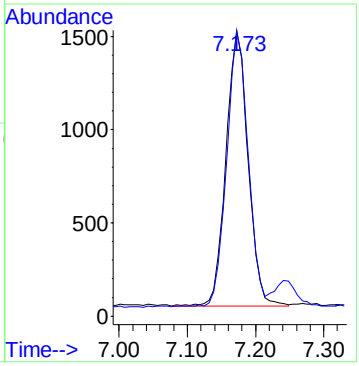


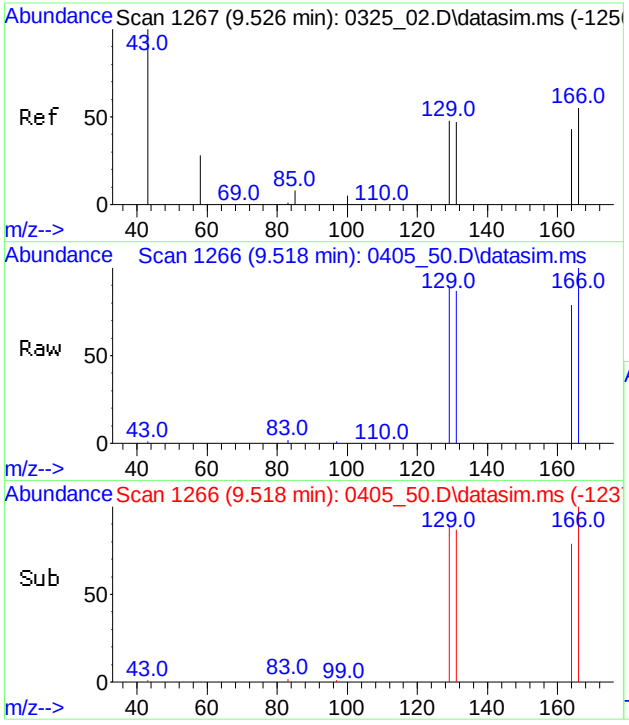



#98
Trichloroethene(sim)
Conc: 8$ 0.067 ppbv
RT: 7.173 min Scan# 934
Delta R.T. 0.014 min
Lab File: 0405_50.D
Acq: 6 Apr 2021 9:22 pm

Tgt Ion:130 Resp: 3327

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 132 | 97.9 | 77.1 | 115.7 |

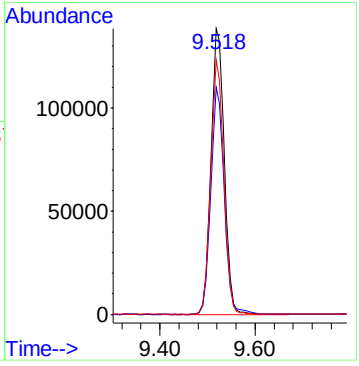


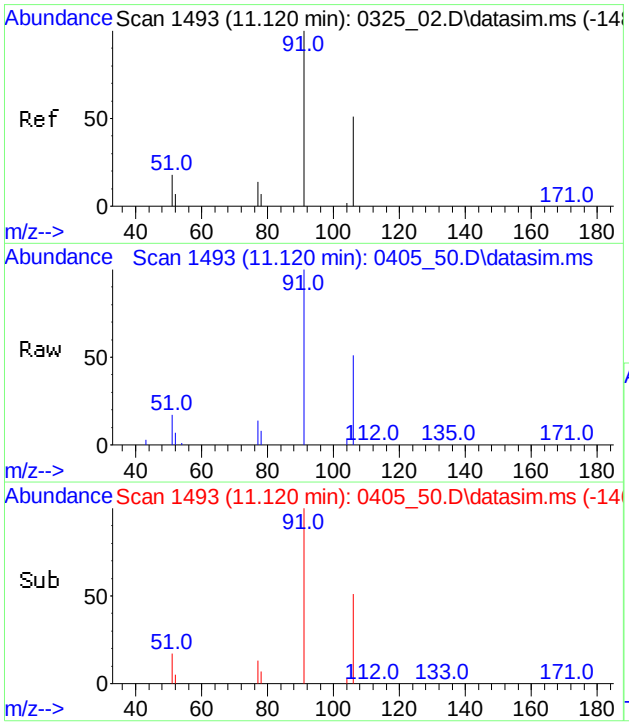




#104
Tetrachloroethene(sim)
Conc: 8$ 4.606 ppbv
RT: 9.518 min Scan# 1266
Delta R.T. 0.007 min
Lab File: 0405_50.D
Acq: 6 Apr 2021 9:22 pm

Tgt Ion:166 Resp: 267771

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 164 | 80.1 | 58.4 | 98.4 |
| 129 | 87.7 | 66.6 | 106.6 |

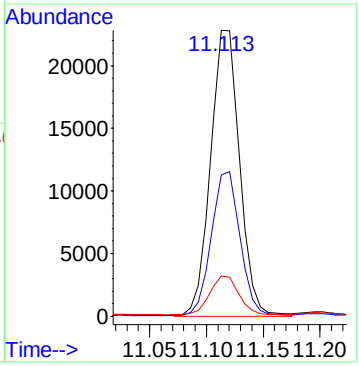





#109
m,p-Xylene(sim)
Conc: 8$ 0.383 ppbv
RT: 11.117 min Scan# 1493
Delta R.T. 0.013 min
Lab File: 0405_50.D
Acq: 6 Apr 2021 9:22 pm

Tgt Ion: 91 Resp: 36508

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 50.1 | 44.8 | 54.8 |
| 77 | 14.7 | 10.5 | 15.7 |



1

AIR ANALYSIS DATA SHEET

CLIENT ID: SS-8 (4')

Client: GC-ENV Lab: Phoenix Env. Labs

SDG No.: GCH92051 Lab Sample ID: CH92061

Canister: 19732 Lab File ID: 0405_51.D

Instrument: CHEM24 Column: RTX-VMS Date Received: 04/05/21

Purge Volume 200 (cc) Date Analyzed: 04/06/21

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 | 0.317 | | 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 | 9.06 | S | 0.531 | 0.531 | r |
| 67-64-1 | Acetone | 16.6 | S | 0.421 | 0.421 | r |
| 67-63-0 | Isopropylalcohol | 1.53 | 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 | 0.825 | | 0.339 | 0.339 | r |
| 110-54-3 | Hexane | 0.749 | 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 | 0.531 | | 0.313 | 0.313 | r |
| 110-82-7 | Cyclohexane | 0.865 | | 0.291 | 0.291 | r |
| 142-82-5 | Heptane | 0.905 | | 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 | 11.2 | | 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 | 2.05 | | 0.230 | 0.230 | r |
| 179601-23-1 | m,p-Xylene | 6.96 | | 0.230 | 0.230 | r |
| 100-42-5 | Styrene | 0.382 | | 0.235 | 0.235 | r |
| 95-47-6 | o-Xylene | 2.47 | | 0.230 | 0.230 | r |
| 98-82-8 | Isopropylbenzene | 0.204 | U | 0.204 | 0.204 | r |
| 622-96-8 | 4-Ethyltoluene | 0.888 | | 0.204 | 0.204 | r |
| 108-67-8 | 1,3,5-Trimethylbenzene | 0.269 | | 0.204 | 0.204 | r |
| 95-63-6 | 1,2,4-Trimethylbenzene | 0.766 | | 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) | 0.197 | | 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: SS-8 (4')

Client: GC-ENV Lab: Phoenix Env. Labs

SDG No.: GCH92051 Lab Sample ID: CH92061

Canister: 19732 Lab File ID: 0405_51.D

Instrument: CHEM24 Column: RTX-VMS Date Received: 04/05/21

Purge Volume 200 (cc) Date Analyzed: 04/06/21

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) | 0.094 | | 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) | 0.221 | 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) | 0.106 | | 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 |
| 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 |
| | | | | | | |
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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:\AIR2021\CHEM24\04APR\05\
Data File : 0405_51.D
Acq On : 6 Apr 2021 9:57 pm
Operator : Keith
Client ID : SS-8 (4')
Lab ID : CH92061
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Apr 07 08:25:27 2021
Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 26 09:02:26 2021
Response via : Initial Calibration

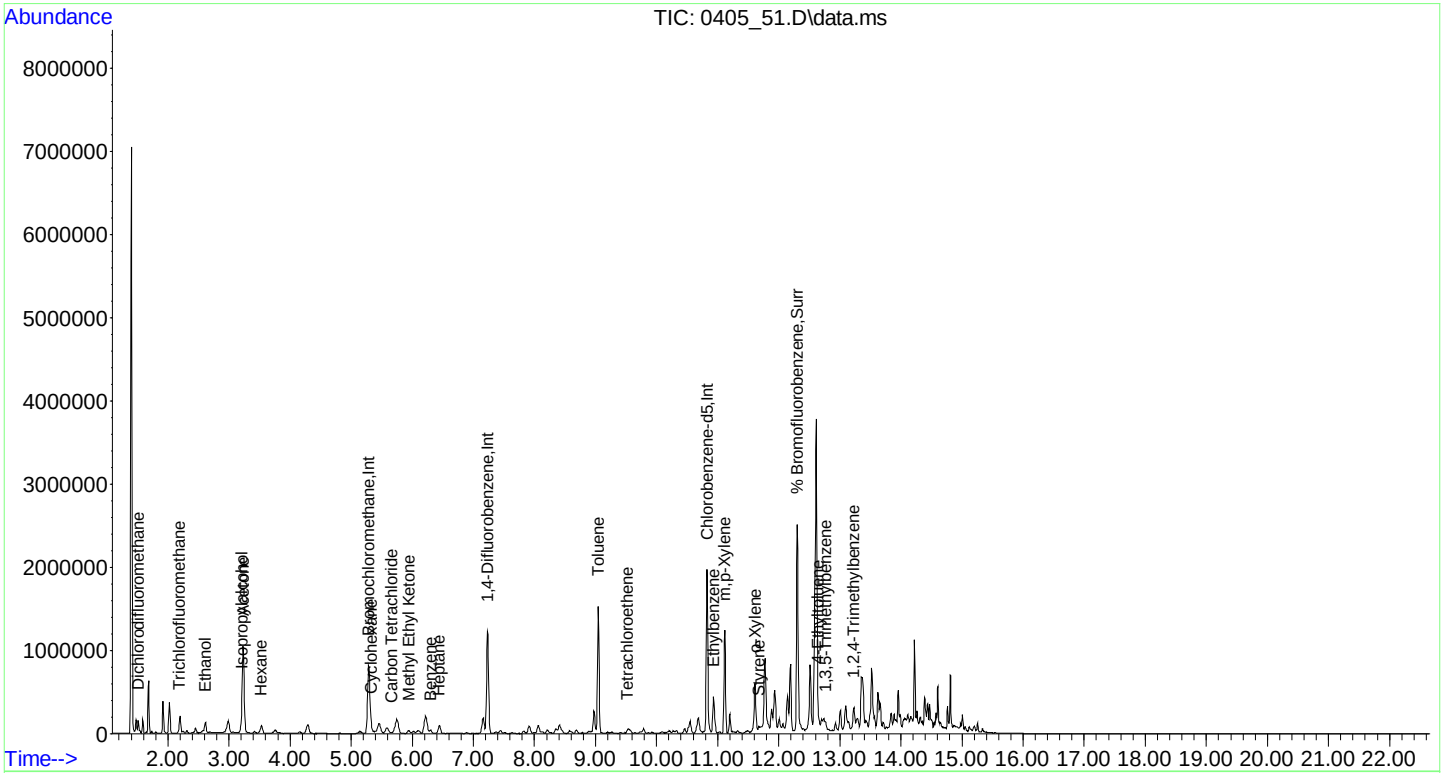
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Bromochloromethane | 5.286 | 130 | 341627 | 10.000 | ng | | 0.02 |
| 36) 1,4-Difluorobenzene | 7.231 | 114 | 1110148 | 10.000 | ng | | 0.00 |
| 53) Chlorobenzene-d5 | 10.829 | 82 | 507037 | 10.000 | ng | | 0.01 |
| 80) Bromochloromethane(sim) | 5.289 | 130 | 354435 | 10.000 | ng | # | 0.02 |
| 95) 1,4-Difluorobenzene(sim) | 7.231 | 114 | 1110148 | 10.000 | ng | | 0.00 |
| 105) Chlorobenzene-d5(sim) | 10.829 | 82 | 507037 | 10.000 | ng | | 0.01 |
| System Monitoring Compounds | | | | | | | |
| 62) % Bromofluorobenzene | 12.303 | 95 | 701853 | 9.980 | ppbv | | 0.00 |
| Spiked Amount 10.000 | Range 70 - 130 | | Recovery = | 99.80% | | | |
| Target Compounds | | | | | | | Qvalue |
| 3) Dichlorodifluoromethane | 1.512 | 85 | 19768 | 0.317 | ppbv | | 99 |
| 10) Ethanol | 2.615 | 45 | 137558 | 9.063 | ppbv | | 96 |
| 12) Acetone | 3.231 | 43 | 1455331 | 16.572 | ppbv | | 94 |
| 13) Trichlorofluoromethane | 2.191 | 101 | 19086 | 0.218 | ppbv# | | 98 |
| 14) Isopropylalcohol | 3.210 | 45 | 118971 | 1.528 | ppbv# | | 1 |
| 25) Methyl Ethyl Ketone | 5.942 | 43 | 74664 | 0.825 | ppbv# | | 99 |
| 27) Hexane | 3.532 | 57 | 45637 | 0.748 | ppbv | | 96 |
| 33) Benzene | 6.300 | 78 | 37625 | 0.531 | ppbv | | 97 |
| 34) Carbon Tetrachloride | 5.661 | 117 | 8401 | 0.103 | ppbv | | 90 |
| 35) Cyclohexane | 5.330 | 56 | 41379 | 0.865 | ppbv | | 94 |
| 43) Heptane | 6.444 | 43 | 71712 | 0.905 | ppbv | | 98 |
| 48) Toluene | 9.046 | 91 | 1012673 | 11.195 | ppbv | | 100 |
| 52) Tetrachloroethene | 9.523 | 166 | 5569 | 0.103 | ppbv | | 95 |
| 56) Ethylbenzene | 10.932 | 91 | 260074 | 2.044 | ppbv | | 100 |
| 57) m,p-Xylene | 11.117 | 91 | 665658 | 6.957 | ppbv | | 99 |
| 59) Styrene | 11.673 | 104 | 26188 | 0.382 | ppbv | | 97 |
| 61) o-Xylene | 11.611 | 91 | 236034 | 2.469 | ppbv | | 100 |
| 66) 4-Ethyltoluene | 12.640 | 105 | 125805 | 0.888 | ppbv# | | 93 |
| 67) 1,3,5-Trimethylbenzene | 12.770 | 105 | 31125 | 0.269 | ppbv# | | 92 |
| 68) 1,2,4-Trimethylbenzene | 13.230 | 105 | 84535 | 0.766 | ppbv | | 97 |
| 84] Trichlorofluoromethane... | 2.194 | 101 | 19848 | 0.197 | ppbv | | 100 |
| 86] Benzene(sim) | 6.303 | 78 | 40508 | 0.491 | ppbv | | 99 |
| 87] Carbon Tetrachloride(sim) | 5.661 | 117 | 8110 | 0.094 | ppbv# | | 88 |
| 104] Tetrachloroethene(sim) | 9.525 | 166 | 6151 | 0.106 | ppbv | | 97 |
| 108] Ethylbenzene(sim) | 10.935 | 91 | 276711 | 1.996 | ppb | | 100 |
| 109] m,p-Xylene(sim) | 11.117 | 91 | 665950 | 7.053 | ppbv | | 99 |
| 110] o-Xylene(sim) | 11.614 | 91 | 253086 | 2.562 | ppb | | 99 |

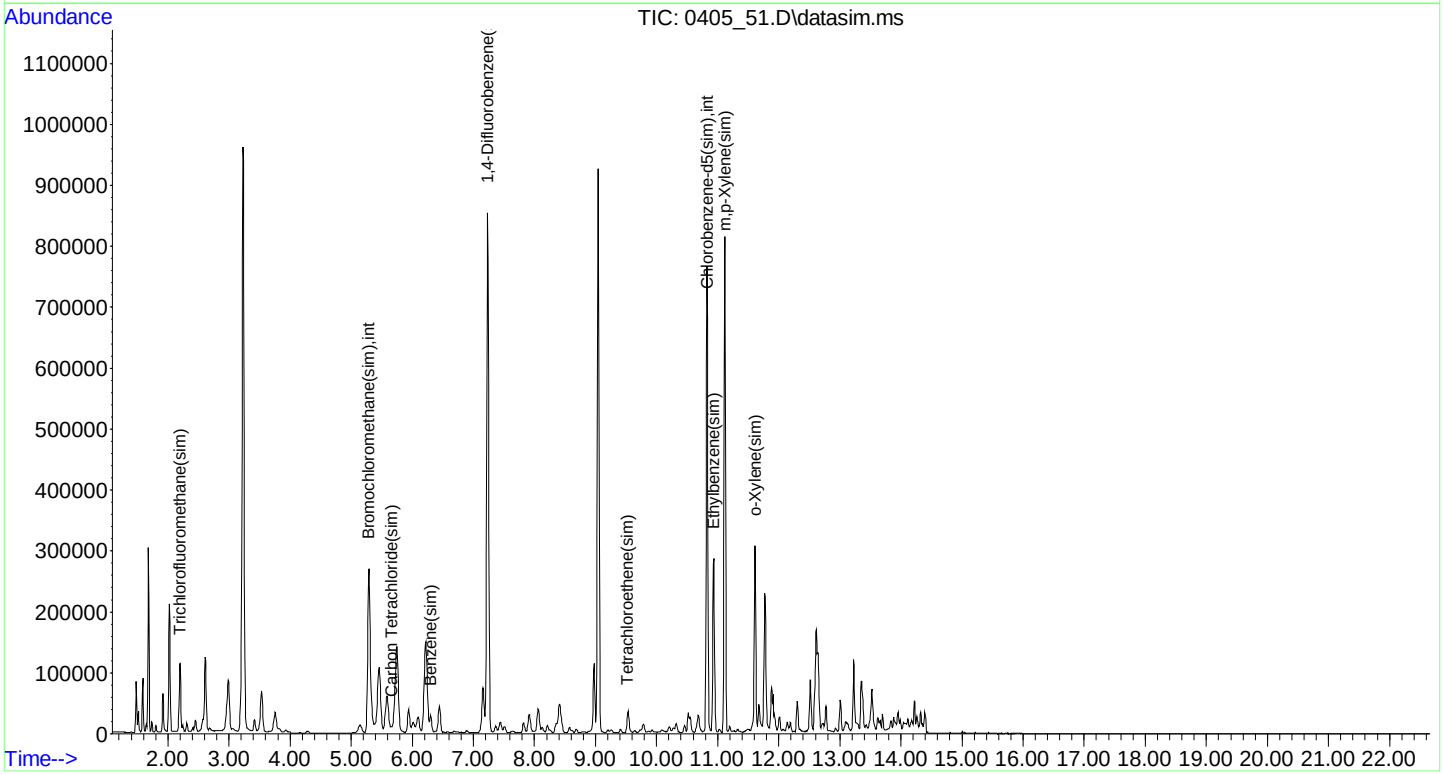
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

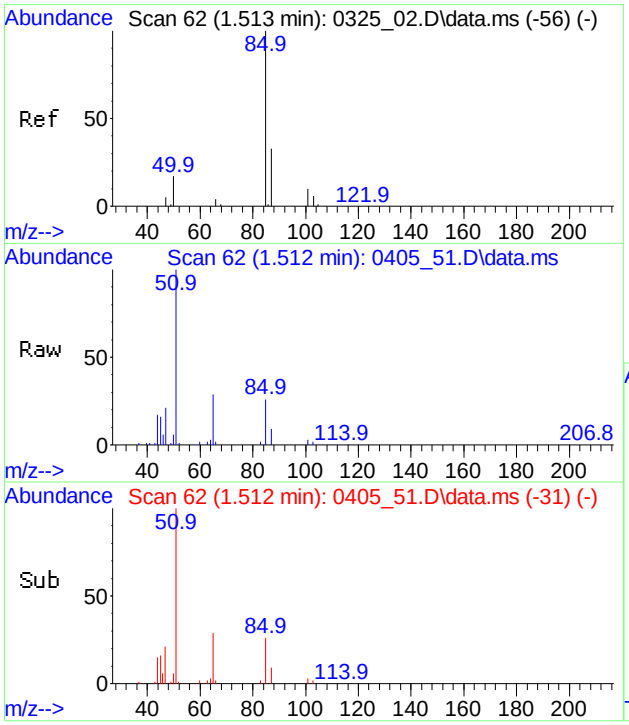
Quantitation Report (QT Reviewed)

Data Path : H:\AIR2021\CHEM24\04APR\05\
Data File : 0405_51.D
Acq On : 6 Apr 2021 9:57 pm
Operator : Keith
Client ID : SS-8 (4')
Lab ID : CH92061
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Apr 07 08:25:27 2021
Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 26 09:02:26 2021
Response via : Initial Calibration



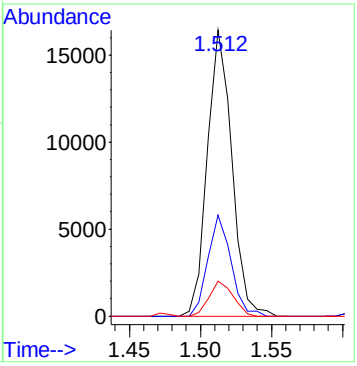



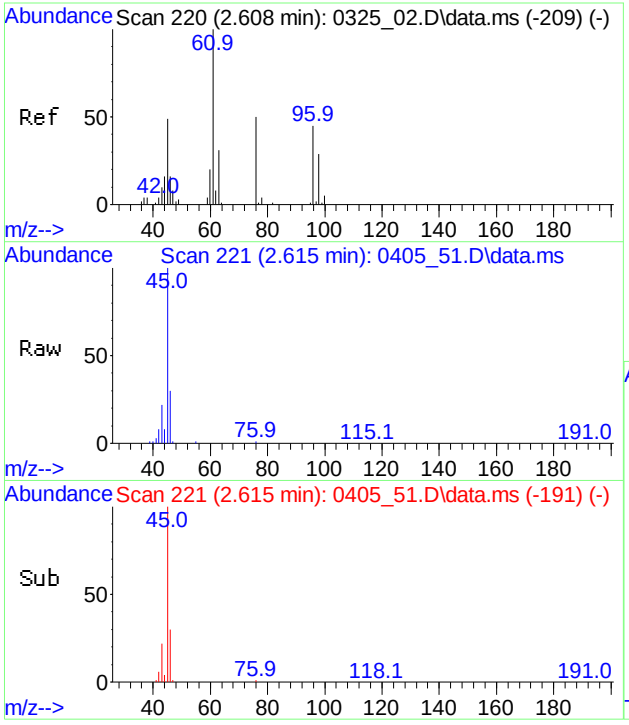



#3
Dichlorodifluoromethane
Conc: 8$ 0.317 ppbv
RT: 1.512 min Scan# 62
Delta R.T. 0.013 min
Lab File: 0405_51.D
Acq: 6 Apr 2021 9:57 pm

Tgt Ion: 85 Resp: 19768

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 33.3 | 26.6 | 40.0 |
| 101 | 11.8 | 7.9 | 11.9 |

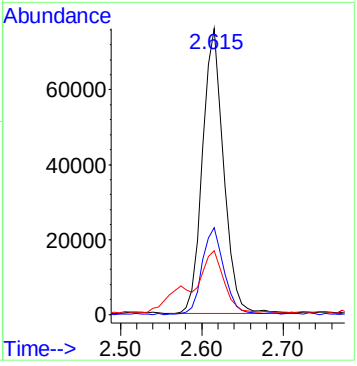


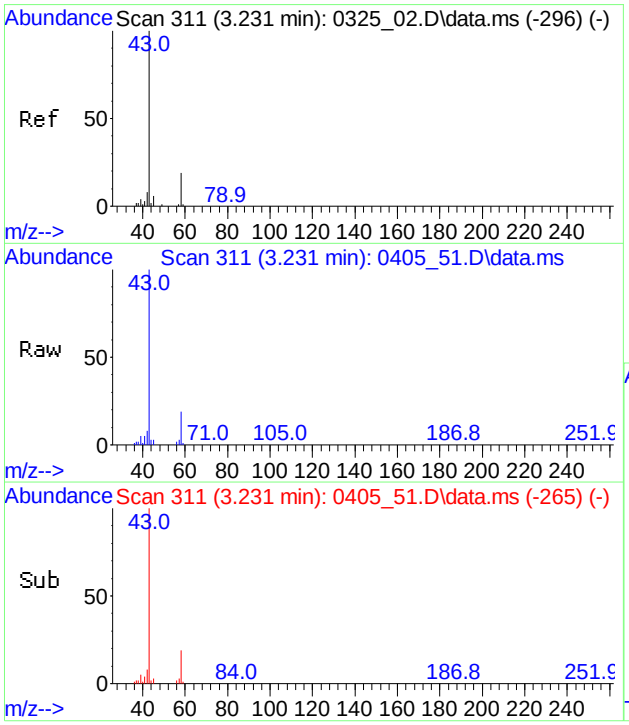




#10
Ethanol
Conc: 8$ 9.063 ppbv
RT: 2.615 min Scan# 221
Delta R.T. 0.020 min
Lab File: 0405_51.D
Acq: 6 Apr 2021 9:57 pm

Tgt Ion: 45 Resp: 137558

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 31.4 | 27.8 | 41.6 |
| 43 | 22.2 | 17.3 | 25.9 |

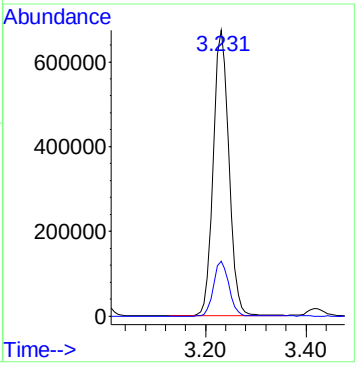


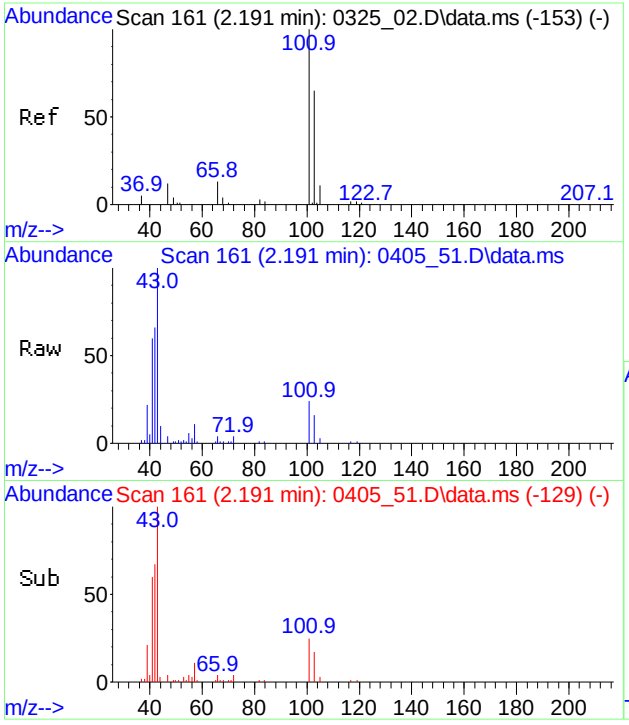



#12
Acetone
Conc: 8$ 16.572 ppbv
RT: 3.231 min Scan# 311
Delta R.T. 0.014 min
Lab File: 0405_51.D
Acq: 6 Apr 2021 9:57 pm

Tgt Ion: 43 Resp: 1455331

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 19.0 | 13.2 | 19.8 |

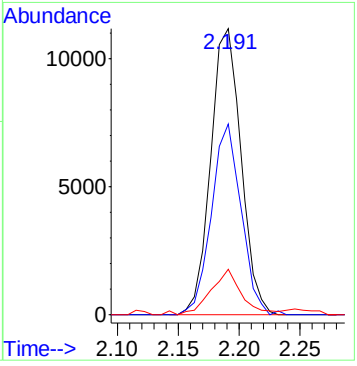


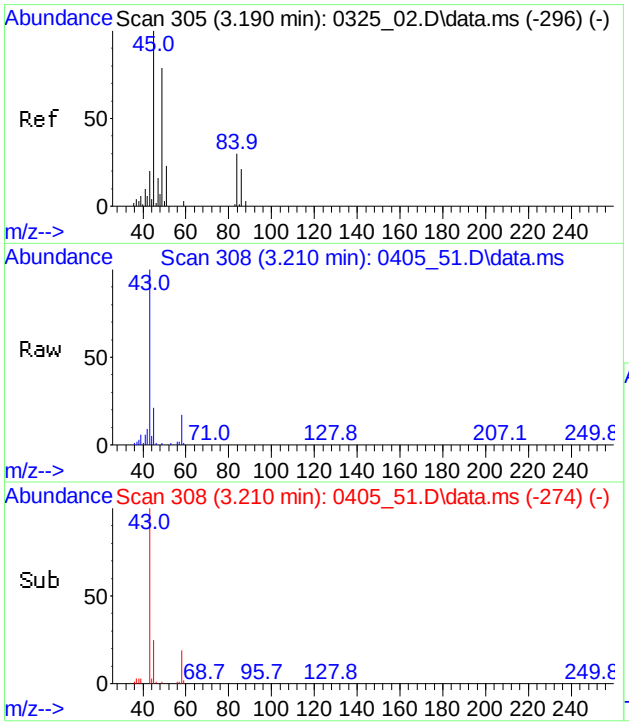




#13
Trichlorofluoromethane
Conc: 8$ 0.218 ppbv
RT: 2.191 min Scan# 161
Delta R.T. 0.021 min
Lab File: 0405_51.D
Acq: 6 Apr 2021 9:57 pm

Tgt Ion:101 Resp: 19086

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 65.2 | 51.5 | 77.3 |
| 66 | 16.0 | 10.6 | 15.8# |

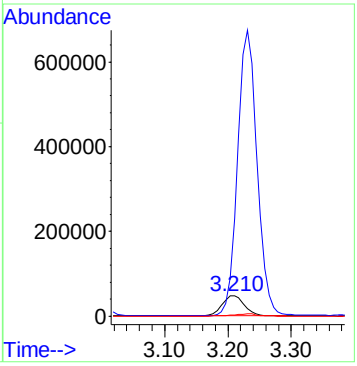


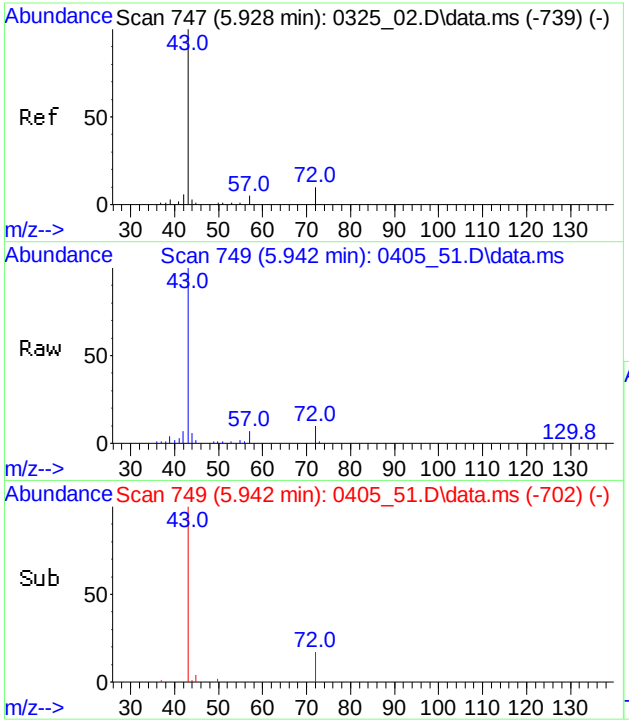



#14
Isopropylalcohol
Conc: 8$ 1.528 ppbv
RT: 3.210 min Scan# 308
Delta R.T. 0.034 min
Lab File: 0405_51.D
Acq: 6 Apr 2021 9:57 pm

Tgt Ion: 45 Resp: 118971

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 1223.3 | 84.1 | 126.1# |
| 59 | 10.9 | 2.6 | 4.0# |

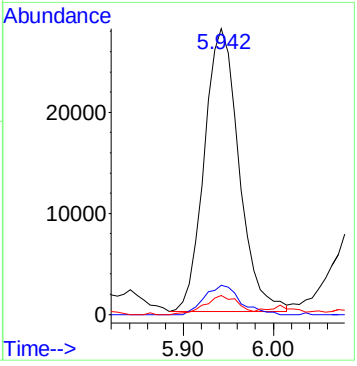


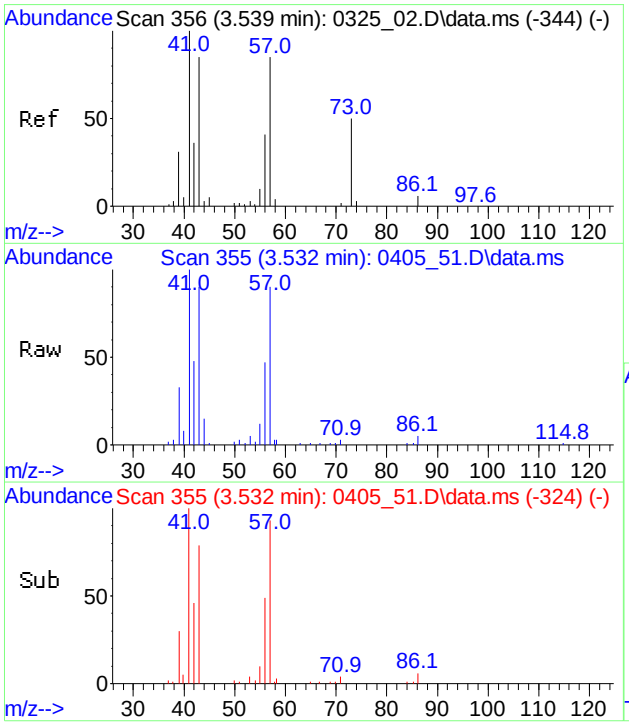




#25
Methyl Ethyl Ketone
Conc: 8$ 0.825 ppbv
RT: 5.942 min Scan# 749
Delta R.T. 0.036 min
Lab File: 0405_51.D
Acq: 6 Apr 2021 9:57 pm

Tgt Ion: 43 Resp: 74664

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 10.5 | 8.5 | 12.7 |
| 57 | 6.5 | 4.2 | 6.4# |

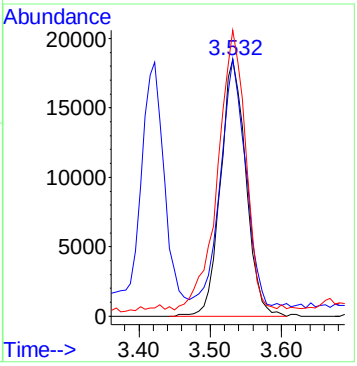


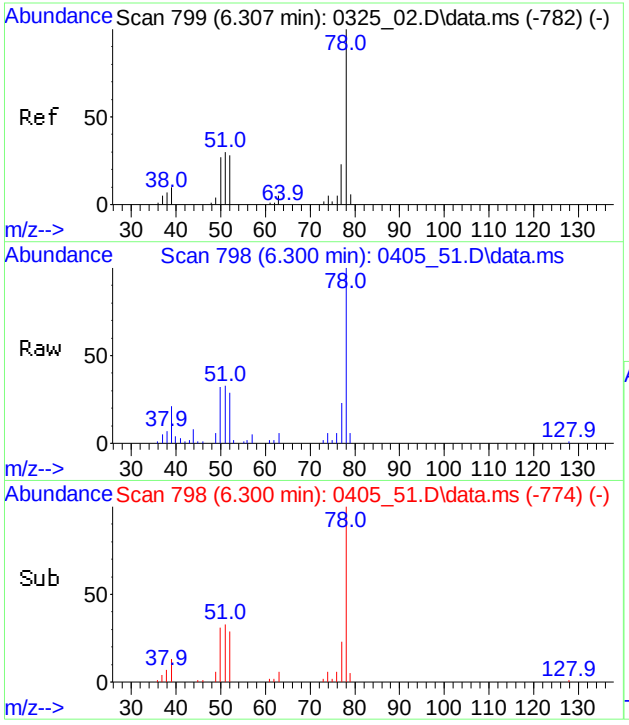



#27
Hexane
Conc: 8$ 0.748 ppbv
RT: 3.532 min Scan# 355
Delta R.T. 0.014 min
Lab File: 0405_51.D
Acq: 6 Apr 2021 9:57 pm

Tgt Ion: 57 Resp: 45637

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 43 | 95.1 | 83.3 | 124.9 |
| 41 | 120.1 | 95.6 | 143.4 |

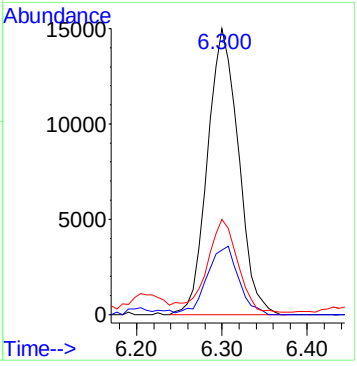


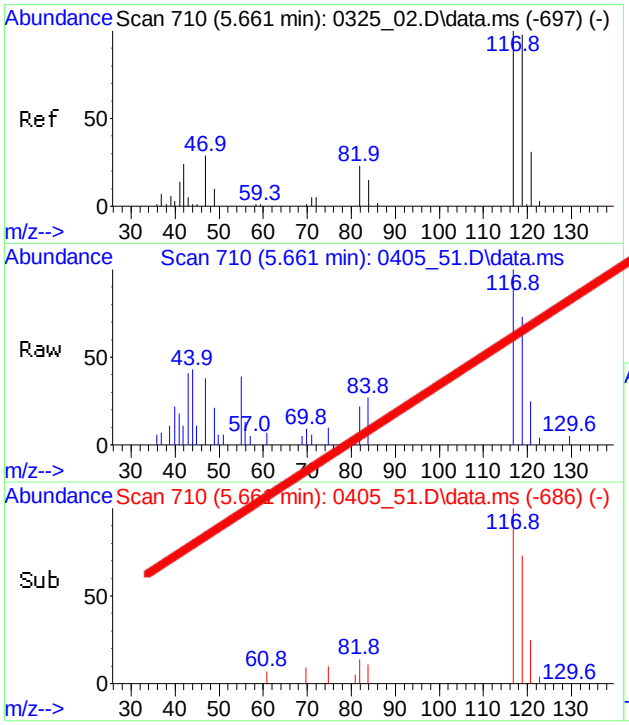




#33
Benzene
Conc: 8$ 0.531 ppbv
RT: 6.300 min Scan# 798
Delta R.T. 0.014 min
Lab File: 0405_51.D
Acq: 6 Apr 2021 9:57 pm

Tgt Ion: 78 Resp: 37625

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 24.2 | 18.2 | 27.2 |
| 51 | 31.7 | 24.2 | 36.2 |

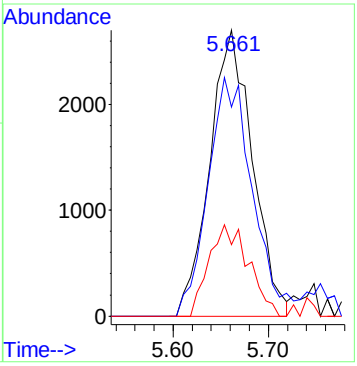


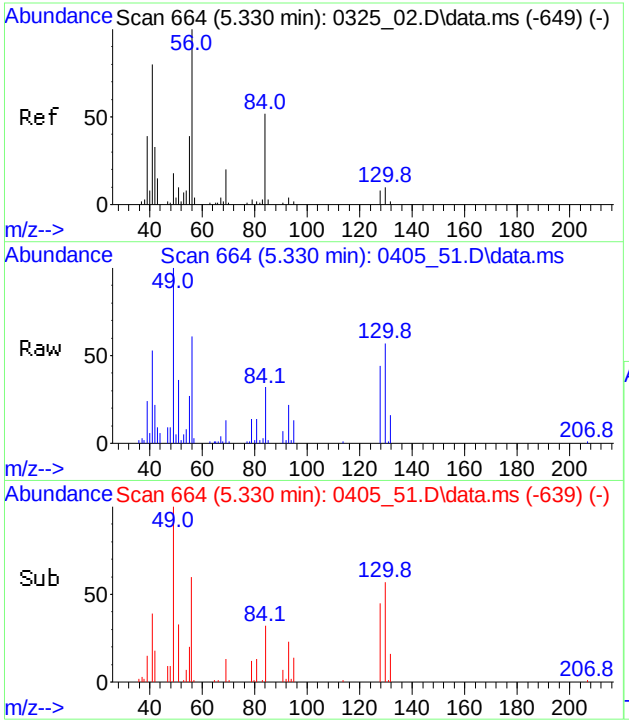



#34
Carbon Tetrachloride
Conc: 8$  Below Cal
RT:  5.661 min  Scan# 710
Delta R.T.  0.022 min
Lab File:  0405_51.D
Acq:  6 Apr 2021  9:57 pm

Tgt Ion:117 Resp:  8401

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 86.4 | 78.0 | 118.0 |
| 121 | 29.7 | 12.1 | 52.1 |

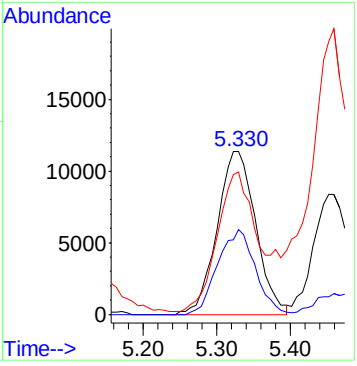


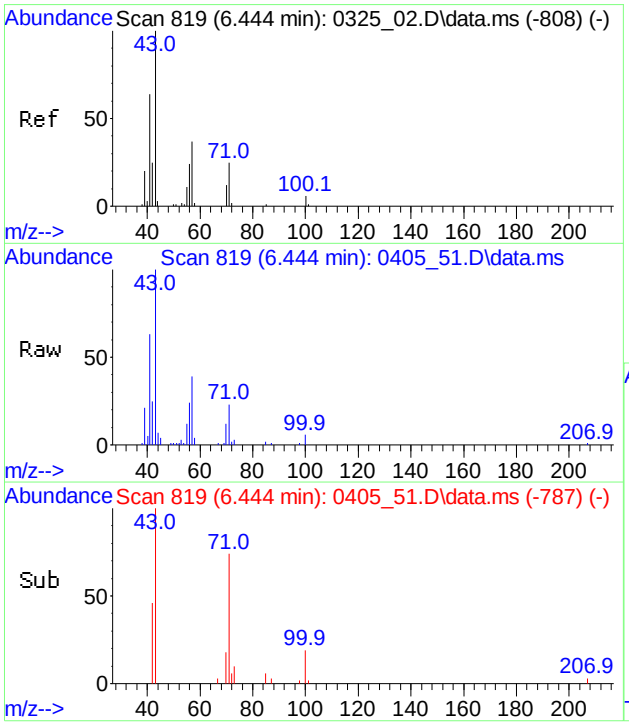




#35
Cyclohexane
Conc: 8$  0.865 ppbv
RT:  5.330 min  Scan# 664
Delta R.T.  0.029 min
Lab File:  0405_51.D
Acq:  6 Apr 2021  9:57 pm

Tgt Ion: 56 Resp:  41379

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 84 | 50.7 | 42.2 | 63.4 |
| 41 | 86.6 | 64.1 | 96.1 |

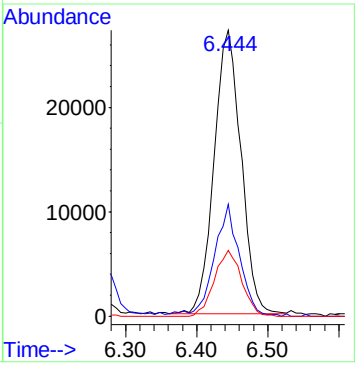


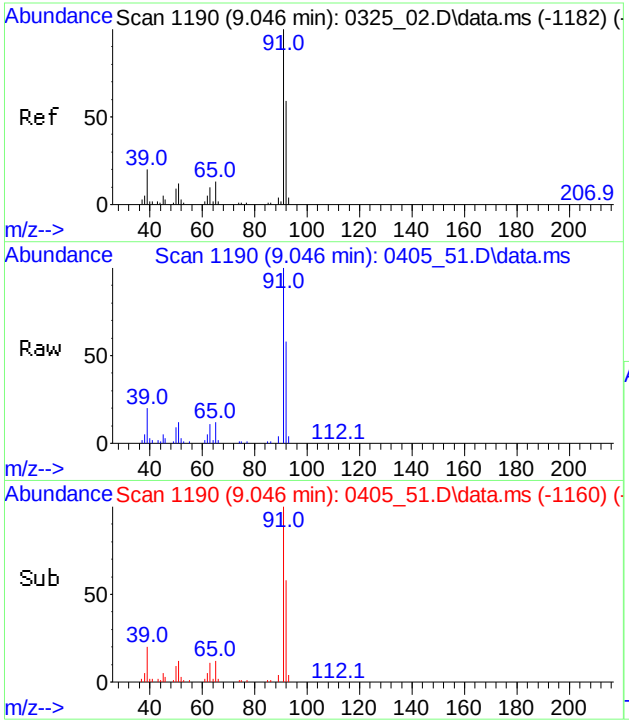



#43
Heptane
Conc: 8$ 0.905 ppbv
RT: 6.444 min Scan# 819
Delta R.T. 0.021 min
Lab File: 0405_51.D
Acq: 6 Apr 2021 9:57 pm

Tgt Ion: 43 Resp: 71712

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 57 | 37.3 | 29.5 | 44.3 |
| 71 | 23.3 | 19.8 | 29.8 |

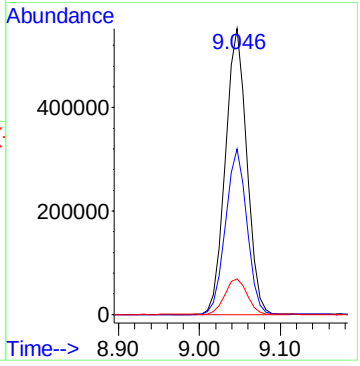


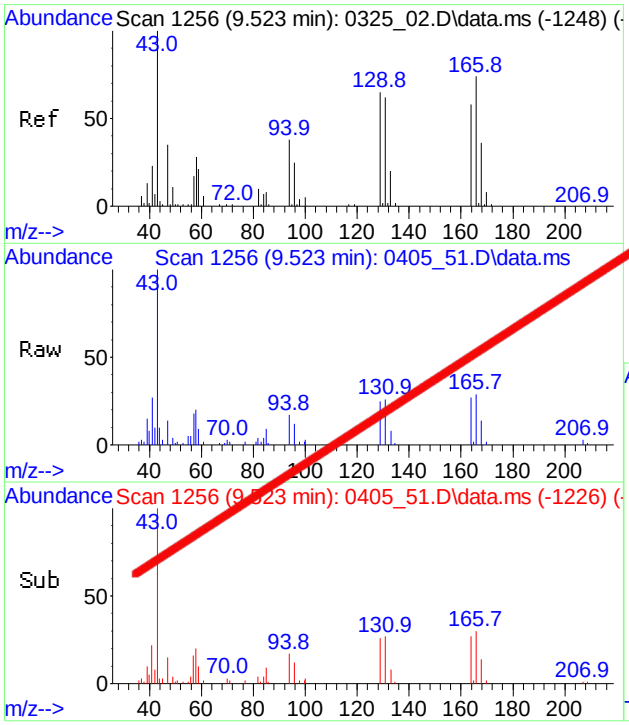




#48
Toluene
Conc: 8$ 11.195 ppbv
RT: 9.046 min Scan# 1190
Delta R.T. 0.014 min
Lab File: 0405_51.D
Acq: 6 Apr 2021 9:57 pm

Tgt Ion: 91 Resp: 1012673

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 57.8 | 46.3 | 69.5 |
| 65 | 12.8 | 10.1 | 15.1 |

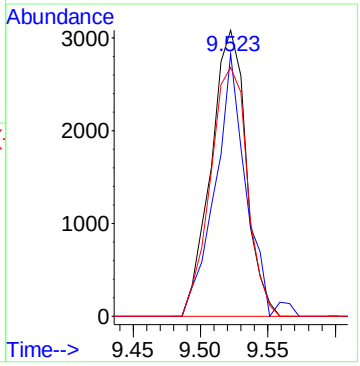


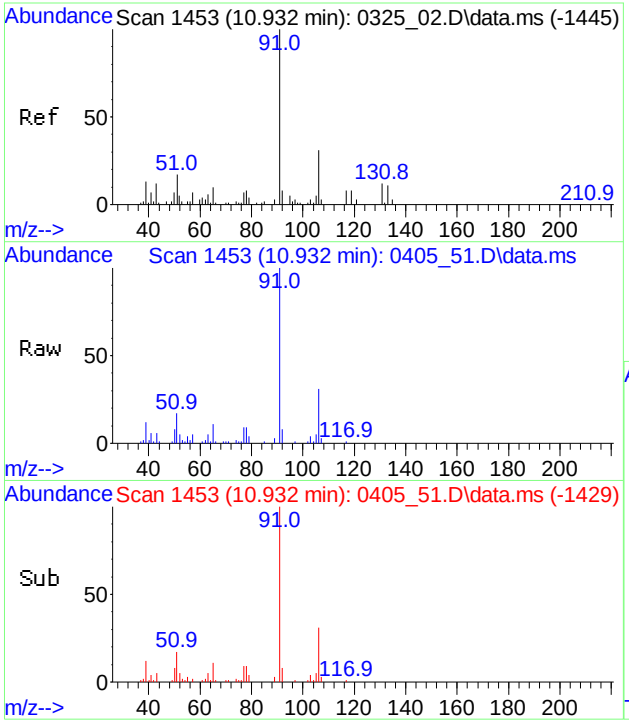



#52
Tetrachloroethene
Conc: 8$  Below Cal
RT:  9.523 min  Scan# 1256
Delta R.T.  0.015 min
Lab File:  0405_51.D
Acq:  6 Apr 2021  9:57 pm

Tgt Ion:166 Resp:  5569

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 164 | 81.1 | 62.2 | 93.4 |
| 129 | 91.8 | 68.3 | 102.5 |

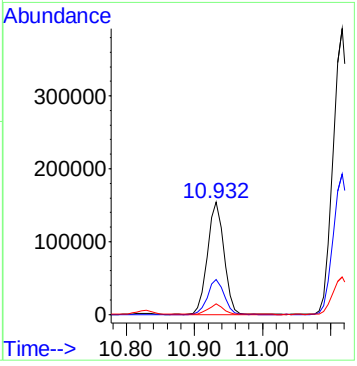


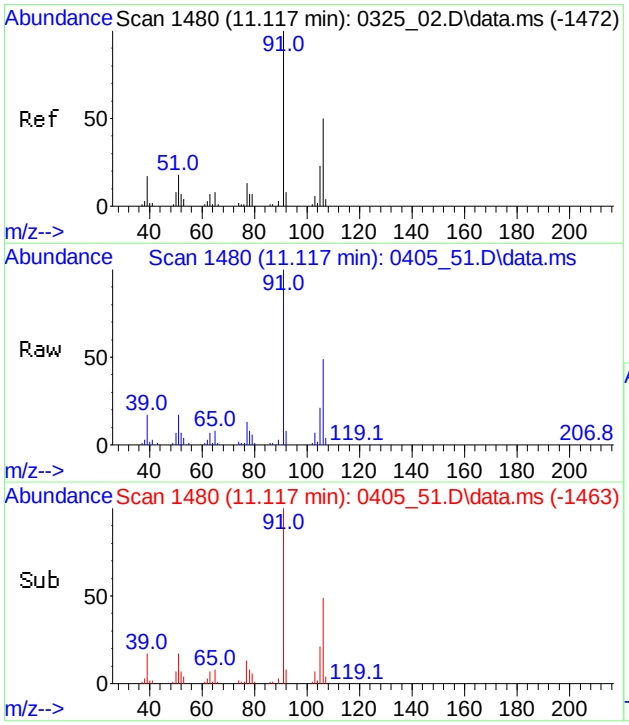




#56
Ethylbenzene
Conc: 8$  2.044 ppbv
RT:  10.932 min  Scan# 1453
Delta R.T.  0.014 min
Lab File:  0405_51.D
Acq:  6 Apr 2021  9:57 pm

Tgt Ion: 91 Resp:  260074

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 31.1 | 11.4 | 51.4 |
| 77 | 8.8 | 0.0 | 28.7 |

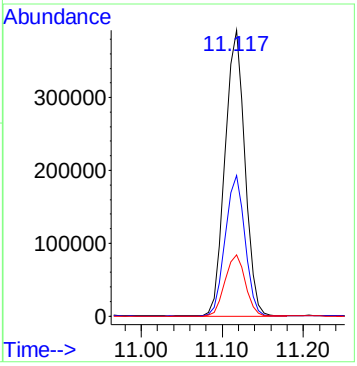


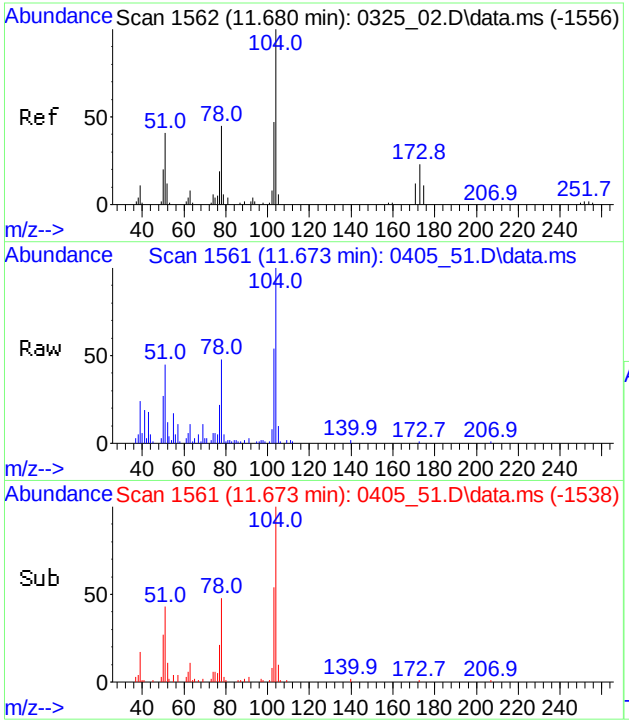



#57
m,p-Xylene
Conc: 8$ 6.957 ppbv
RT: 11.117 min Scan# 1480
Delta R.T. 0.013 min
Lab File: 0405_51.D
Acq: 6 Apr 2021 9:57 pm

Tgt Ion: 91 Resp: 665658

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 49.0 | 39.8 | 59.8 |
| 105 | 21.9 | 18.2 | 27.4 |

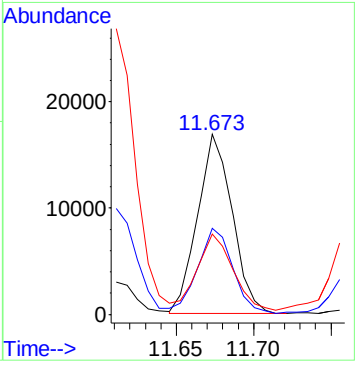


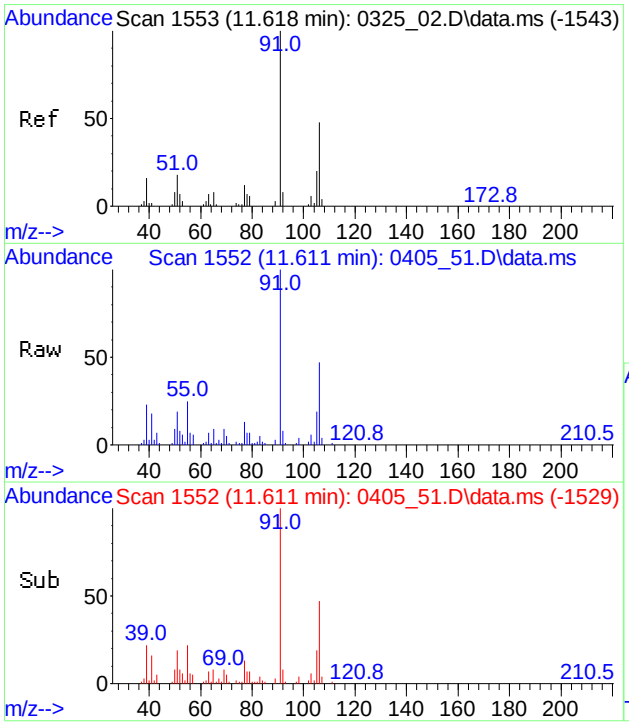




#59
Styrene
Conc: 8$ 0.382 ppbv
RT: 11.673 min Scan# 1561
Delta R.T. 0.007 min
Lab File: 0405_51.D
Acq: 6 Apr 2021 9:57 pm

Tgt Ion:104 Resp: 26188

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 47.7 | 36.2 | 54.4 |
| 51 | 43.3 | 33.0 | 49.6 |

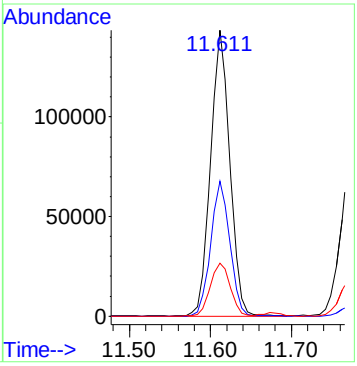


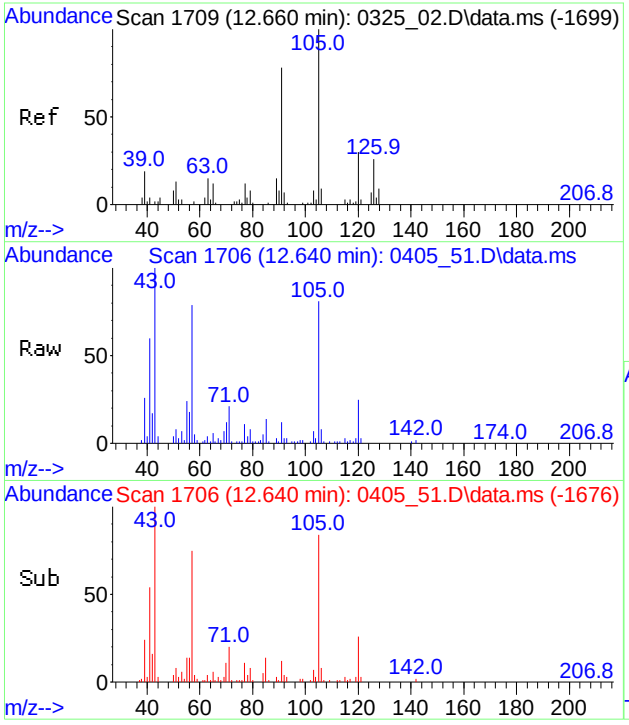



#61
o-Xylene
Conc: 8$ 2.469 ppbv
RT: 11.611 min Scan# 1552
Delta R.T. 0.007 min
Lab File: 0405_51.D
Acq: 6 Apr 2021 9:57 pm

Tgt Ion: 91 Resp: 236034

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 46.8 | 37.5 | 56.3 |
| 105 | 19.3 | 15.1 | 22.7 |

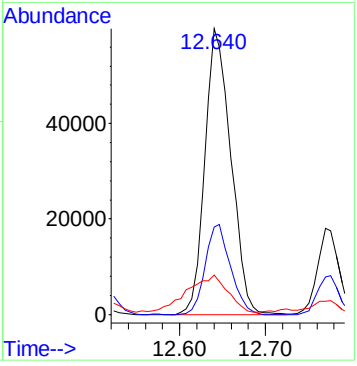


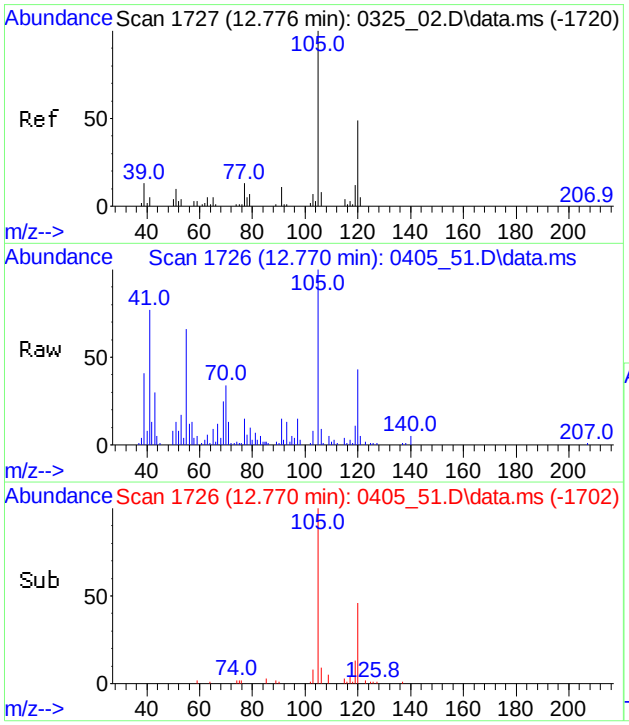




#66
4-Ethyltoluene
Conc: 8$ 0.888 ppbv
RT: 12.640 min Scan# 1706
Delta R.T. -0.006 min
Lab File: 0405_51.D
Acq: 6 Apr 2021 9:57 pm

Tgt Ion:105 Resp: 125805

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 30.5 | 24.0 | 36.0 |
| 77 | 20.9 | 9.2 | 13.8# |

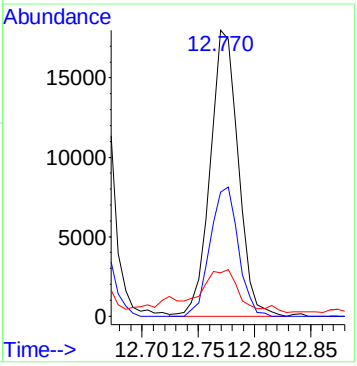


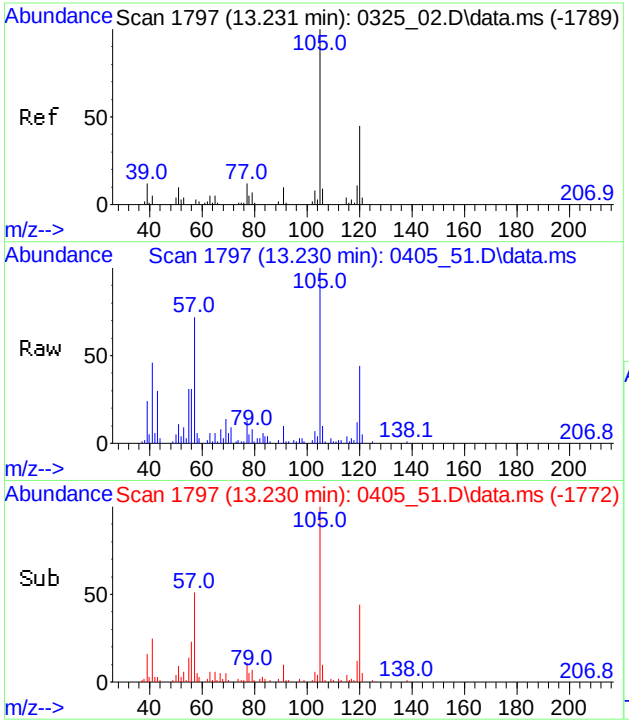



#67
1,3,5-Trimethylbenzene
Conc: 8$ 0.269 ppbv
RT: 12.770 min Scan# 1726
Delta R.T. 0.007 min
Lab File: 0405_51.D
Acq: 6 Apr 2021 9:57 pm

Tgt Ion:105 Resp: 31125

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 45.2 | 39.0 | 58.4 |
| 77 | 19.9 | 10.2 | 15.4# |

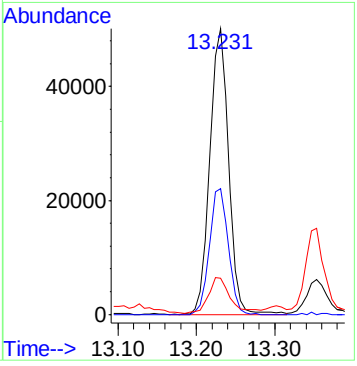


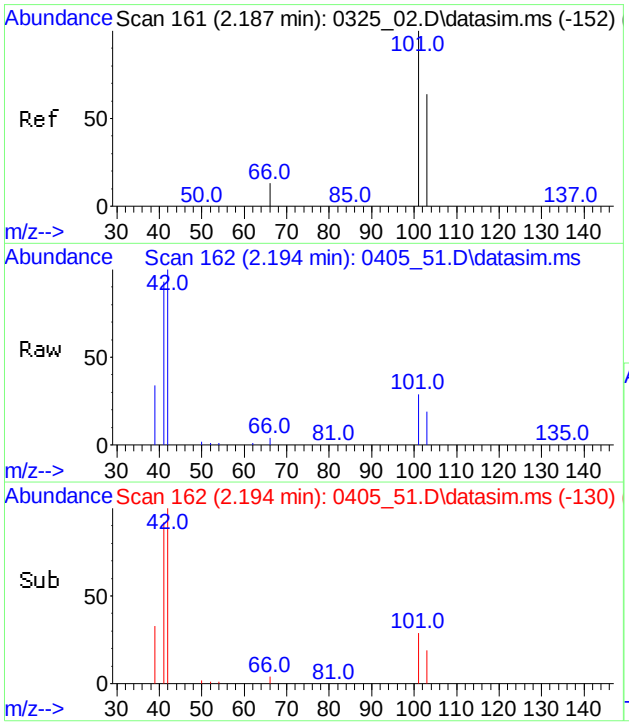




#68
1,2,4-Trimethylbenzene
Conc: 8$ 0.766 ppbv
RT: 13.230 min Scan# 1797
Delta R.T. 0.013 min
Lab File: 0405_51.D
Acq: 6 Apr 2021 9:57 pm

Tgt Ion:105 Resp: 84535

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 44.1 | 36.7 | 55.1 |
| 77 | 14.3 | 10.0 | 15.0 |

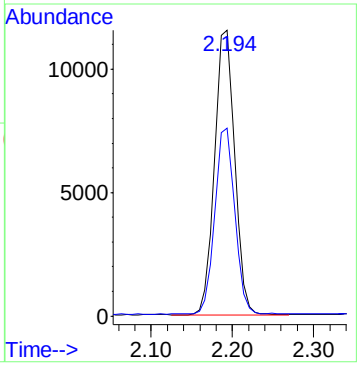


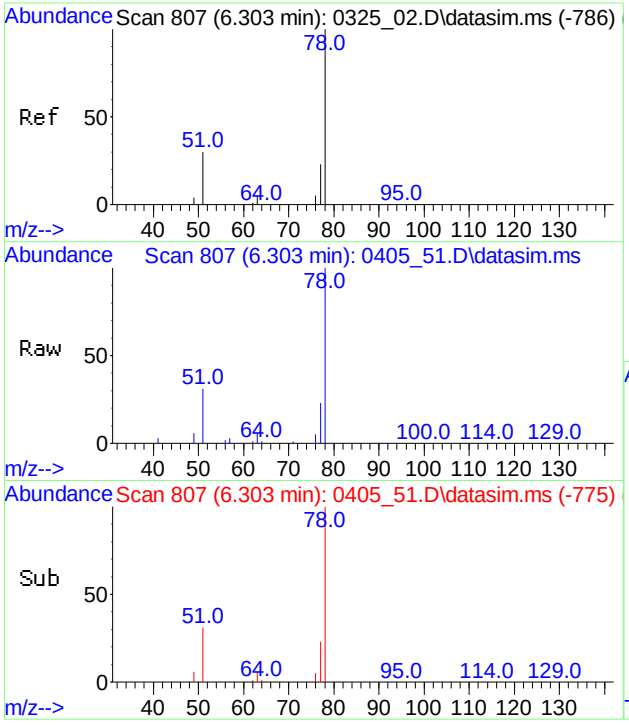



#84
Trichlorofluoromethane(sim)
Conc: 8$ 0.197 ppbv
RT: 2.194 min Scan# 162
Delta R.T. 0.021 min
Lab File: 0405_51.D
Acq: 6 Apr 2021 9:57 pm

Tgt Ion:101 Resp: 19848

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 64.6 | 51.9 | 77.9 |

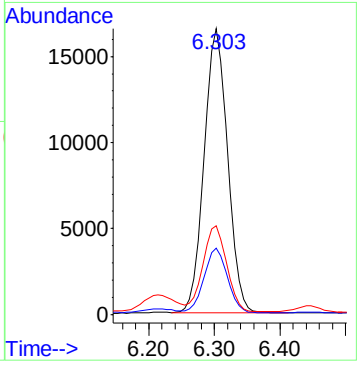


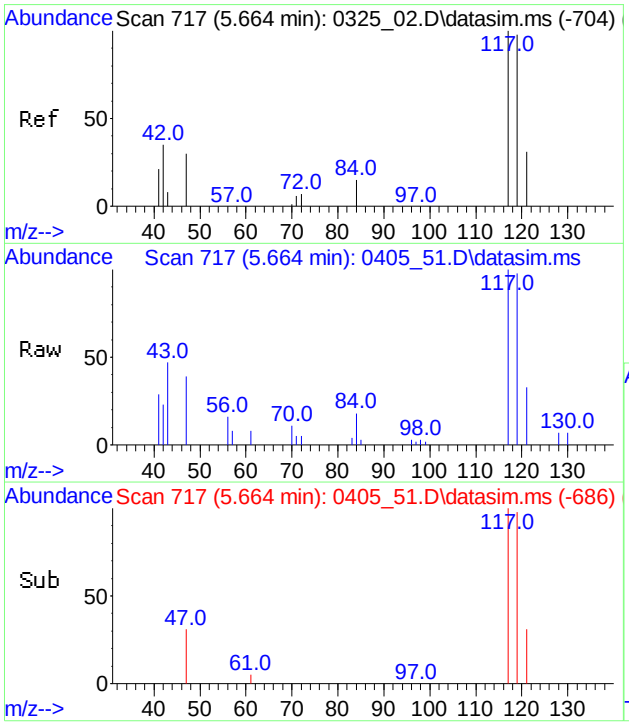




#86
Benzene(sim)
Conc: 8$ 0.491 ppbv
RT: 6.303 min Scan# 807
Delta R.T. 0.021 min
Lab File: 0405_51.D
Acq: 6 Apr 2021 9:57 pm

Tgt Ion: 78 Resp: 40508

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 22.6 | 18.0 | 27.0 |
| 51 | 30.4 | 23.9 | 35.9 |

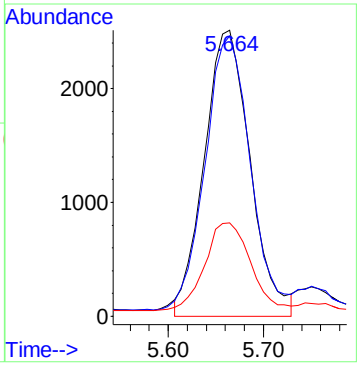


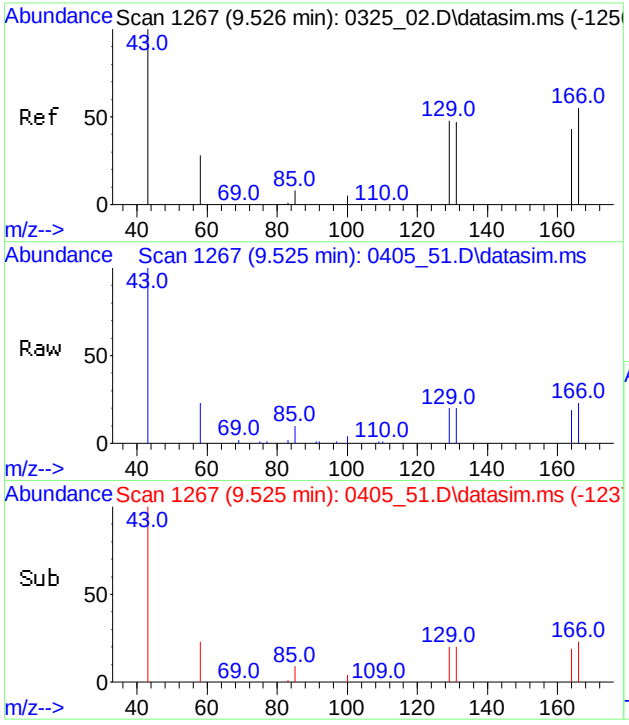



#87
Carbon Tetrachloride(sim)
Conc: 8$ 0.094 ppbv
RT: 5.661 min Scan# 717
Delta R.T. 0.022 min
Lab File: 0405_51.D
Acq: 6 Apr 2021 9:57 pm

Tgt Ion:117 Resp: 8110

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 86.6 | 78.4 | 117.6 |
| 121 | 23.5 | 25.7 | 38.5# |

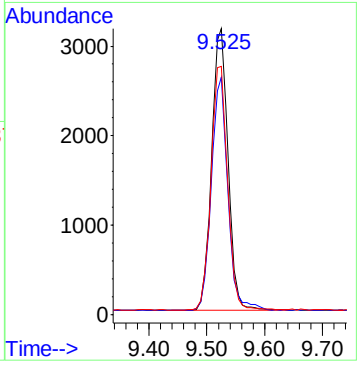


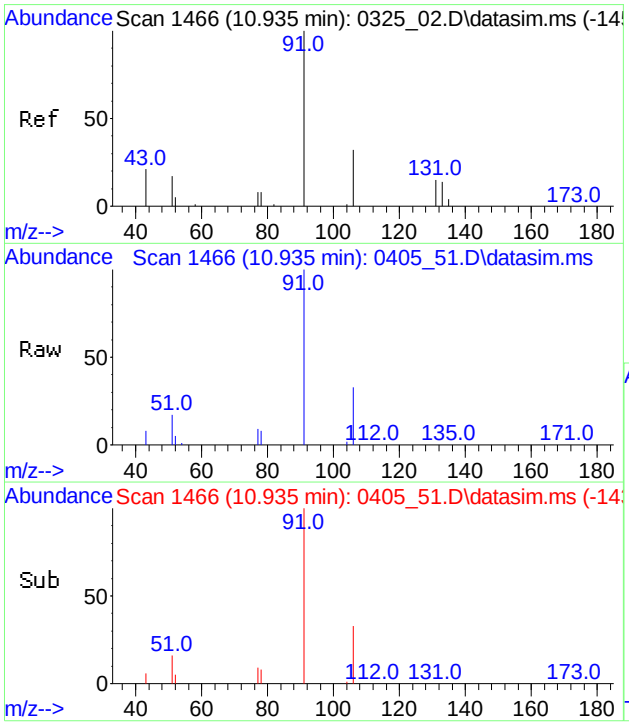




#104
Tetrachloroethene(sim)
Conc: 8$ 0.106 ppbv
RT: 9.525 min Scan# 1267
Delta R.T. 0.014 min
Lab File: 0405_51.D
Acq: 6 Apr 2021 9:57 pm

Tgt Ion:166 Resp: 6151

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 164 | 83.3 | 58.4 | 98.4 |
| 129 | 87.6 | 66.6 | 106.6 |

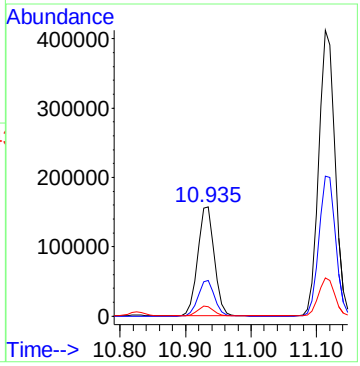


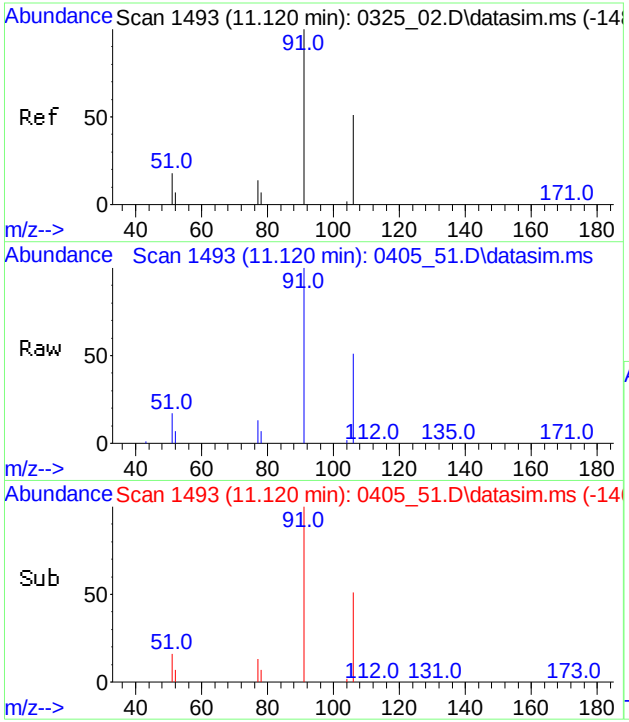



#108
Ethylbenzene(sim)
Conc: 8$ 1.996 ppb
RT: 10.935 min Scan# 1466
Delta R.T. 0.014 min
Lab File: 0405_51.D
Acq: 6 Apr 2021 9:57 pm

Tgt Ion: 91 Resp: 276711

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 32.2 | 25.8 | 38.8 |
| 77 | 8.8 | 7.0 | 10.6 |

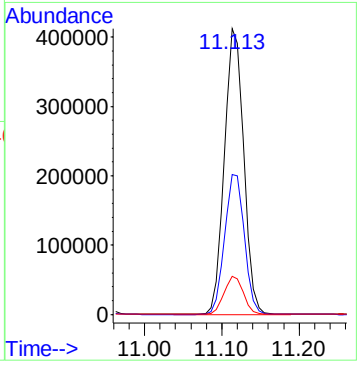


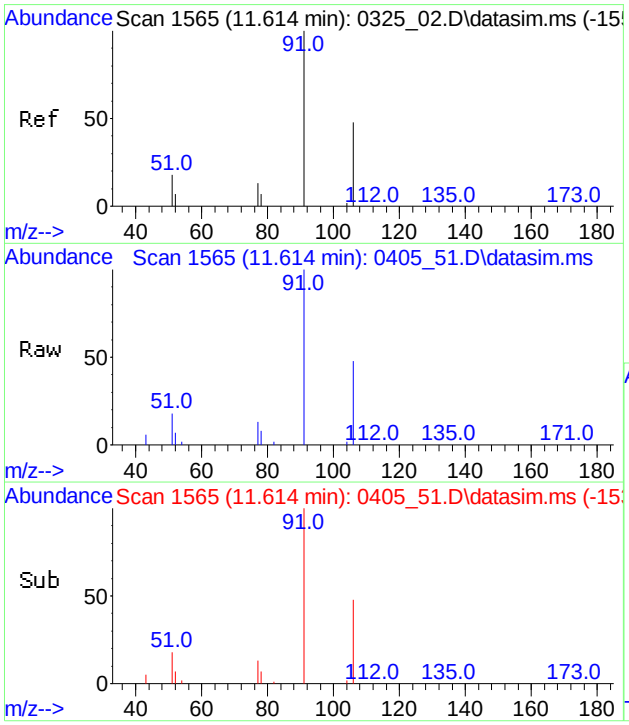




#109
m,p-Xylene(sim)
Conc: 8$ 7.053 ppbv
RT: 11.117 min Scan# 1493
Delta R.T. 0.013 min
Lab File: 0405_51.D
Acq: 6 Apr 2021 9:57 pm

Tgt Ion: 91 Resp: 665950

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 49.0 | 44.8 | 54.8 |
| 77 | 13.2 | 10.5 | 15.7 |

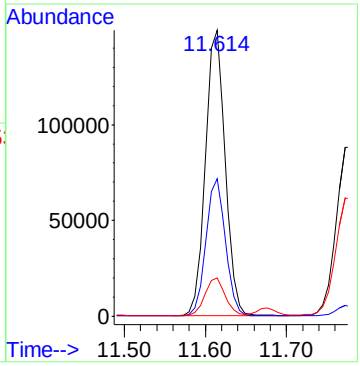





#110
o-Xylene(sim)
Conc: 8$ 2.562 ppb
RT: 11.614 min Scan# 1565
Delta R.T. 0.014 min
Lab File: 0405_51.D
Acq: 6 Apr 2021 9:57 pm

Tgt Ion: 91 Resp: 253086

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 47.5 | 37.6 | 56.4 |
| 77 | 13.5 | 9.8 | 14.8 |



AIR ANALYSIS DATA SHEET

CLIENT ID: IA-1

Client: GC-ENV Lab: Phoenix Env. Labs

SDG No.: GCH92051 Lab Sample ID: CH92062

Canister: 23345 Lab File ID: 0405_18.D

Instrument: CHEM20 Column: RTX-1 60M Date Received: 04/05/21

Purge Volume 200 (cc) Date Analyzed: 04/05/21

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 | 0.407 | | 0.202 | 0.202 | r |
| 74-87-3 | Chloromethane | 0.737 | | 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 | 228 | ES | 0.531 | 0.531 | |
| 67-64-1 | Acetone | 50.6 | ES | 0.421 | 0.421 | |
| 75-69-4 | Trichlorofluoromethane | 0.267 | | 0.178 | 0.178 | r |
| 67-63-0 | Isopropylalcohol | 3.80 | 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 | 0.760 | | 0.339 | 0.339 | r |
| 110-54-3 | Hexane | 4.16 | S | 0.284 | 0.284 | r |
| 141-78-6 | Ethyl acetate | 0.278 | U | 0.278 | 0.278 | r |
| 109-99-9 | Tetrahydrofuran | 0.505 | | 0.339 | 0.339 | r |
| 71-43-2 | Benzene | 1.68 | | 0.313 | 0.313 | r |
| 110-82-7 | Cyclohexane | 2.47 | | 0.291 | 0.291 | r |
| 142-82-5 | Heptane | 3.75 | | 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 | 10.7 | | 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 | 1.19 | | 0.230 | 0.230 | r |
| 179601-23-1 | m,p-Xylene | 4.68 | | 0.230 | 0.230 | r |
| 100-42-5 | Styrene | 0.324 | | 0.235 | 0.235 | r |
| 95-47-6 | o-Xylene | 1.55 | | 0.230 | 0.230 | r |
| 98-82-8 | Isopropylbenzene | 0.204 | U | 0.204 | 0.204 | r |
| 622-96-8 | 4-Ethyltoluene | 0.978 | | 0.204 | 0.204 | r |
| 108-67-8 | 1,3,5-Trimethylbenzene | 0.336 | | 0.204 | 0.204 | r |
| 95-63-6 | 1,2,4-Trimethylbenzene | 1.21 | | 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

AIR ANALYSIS DATA SHEET

CLIENT ID: IA-1

Client: GC-ENV Lab: Phoenix Env. Labs

SDG No.: GCH92051 Lab Sample ID: CH92062

Canister: 23345 Lab File ID: 0405_18.D

Instrument: CHEM20 Column: RTX-1 60M Date Received: 04/05/21

Purge Volume 200 (cc) Date Analyzed: 04/05/21

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) | 0.128 | | 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 |
| 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:\AIR2021\CHEM20\04APR\05\
Data File : 0405_18.D
Acq On : 5 Apr 2021 8:13 pm
Operator :
Client ID : IA-1
Lab ID : CH92062
ALS Vial : 18 Sample Multiplier: 1

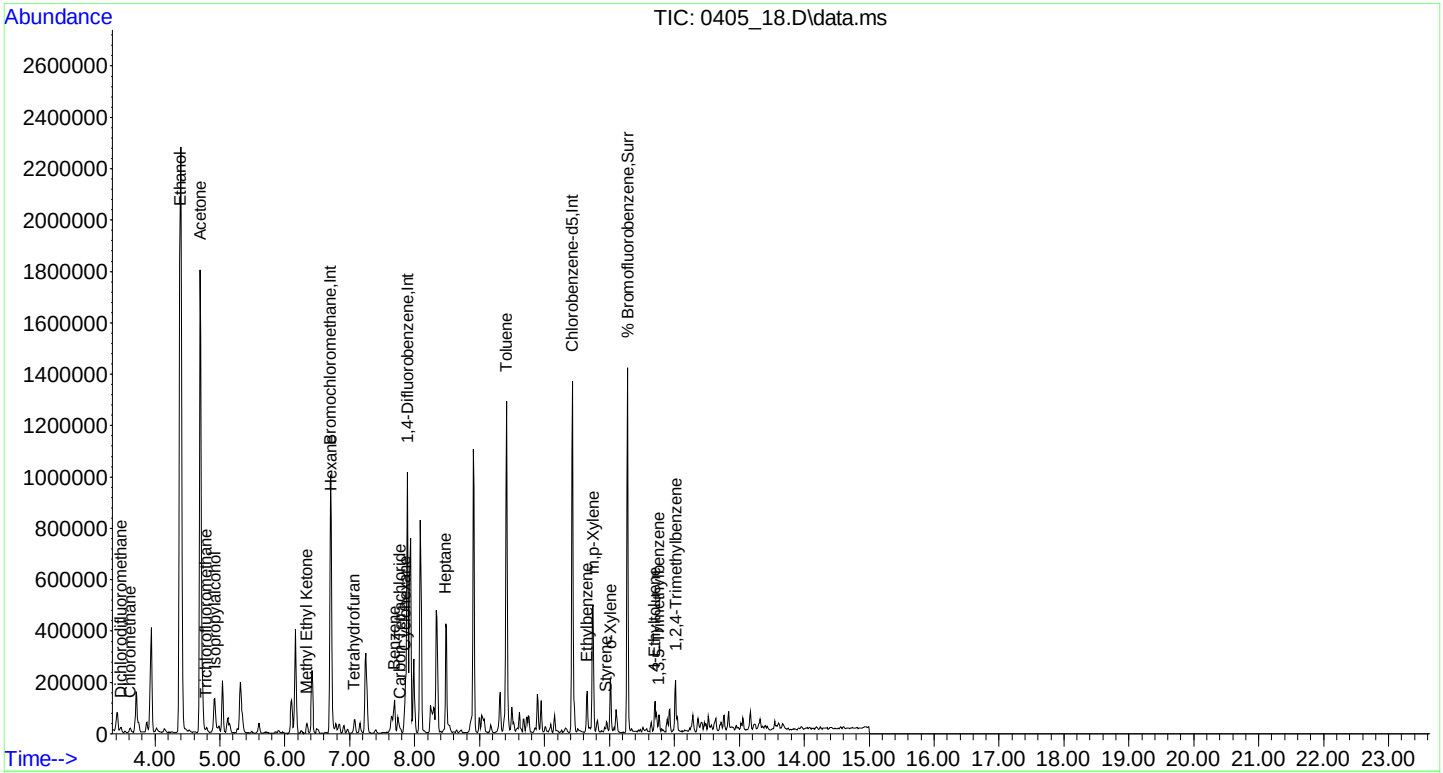
Quant Time: Apr 06 08:33:34 2021
Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0329.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Mar 29 13:12:48 2021
Response via : Initial Calibration

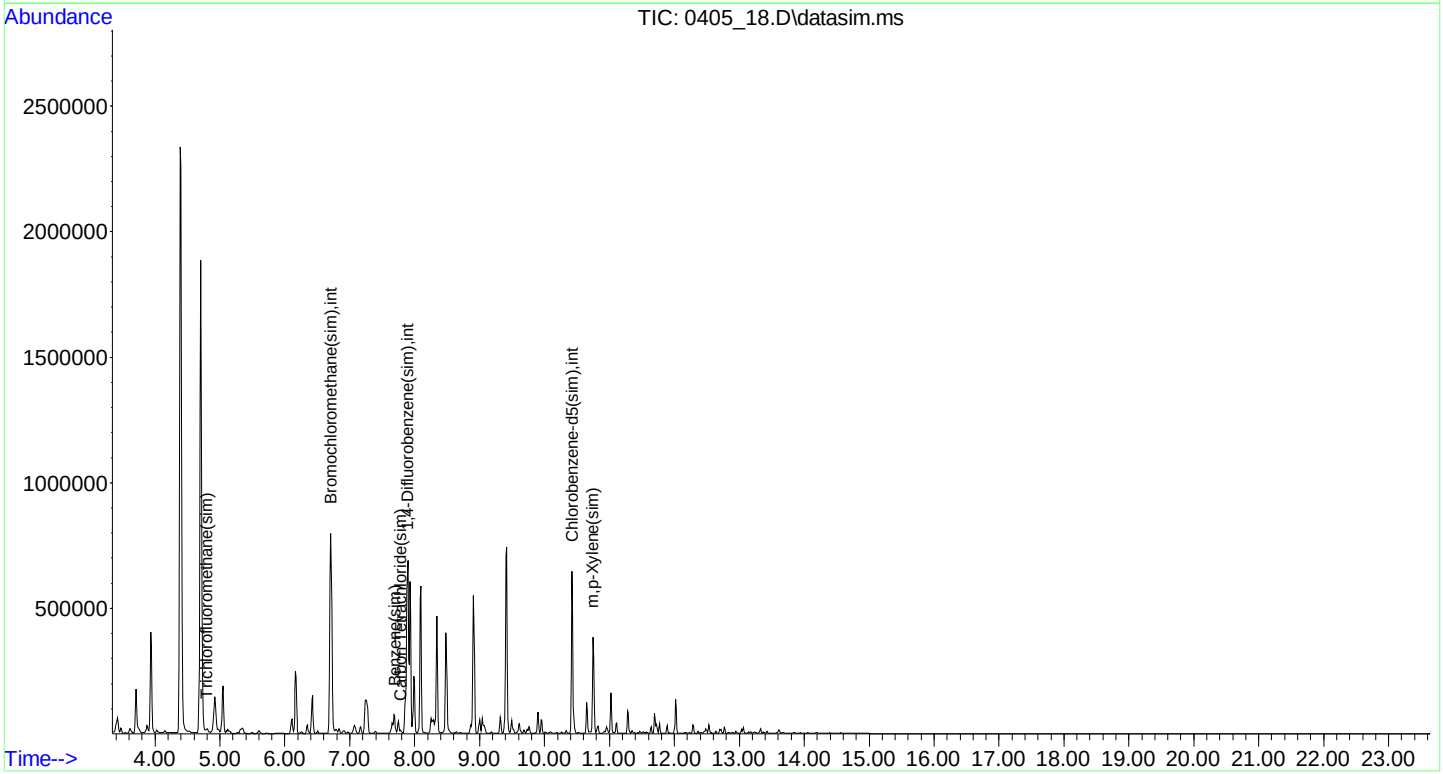
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Bromochloromethane | 6.704 | 130 | 142109 | 10.000 | ng | | 0.00 |
| 37) 1,4-Difluorobenzene | 7.889 | 114 | 532965 | 10.000 | ng | | 0.00 |
| 54) Chlorobenzene-d5 | 10.430 | 82 | 279434 | 10.000 | ng | | 0.00 |
| 81) Bromochloromethane(sim) | 6.710 | 130 | 163360 | 10.000 | ng | # | 0.00 |
| 96) 1,4-Difluorobenzene(sim) | 7.889 | 114 | 532965 | 10.000 | ng | | 0.00 |
| 106) Chlorobenzene-d5(sim) | 10.430 | 82 | 279855 | 10.000 | ng | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 63) % Bromofluorobenzene | 11.281 | 95 | 324013 | 9.839 | ppbv | | 0.00 |
| Spiked Amount 10.000 | Range 70 - 130 | | Recovery = | 98.40% | | | |
| Target Compounds | | | | | | | Qvalue |
| 3) Dichlorodifluoromethane | 3.478 | 85 | 17428 | 0.407 | ppbv# | | 84 |
| 4) Chloromethane | 3.618 | 50 | 19664 | 0.737 | ppbv | | 89 |
| 11) Ethanol | 4.394 | 45 | 2735844 | 228.131 | ppbv# | | 75 |
| 12) Acetone | 4.696 | 43 | 2217917 | 50.598 | ppbv# | | 85 |
| 13) Trichlorofluoromethane | 4.793 | 101 | 11854 | 0.267 | ppbv# | | 89 |
| 14) Isopropylalcohol | 4.922 | 45 | 203850 | 3.795 | ppbv | | 93 |
| 26) Methyl Ethyl Ketone | 6.341 | 43 | 45669 | 0.760 | ppbv# | | 94 |
| 28) Hexane | 6.714 | 57 | 138443 | 4.161 | ppbv | | 94 |
| 31) Tetrahydrofuran | 7.069 | 42 | 16457 | 0.505 | ppbv# | | 78 |
| 34) Benzene | 7.688 | 78 | 69376 | 1.675 | ppbv# | | 87 |
| 35) Carbon Tetrachloride | 7.777 | 117 | 5793 | 0.140 | ppbv | | 87 |
| 36) Cyclohexane | 7.855 | 41 | 64359 | 2.472 | ppbv# | | 61 |
| 44) Heptane | 8.479 | 43 | 199802 | 3.753 | ppbv# | | 93 |
| 49) Toluene | 9.415 | 91 | 544553 | 10.704 | ppbv | | 98 |
| 57) Ethylbenzene | 10.655 | 91 | 79655 | 1.189 | ppbv | | 93 |
| 58) m,p-Xylene | 10.748 | 91 | 238346 | 4.681 | ppbv | | 99 |
| 60) Styrene | 10.953 | 104 | 11311 | 0.324 | ppbv | | 96 |
| 62) o-Xylene | 11.014 | 91 | 84377 | 1.549 | ppbv | | 92 |
| 67) 4-Ethyltoluene | 11.701 | 105 | 73107 | 0.978 | ppbv | | 98 |
| 68) 1,3,5-Trimethylbenzene | 11.763 | 105 | 20918 | 0.336 | ppbv# | | 93 |
| 69) 1,2,4-Trimethylbenzene | 12.019 | 105 | 76567 | 1.205 | ppbv# | | 84 |
| 85] Trichlorofluoromethane... | 4.798 | 101 | 12215 | 0.240 | ppbv# | | 99 |
| 88] Benzene(sim) | 7.688 | 78 | 69376 | 1.636 | ppbv# | | 87 |
| 89] Carbon Tetrachloride(sim) | 7.783 | 117 | 5867 | 0.128 | ppbv | | 99 |
| 105] Tetrachloroethene(sim) | 10.070 | 166 | 1107 | 0.036 | ppbv | | 98 |
| 108] m,p-Xylene(sim) | 10.748 | 91 | 239495 | 4.358 | ppbv | | 99 |

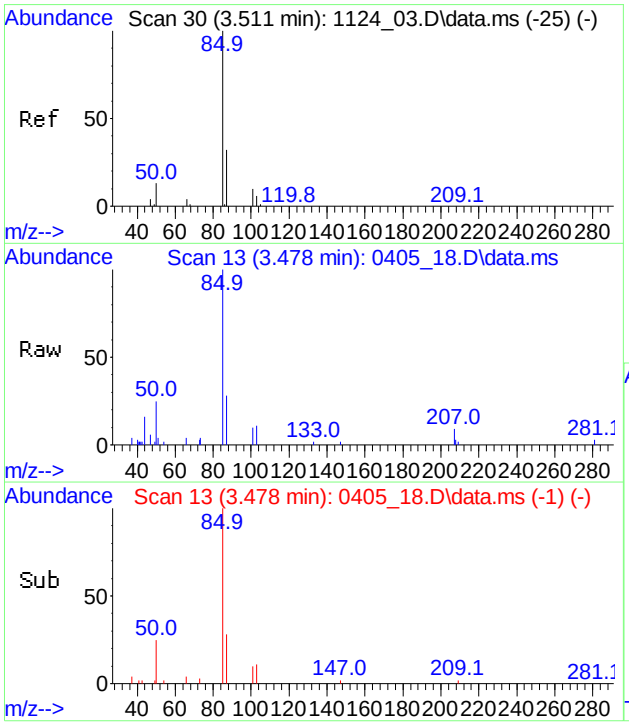
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2021\CHEM20\04APR\05\
Data File : 0405_18.D
Acq On : 5 Apr 2021 8:13 pm
Operator :
Client ID : IA-1
Lab ID : CH92062
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Apr 06 08:33:34 2021
Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0329.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Mar 29 13:12:48 2021
Response via : Initial Calibration



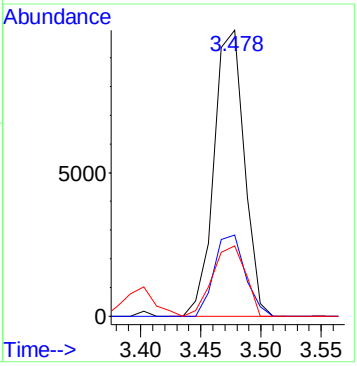



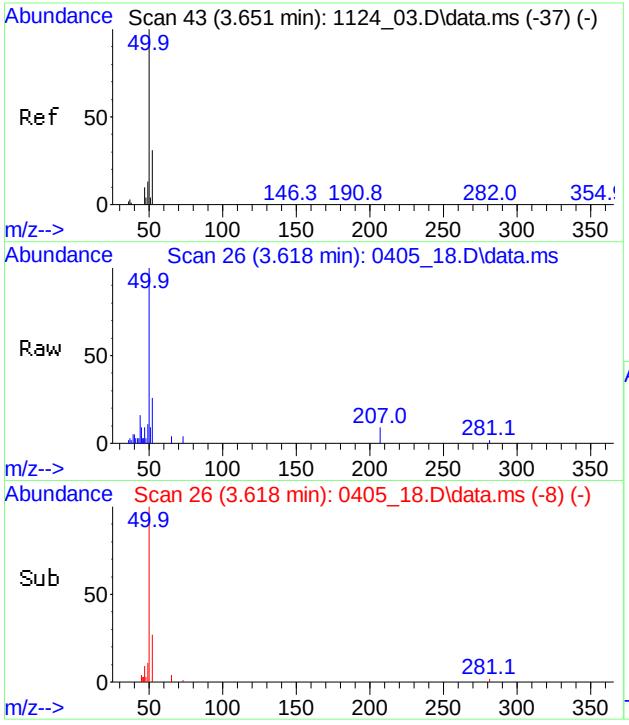



#3
Dichlorodifluoromethane
Conc: 8$ 0.407 ppbv
RT: 3.478 min Scan# 13
Delta R.T. -0.021 min
Lab File: 0405_18.D
Acq: 5 Apr 2021 8:13 pm

Tgt Ion: 85 Resp: 17428

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 29.1 | 30.8 | 46.2# |
| 50 | 26.9 | 15.7 | 23.5# |

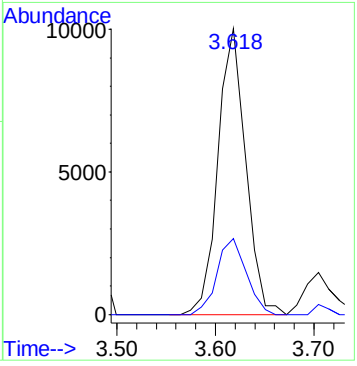


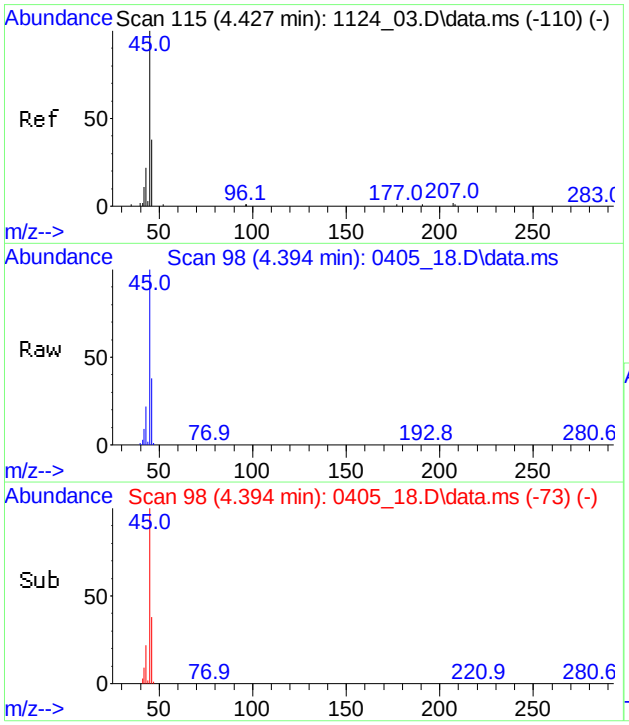




#4
Chloromethane
Conc: 8$ 0.737 ppbv
RT: 3.618 min Scan# 26
Delta R.T. -0.011 min
Lab File: 0405_18.D
Acq: 5 Apr 2021 8:13 pm

Tgt Ion: 50 Resp: 19664

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 28.2 | 14.7 | 54.7 |

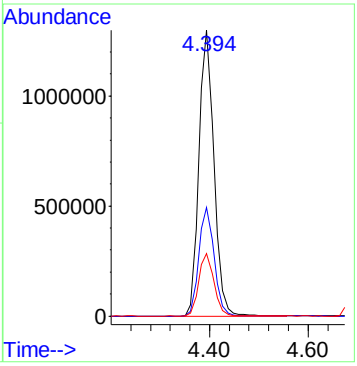


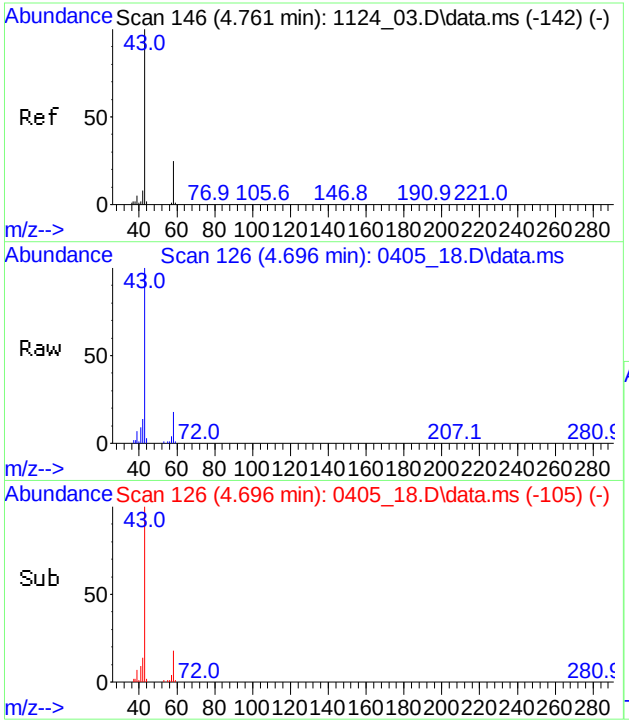



#11
Ethanol
Conc: 8$ 228.131 ppbv
RT: 4.394 min Scan# 98
Delta R.T. -0.032 min
Lab File: 0405_18.D
Acq: 5 Apr 2021 8:13 pm

Tgt Ion: 45 Resp: 2735844

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 38.9 | 0.0 | 0.0# |
| 43 | 22.3 | 10.0 | 15.0# |

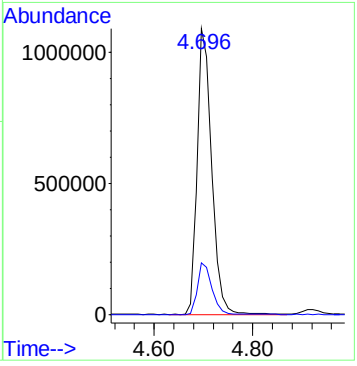


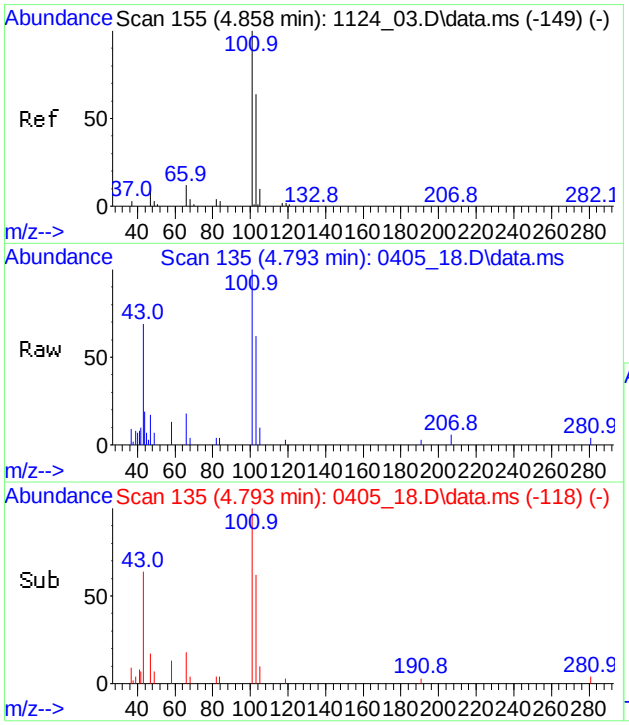




#12
Acetone
Conc: 8$ 50.598 ppbv
RT: 4.696 min Scan# 126
Delta R.T. -0.075 min
Lab File: 0405_18.D
Acq: 5 Apr 2021 8:13 pm

Tgt Ion: 43 Resp: 2217917

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 18.0 | 20.4 | 30.6# |

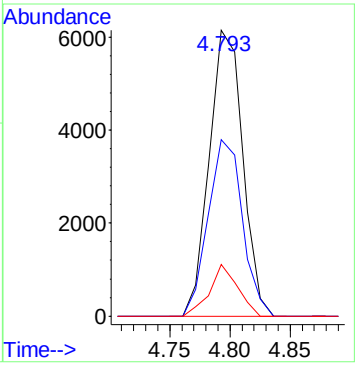


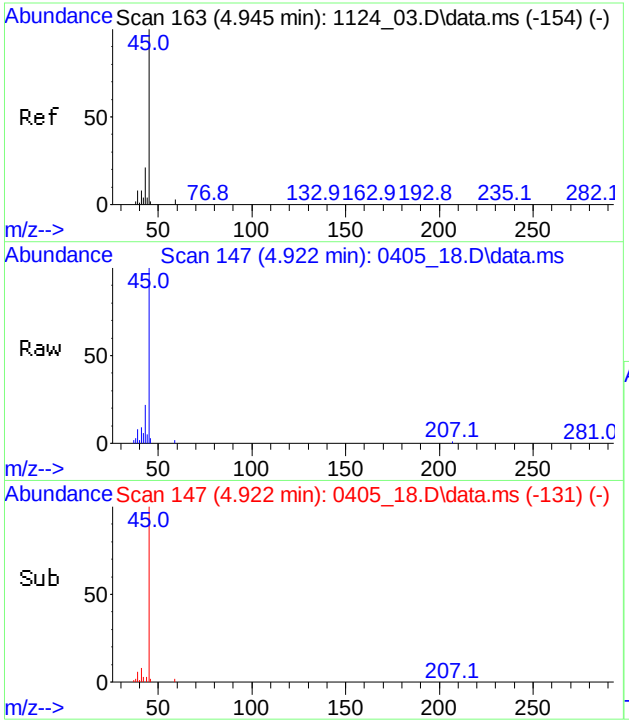



#13
Trichlorofluoromethane
Conc: 8$ 0.267 ppbv
RT: 4.793 min Scan# 135
Delta R.T. -0.021 min
Lab File: 0405_18.D
Acq: 5 Apr 2021 8:13 pm

Tgt Ion:101 Resp: 11854

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 63.3 | 58.3 | 87.5 |
| 66 | 15.2 | 10.1 | 15.1# |

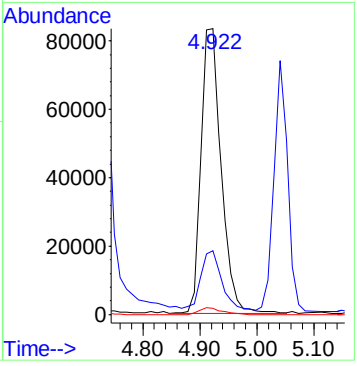


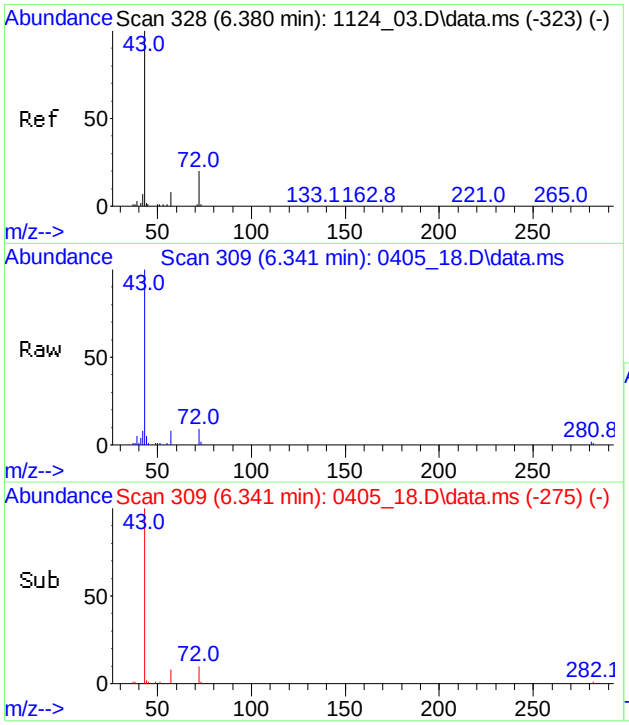




#14
Isopropylalcohol
Conc: 8$ 3.795 ppbv
RT: 4.922 min Scan# 147
Delta R.T. -0.033 min
Lab File: 0405_18.D
Acq: 5 Apr 2021 8:13 pm

Tgt Ion: 45 Resp: 203850

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 22.0 | 20.6 | 31.0 |
| 59 | 2.7 | 2.1 | 3.1 |

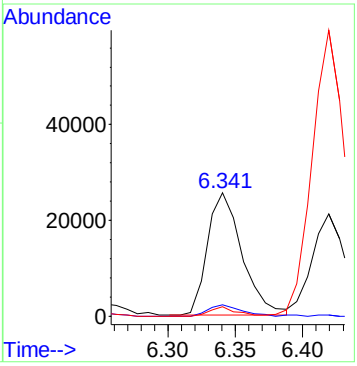


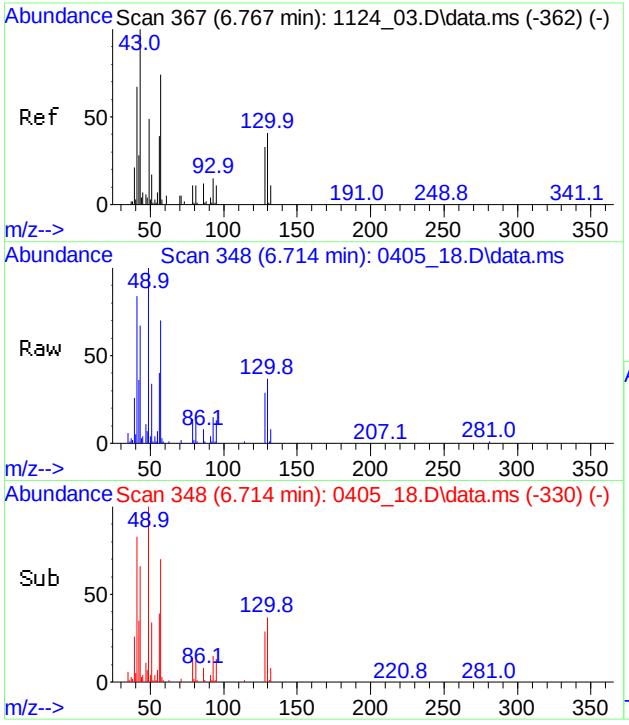



#26
Methyl Ethyl Ketone
Conc: 8$ 0.760 ppbv
RT: 6.341 min Scan# 309
Delta R.T. -0.031 min
Lab File: 0405_18.D
Acq: 5 Apr 2021 8:13 pm

Tgt Ion: 43 Resp: 45669

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 8.8 | 8.8 | 13.2 |
| 57 | 6.0 | 3.0 | 4.6# |

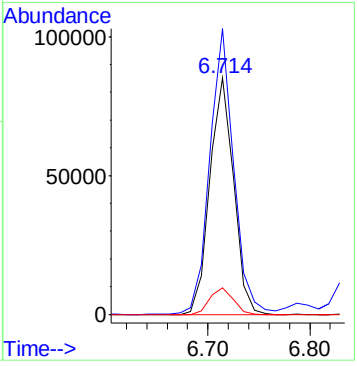


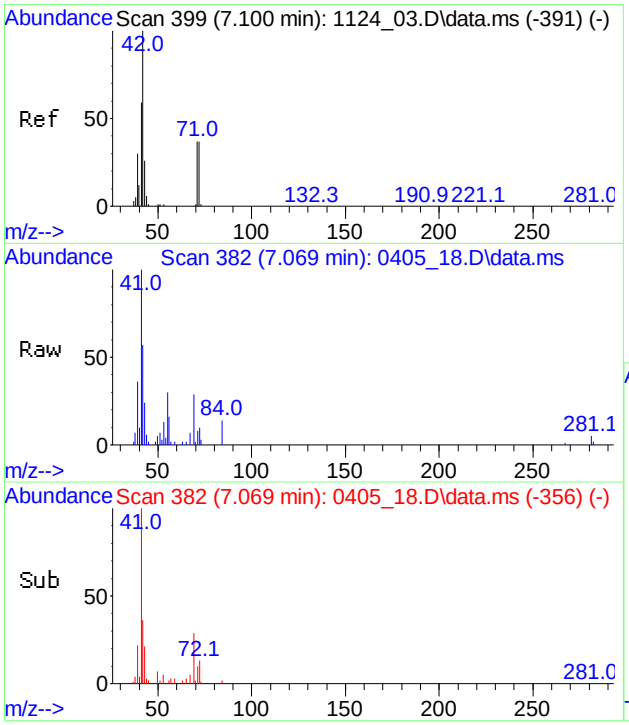




#28
Hexane
Conc: 8$ 4.161 ppbv
RT: 6.714 min Scan# 348
Delta R.T. -0.011 min
Lab File: 0405_18.D
Acq: 5 Apr 2021 8:13 pm

Tgt Ion: 57 Resp: 138443

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 121.9 | 91.8 | 137.8 |
| 86 | 11.0 | 7.4 | 11.2 |

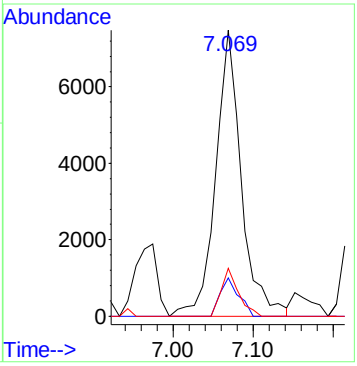


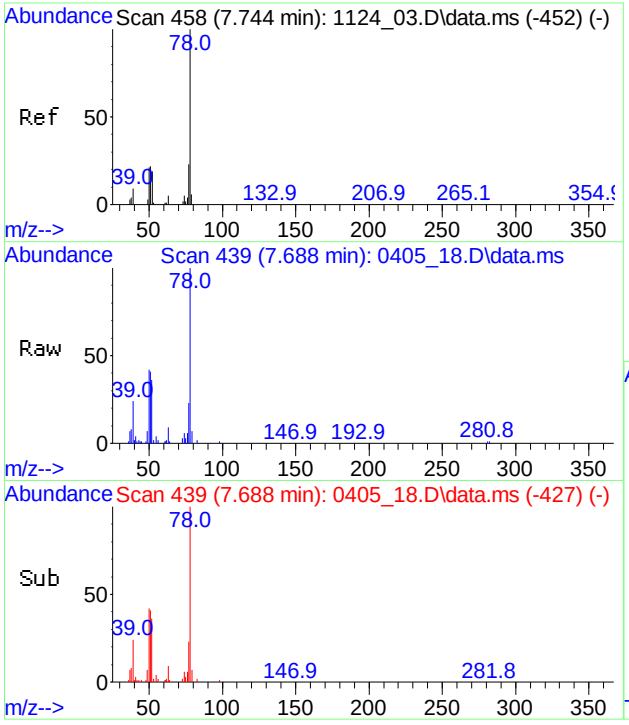



#31
Tetrahydrofuran
Conc: 8$ 0.505 ppbv
RT: 7.069 min Scan# 382
Delta R.T. -0.031 min
Lab File: 0405_18.D
Acq: 5 Apr 2021 8:13 pm

Tgt Ion: 42 Resp: 16457

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 71 | 9.7 | 16.2 | 24.4# |
| 72 | 11.3 | 17.1 | 25.7# |

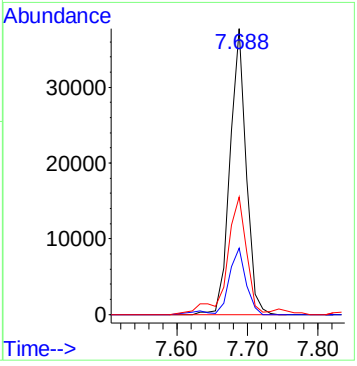


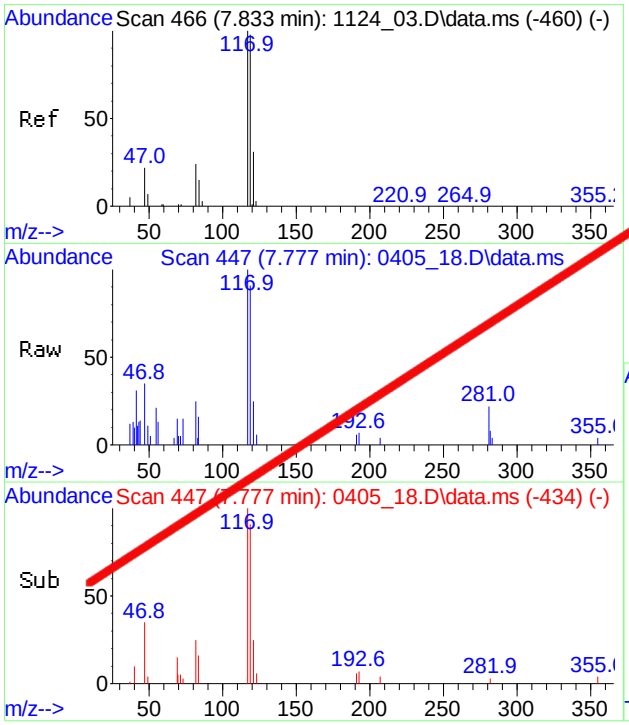




#34
Benzene
Conc: 8$ 1.675 ppbv
RT: 7.688 min Scan# 439
Delta R.T. 0.000 min
Lab File: 0405_18.D
Acq: 5 Apr 2021 8:13 pm

Tgt Ion: 78 Resp: 69376

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 24.8 | 19.7 | 29.5 |
| 51 | 50.2 | 29.8 | 44.6# |

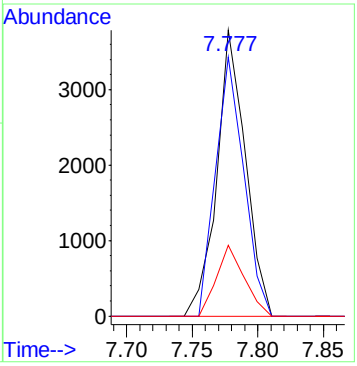


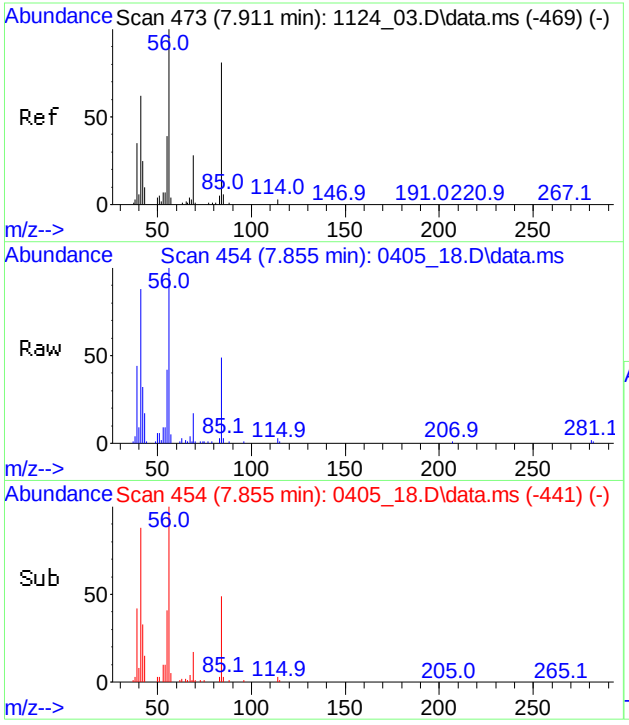



#35
Carbon Tetrachloride
Conc: 8$  Below Cal
RT:  7.777 min  Scan# 447
Delta R.T.  -0.011 min
Lab File:  0405_18.D
Acq:  5 Apr 2021  8:13 pm

Tgt Ion:117 Resp:  5793

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 89.0 | 82.1 | 122.1 |
| 121 | 24.0 | 12.6 | 52.6 |

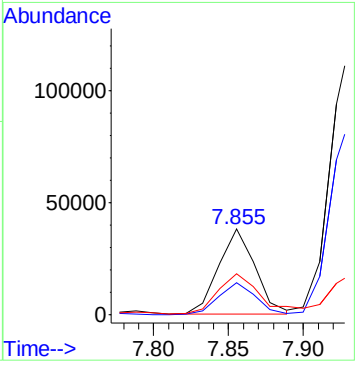


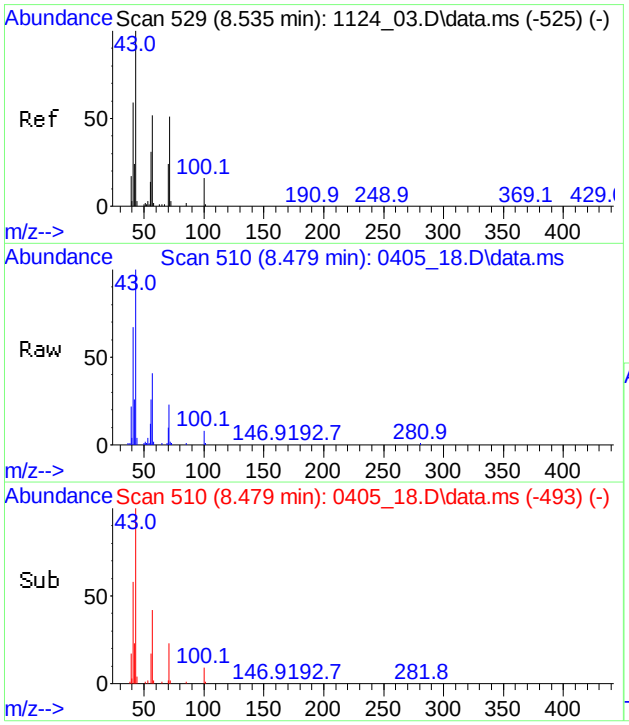




#36
Cyclohexane
Conc: 8$  2.472 ppbv
RT:  7.855 min  Scan# 454
Delta R.T.  0.000 min
Lab File:  0405_18.D
Acq:  5 Apr 2021  8:13 pm

Tgt Ion: 41 Resp:  64359

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 37.6 | 36.9 | 55.3 |
| 55 | 55.6 | 86.2 | 129.4# |

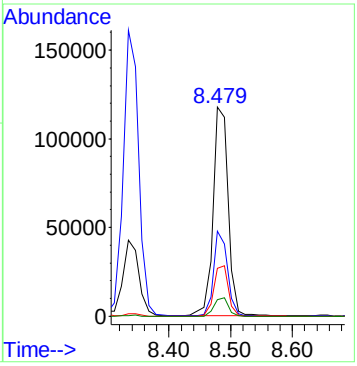


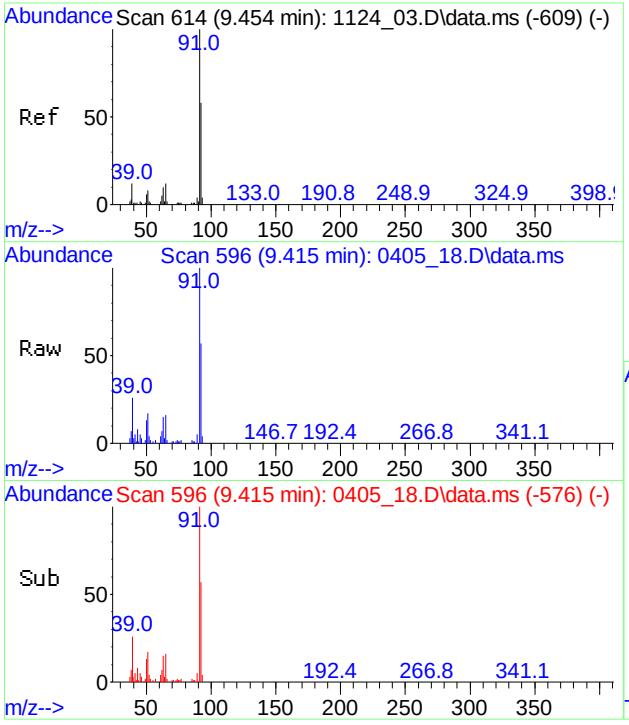



#44
Heptane
Conc: 8$ 3.753 ppbv
RT: 8.479 min Scan# 510
Delta R.T. -0.011 min
Lab File: 0405_18.D
Acq: 5 Apr 2021 8:13 pm

Tgt Ion: 43 Resp: 199802

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 57 | 37.6 | 31.5 | 47.3 |
| 71 | 22.9 | 24.0 | 36.0# |
| 100 | 8.3 | 7.0 | 10.6 |

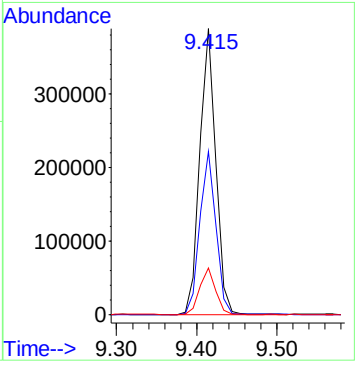


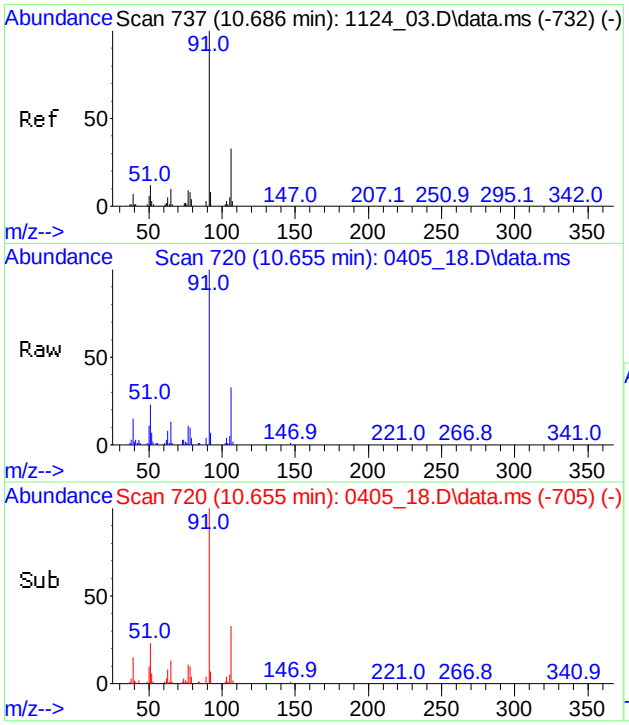




#49
Toluene
Conc: 8$ 10.704 ppbv
RT: 9.415 min Scan# 596
Delta R.T. -0.009 min
Lab File: 0405_18.D
Acq: 5 Apr 2021 8:13 pm

Tgt Ion: 91 Resp: 544553

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 57.4 | 46.8 | 70.2 |
| 65 | 16.1 | 11.5 | 17.3 |

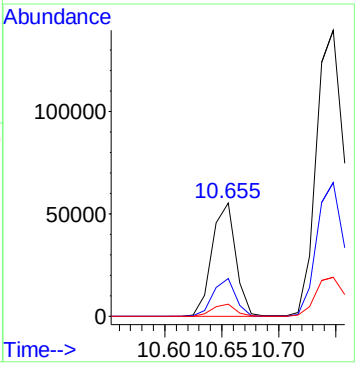


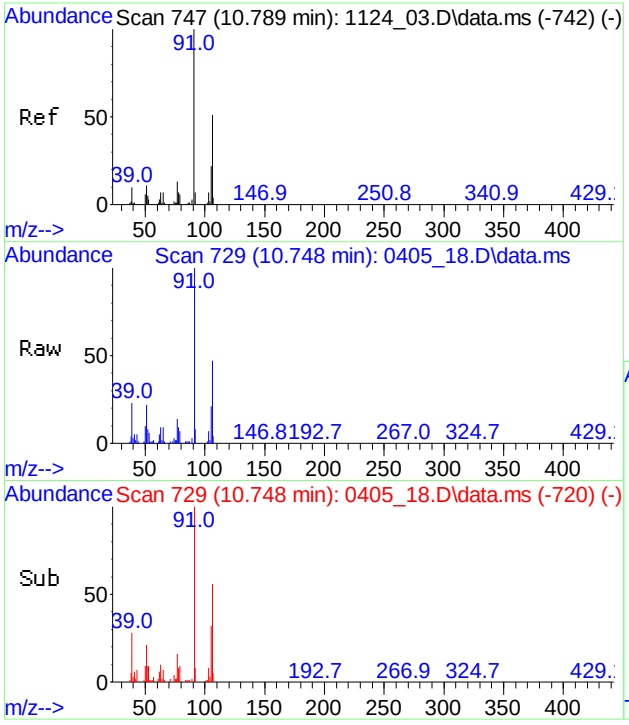



#57
Ethylbenzene
Conc: 8$ 1.189 ppbv
RT: 10.655 min Scan# 720
Delta R.T. 0.000 min
Lab File: 0405_18.D
Acq: 5 Apr 2021 8:13 pm

Tgt Ion: 91 Resp: 79655

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 31.5 | 6.6 | 46.6 |
| 77 | 10.4 | 0.0 | 31.2 |

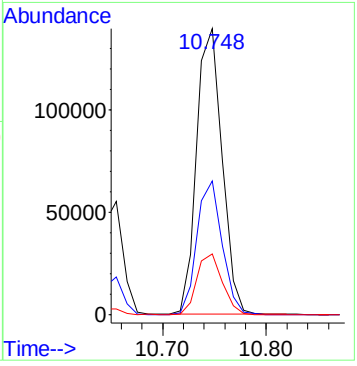


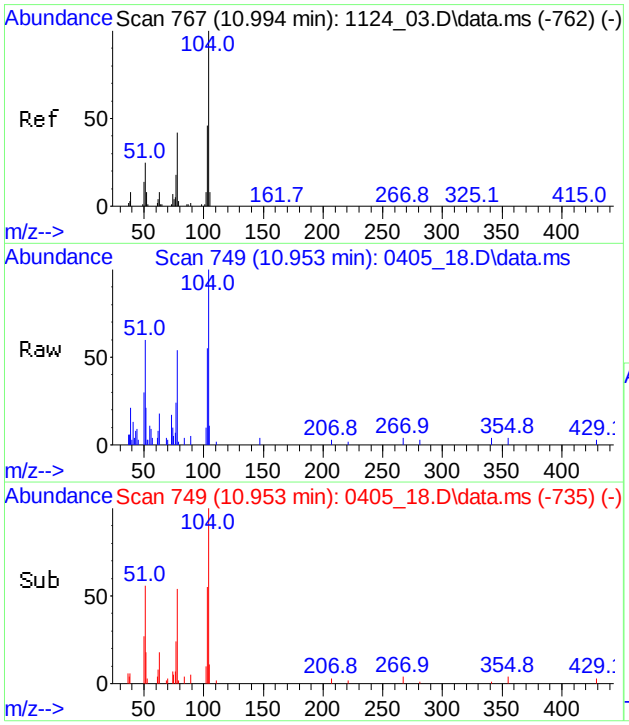




#58
m,p-Xylene
Conc: 8$ 4.681 ppbv
RT: 10.748 min Scan# 729
Delta R.T. -0.010 min
Lab File: 0405_18.D
Acq: 5 Apr 2021 8:13 pm

Tgt Ion: 91 Resp: 238346

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 46.3 | 36.6 | 54.8 |
| 105 | 21.1 | 17.4 | 26.0 |

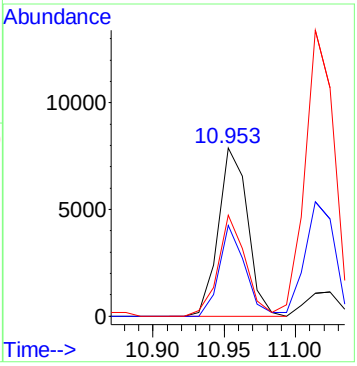


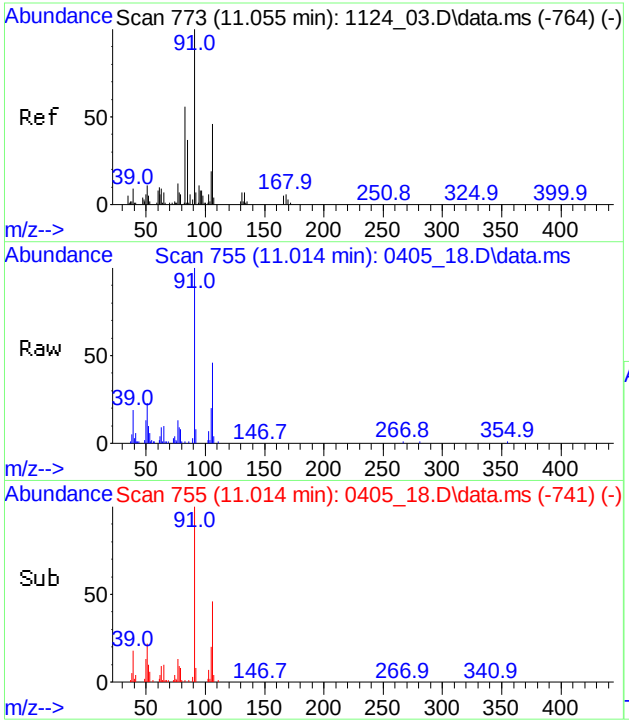



#60
Styrene
Conc: 8$ 0.324 ppbv
RT: 10.953 min Scan# 749
Delta R.T. -0.010 min
Lab File: 0405_18.D
Acq: 5 Apr 2021 8:13 pm

Tgt Ion:104 Resp: 11311

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 47.5 | 37.5 | 56.3 |
| 51 | 56.3 | 41.0 | 61.6 |

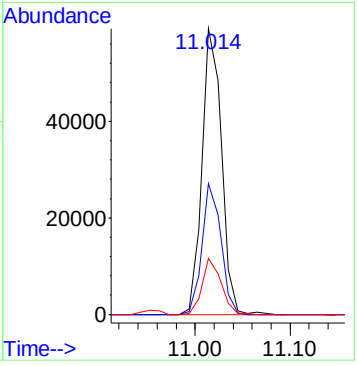


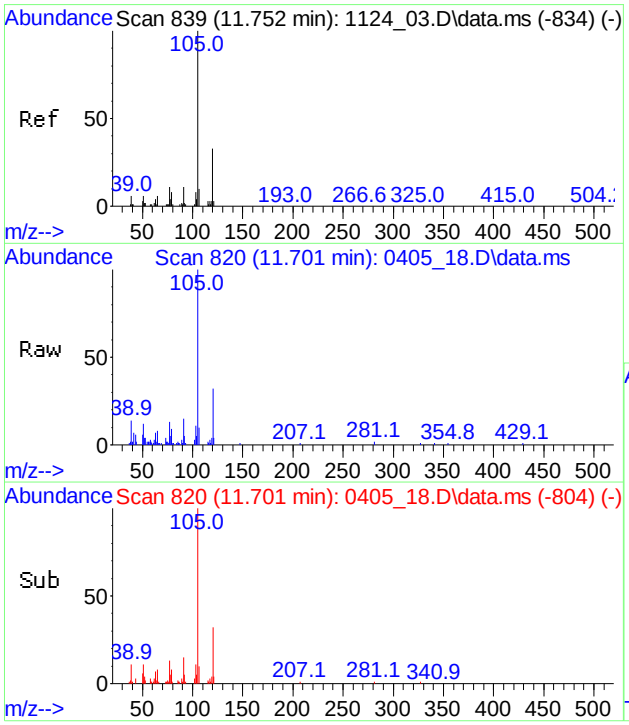




#62
o-Xylene
Conc: 8$ 1.549 ppbv
RT: 11.014 min Scan# 755
Delta R.T. -0.010 min
Lab File: 0405_18.D
Acq: 5 Apr 2021 8:13 pm

Tgt Ion: 91 Resp: 84377

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 44.3 | 41.5 | 62.3 |
| 105 | 19.2 | 15.7 | 23.5 |

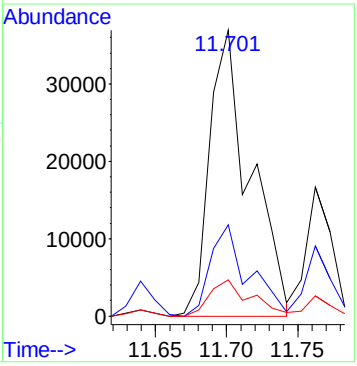


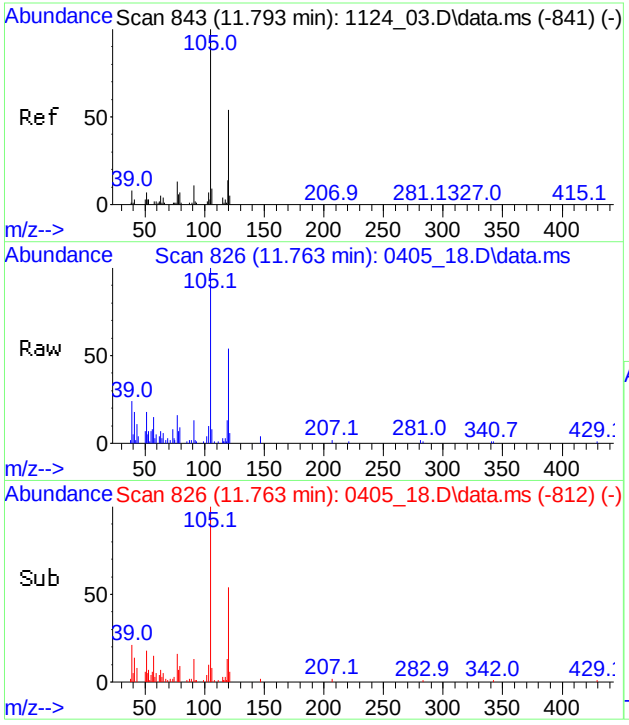



#67
4-Ethyltoluene
Conc: 8$ 0.978 ppbv
RT: 11.701 min Scan# 820
Delta R.T. -0.020 min
Lab File: 0405_18.D
Acq: 5 Apr 2021 8:13 pm

Tgt Ion:105 Resp: 73107

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 29.9 | 24.6 | 36.8 |
| 77 | 12.9 | 11.8 | 17.8 |

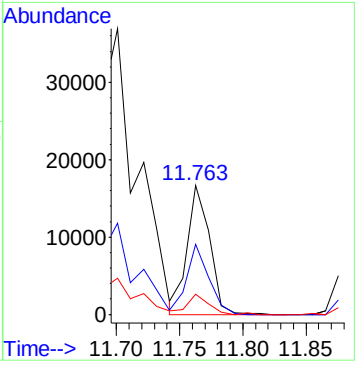


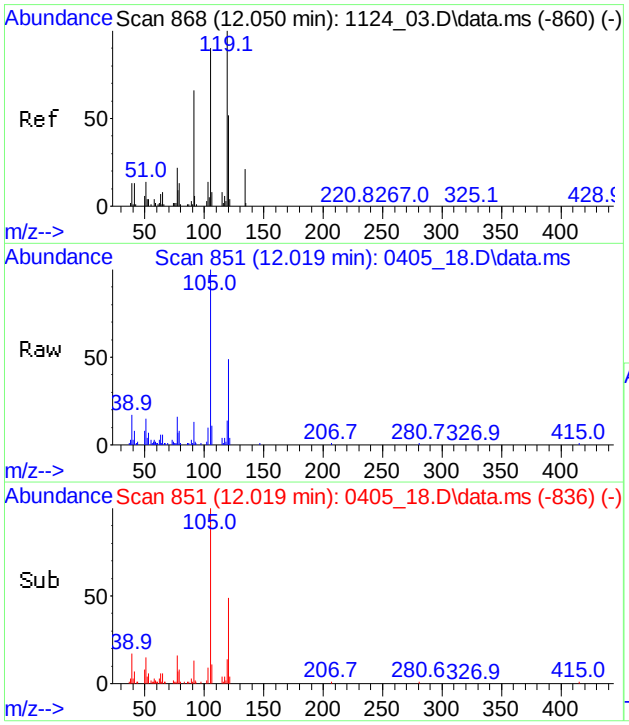




#68
1,3,5-Trimethylbenzene
Conc: 8$ 0.336 ppbv
RT: 11.763 min Scan# 826
Delta R.T. -0.010 min
Lab File: 0405_18.D
Acq: 5 Apr 2021 8:13 pm

Tgt Ion:105 Resp: 20918

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 53.4 | 39.0 | 58.6 |
| 77 | 15.1 | 9.0 | 13.4# |

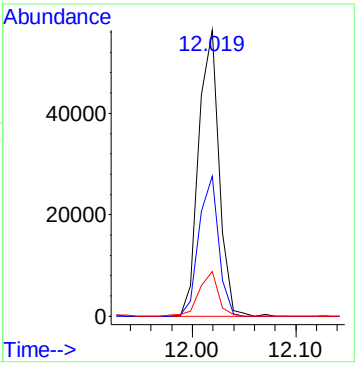


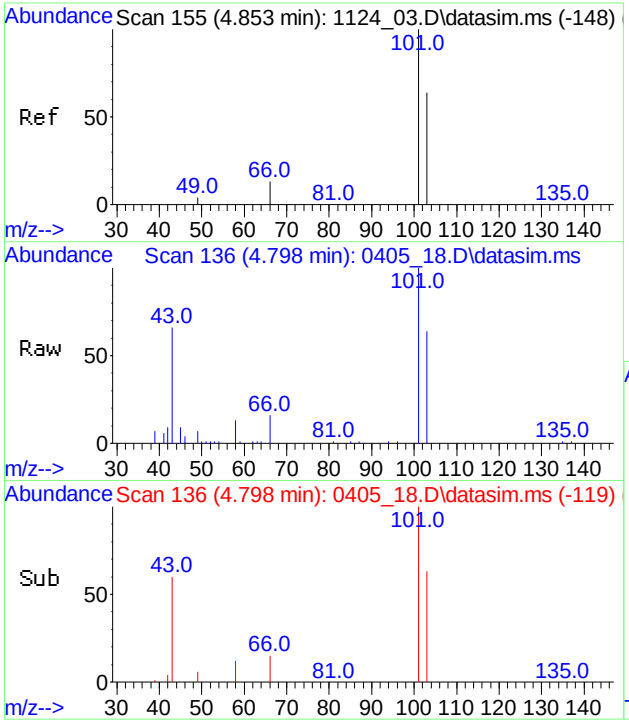



#69
1,2,4-Trimethylbenzene
Conc: 8$ 1.205 ppbv
RT: 12.019 min Scan# 851
Delta R.T. 0.000 min
Lab File: 0405_18.D
Acq: 5 Apr 2021 8:13 pm

Tgt Ion:105 Resp: 76567

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 47.3 | 45.3 | 67.9 |
| 77 | 14.7 | 20.9 | 31.3# |

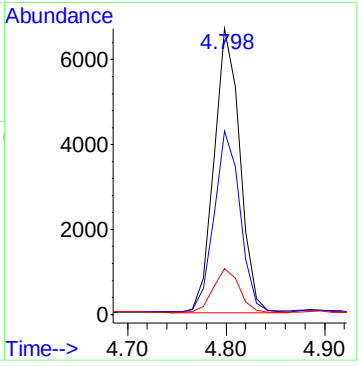


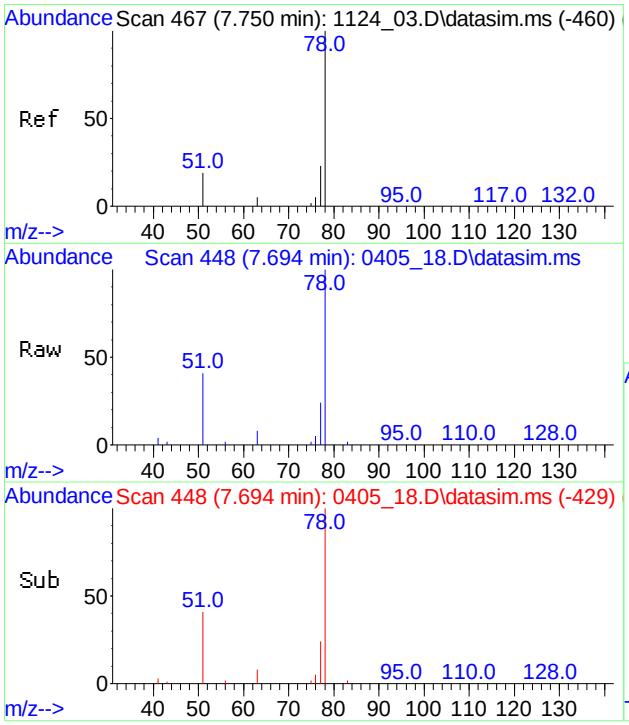




#85
Trichlorofluoromethane(sim)
Conc: 8$ 0.240 ppbv
RT: 4.798 min Scan# 136
Delta R.T. -0.022 min
Lab File: 0405_18.D
Acq: 5 Apr 2021 8:13 pm

Tgt Ion:101 Resp: 12215

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 64.0 | 51.7 | 77.5 |
| 66 | 15.6 | 14.7 | 14.7# |

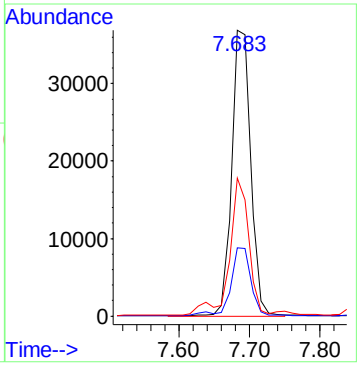


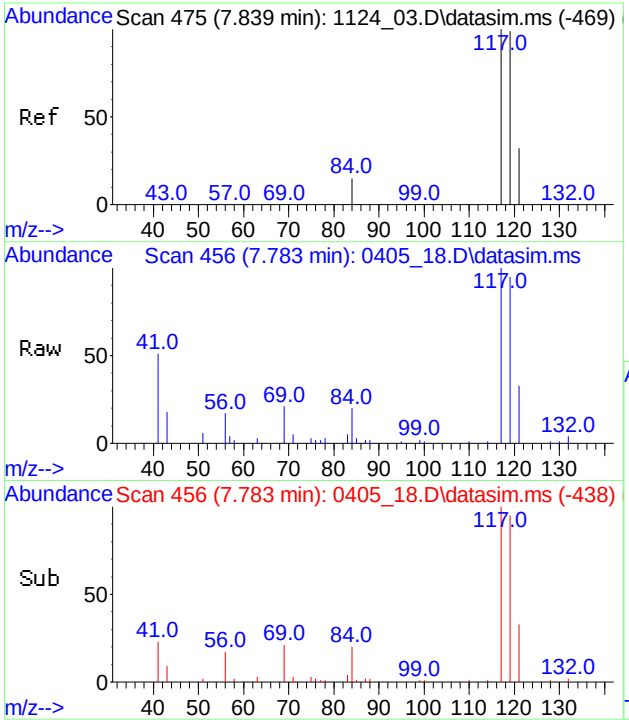



#88
Benzene(sim)
Conc: 8$ 1.636 ppbv
RT: 7.688 min Scan# 448
Delta R.T. 0.000 min
Lab File: 0405_18.D
Acq: 5 Apr 2021 8:13 pm

Tgt Ion: 78 Resp: 69376

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 24.8 | 19.7 | 29.5 |
| 51 | 50.2 | 29.8 | 44.6# |

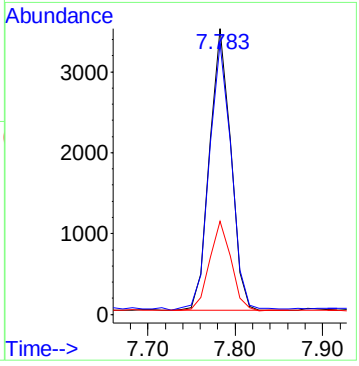


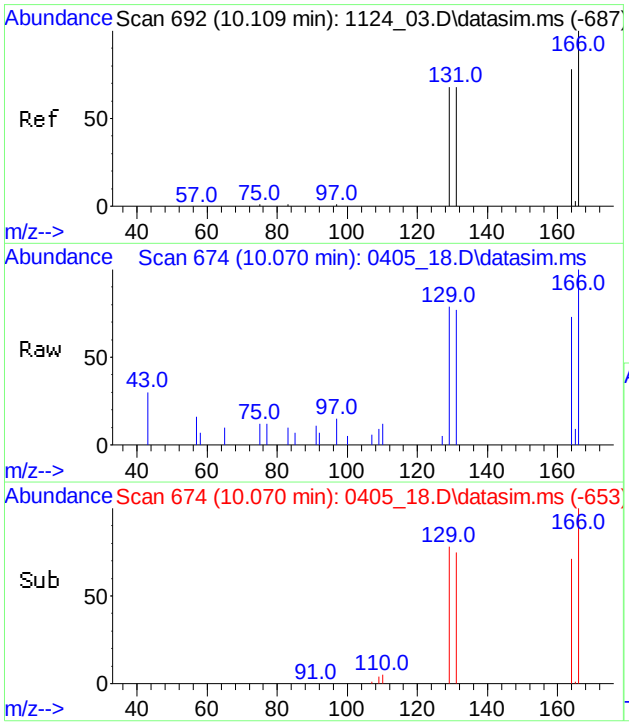




#89
Carbon Tetrachloride(sim)
Conc: 8$ 0.128 ppbv
RT: 7.783 min Scan# 456
Delta R.T. -0.000 min
Lab File: 0405_18.D
Acq: 5 Apr 2021 8:13 pm

Tgt Ion:117 Resp: 5867

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 99.2 | 80.2 | 120.2 |
| 121 | 31.9 | 25.4 | 38.2 |

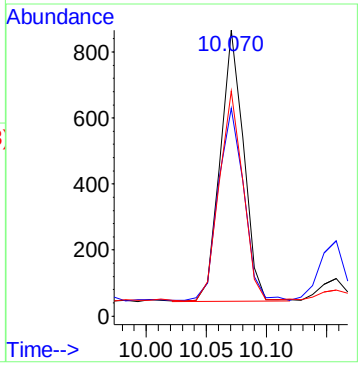


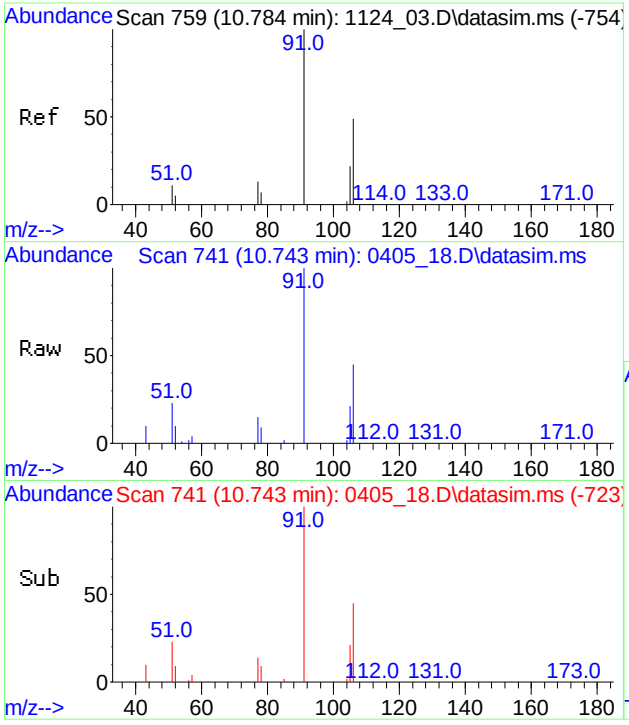



#105
Tetrachloroethene(sim)
Conc: 8$ 0.036 ppbv
RT: 10.070 min Scan# 674
Delta R.T. 0.000 min
Lab File: 0405_18.D
Acq: 5 Apr 2021 8:13 pm

Tgt Ion:166 Resp: 1107

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 164 | 77.6 | 58.1 | 98.1 |
| 129 | 79.0 | 56.6 | 96.6 |

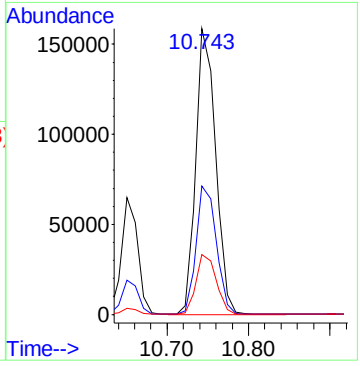



#108
m,p-Xylene(sim)
Conc: 8$ 4.358 ppbv
RT: 10.748 min Scan# 741
Delta R.T. -0.010 min
Lab File: 0405_18.D
Acq: 5 Apr 2021 8:13 pm

Tgt Ion: 91 Resp: 239495

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 46.1 | 41.1 | 50.3 |
| 105 | 21.0 | 17.4 | 26.0 |



1

AIR ANALYSIS DATA SHEET

CLIENT ID: IA-1 5X

Client: GC-ENV Lab: Phoenix Env. Labs

SDG No.: GCH92051 Lab Sample ID: CH92062 5X

Canister: 23345 Lab File ID: 0405_54.D

Instrument: CHEM24 Column: RTX-VMS Date Received: 04/05/21

Purge Volume 200 (cc) Date Analyzed: 04/06/21

Matrix: AIR Dilution Factor: 5

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

| CAS NO. | COMPOUND | CONC. | Q | MDL | PQL | R |
|---|---|---|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 1.01 | U | 1.01 | 1.01 | |
| 74-87-3 | Chloromethane | 2.42 | U | 2.42 | 2.42 | |
| 64-17-5 | Ethanol | 185 | DS | 2.66 | 2.66 | r |
| 67-64-1 | Acetone | 29.6 | DS | 2.11 | 2.11 | r |
| 67-63-0 | Isopropylalcohol | 3.52 | X | 2.04 | 2.04 | |
| 78-93-3 | Methyl Ethyl Ketone | 1.70 | U | 1.70 | 1.70 | |
| 110-54-3 | Hexane | 3.55 | X | 1.42 | 1.42 | |
| 109-99-9 | Tetrahydrofuran | 9.43 | X | 1.70 | 1.70 | |
| 71-43-2 | Benzene | 1.57 | U | 1.57 | 1.57 | |
| 110-82-7 | Cyclohexane | 2.03 | X | 1.45 | 1.45 | |
| 142-82-5 | Heptane | 3.16 | X | 1.22 | 1.22 | |
| 108-88-3 | Toluene | 10.2 | X | 1.33 | 1.33 | |
| 100-41-4 | Ethylbenzene | 1.15 | U | 1.15 | 1.15 | |
| 179601-23-1 | m,p-Xylene | 3.78 | X | 1.15 | 1.15 | |
| 100-42-5 | Styrene | 1.17 | U | 1.17 | 1.17 | |
| 95-47-6 | o-Xylene | 1.30 | X | 1.15 | 1.15 | |
| 622-96-8 | 4-Ethyltoluene | 1.02 | U | 1.02 | 1.02 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | 1.02 | U | 1.02 | 1.02 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | 1.02 | U | 1.02 | 1.02 | |
| 75-69-4 | Trichlorofluoromethane(sim) | 0.890 | U | 0.890 | 0.890 | |
| 56-23-5 | Carbon Tetrachloride(sim) | 0.159 | U | 0.159 | 0.159 | |

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:\AIR2021\CHEM24\04APR\05\
Data File : 0405_54.D
Acq On : 6 Apr 2021 11:38 pm
Operator : Keith
Client ID : IA-1 5X
Lab ID : CH92062 5X
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Apr 07 06:54:21 2021
Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 26 09:02:26 2021
Response via : Initial Calibration

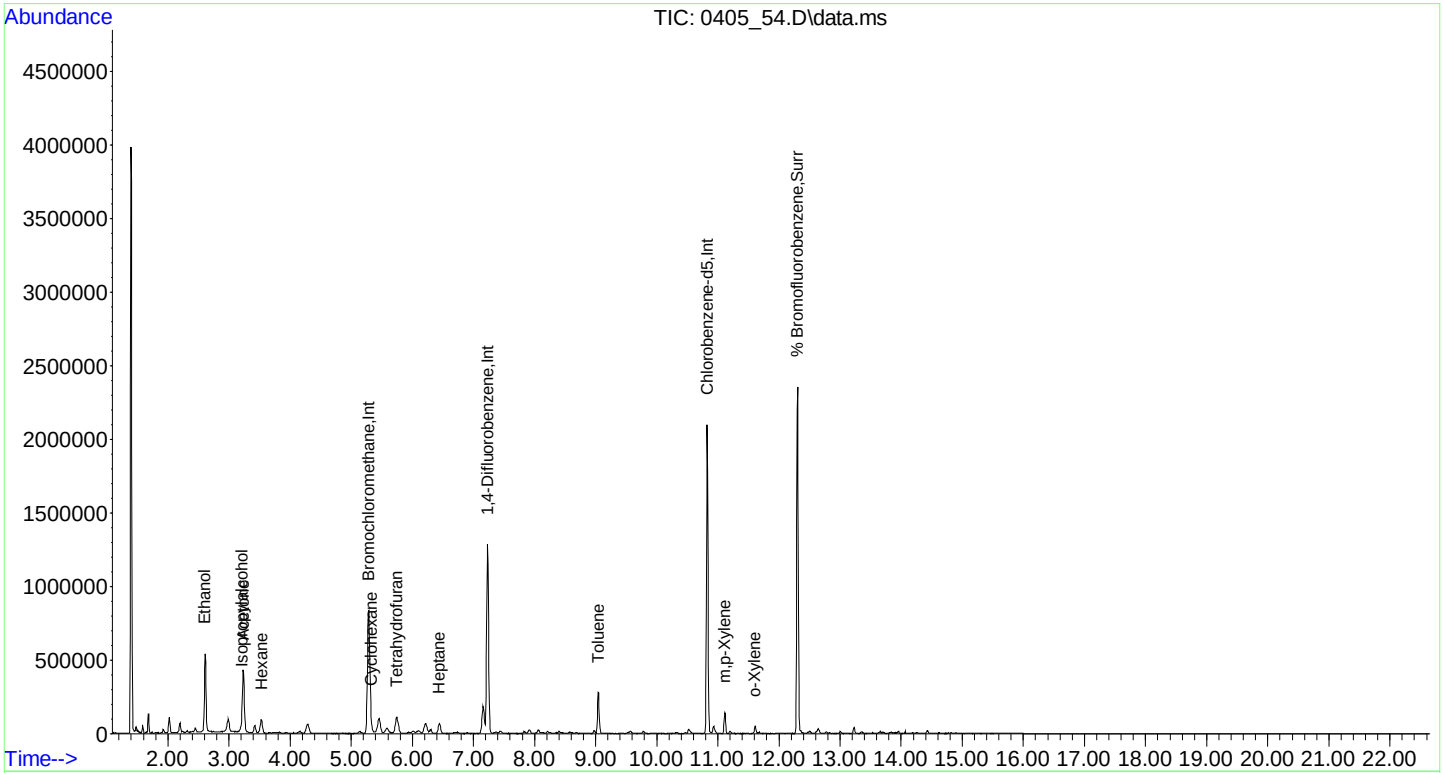
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Bromochloromethane | 5.289 | 130 | 363148 | 10.000 | ng | | 0.02 |
| 36) 1,4-Difluorobenzene | 7.233 | 114 | 1156929 | 10.000 | ng | | 0.00 |
| 53) Chlorobenzene-d5 | 10.825 | 82 | 521263 | 10.000 | ng | | 0.00 |
| 80) Bromochloromethane(sim) | 5.284 | 130 | 373051 | 10.000 | ng | # | 0.02 |
| 95) 1,4-Difluorobenzene(sim) | 7.233 | 114 | 1156929 | 10.000 | ng | | 0.00 |
| 105) Chlorobenzene-d5(sim) | 10.825 | 82 | 521263 | 10.000 | ng | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 62) % Bromofluorobenzene | 12.304 | 95 | 716614 | 9.912 | ppbv | | 0.00 |
| Spiked Amount 10.000 | Range 70 - 130 | | Recovery = | 99.10% | | | |
| Target Compounds | | | | | | | Qvalue |
| 10) Ethanol | 2.608 | 45 | 598476 | 37.092 | ppbv | | 96 |
| 12) Acetone | 3.231 | 43 | 552380 | 5.917 | ppbv | | 95 |
| 14) Isopropylalcohol | 3.217 | 45 | 58222 | 0.703 | ppbv# | | 1 |
| 27) Hexane | 3.532 | 57 | 45992 | 0.710 | ppbv | | 95 |
| 30) Tetrahydrofuran | 5.743 | 41 | 60011 | 1.885 | ppbv# | | 67 |
| 35) Cyclohexane | 5.325 | 56 | 20687 | 0.407 | ppbv | | 98 |
| 43) Heptane | 6.439 | 43 | 52184 | 0.632 | ppbv | | 98 |
| 48) Toluene | 9.048 | 91 | 191506 | 2.032 | ppbv | | 99 |
| 57) m,p-Xylene | 11.113 | 91 | 74432 | 0.757 | ppbv | | 99 |
| 61) o-Xylene | 11.607 | 91 | 25476 | 0.259 | ppbv | | 98 |
| 109] m,p-Xylene(sim) | 11.113 | 91 | 74816 | 0.771 | ppbv | | 99 |
| 110] o-Xylene(sim) | 11.610 | 91 | 27284 | 0.269 | ppb | | 99 |

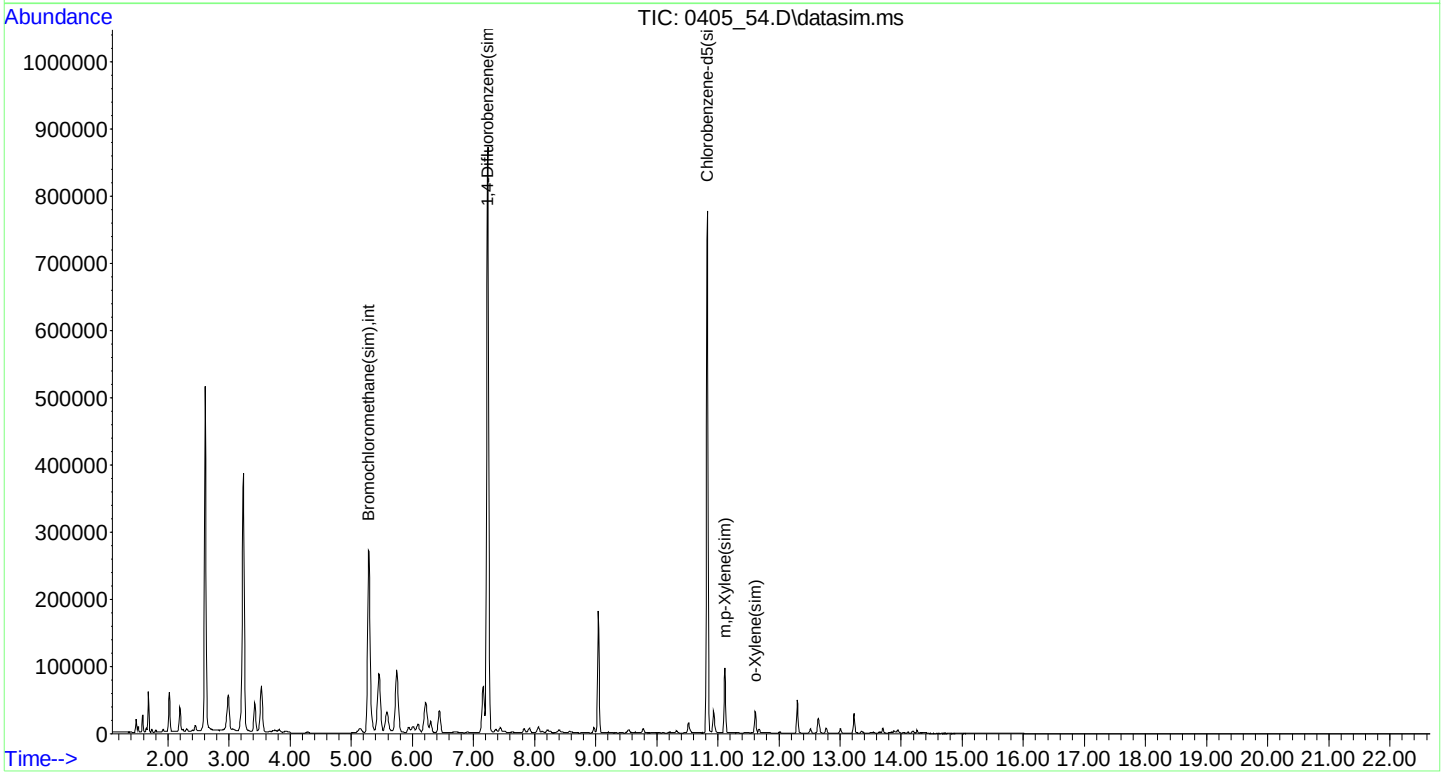
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

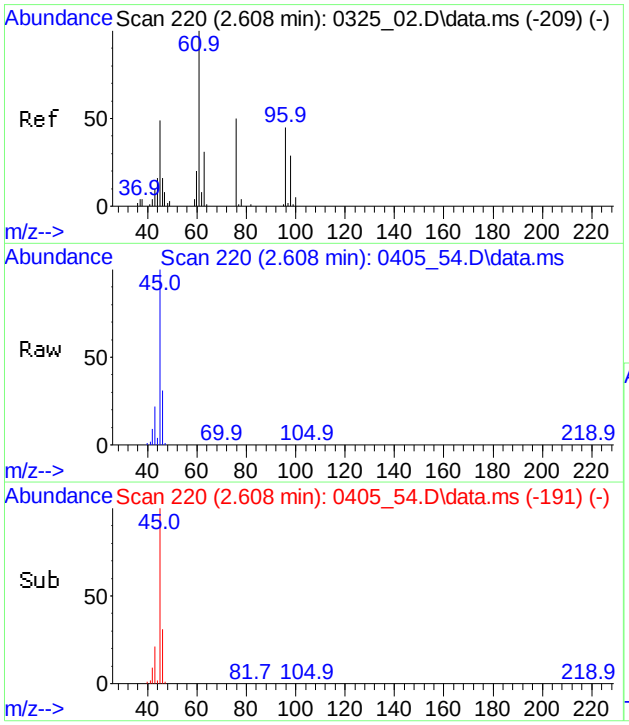
Quantitation Report (QT Reviewed)

Data Path : H:\AIR2021\CHEM24\04APR\05\
Data File : 0405_54.D
Acq On : 6 Apr 2021 11:38 pm
Operator : Keith
Client ID : IA-1 5X
Lab ID : CH92062 5X
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Apr 07 06:54:21 2021
Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 26 09:02:26 2021
Response via : Initial Calibration



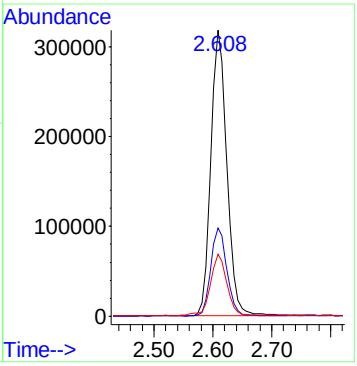



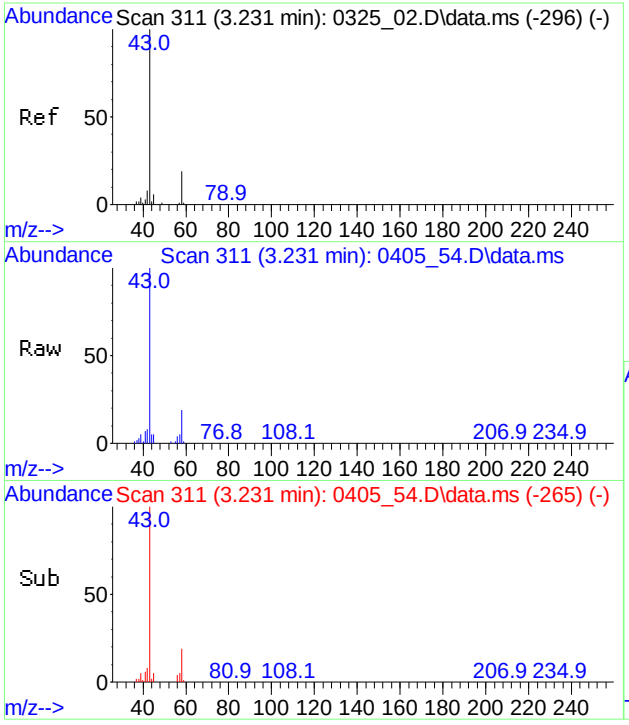



#10
Ethanol
Conc: 8$ 37.092 ppbv
RT: 2.608 min Scan# 220
Delta R.T. 0.013 min
Lab File: 0405_54.D
Acq: 6 Apr 2021 11:38 pm

Tgt Ion: 45 Resp: 598476

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 31.3 | 27.8 | 41.6 |
| 43 | 21.8 | 17.3 | 25.9 |

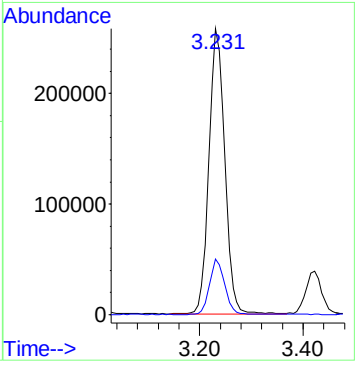


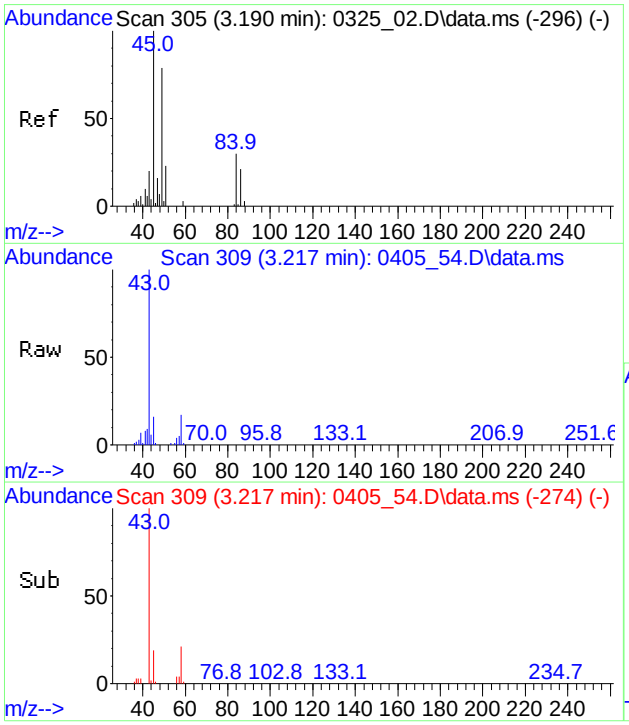




#12
Acetone
Conc: 8$ 5.917 ppbv
RT: 3.231 min Scan# 311
Delta R.T. 0.014 min
Lab File: 0405_54.D
Acq: 6 Apr 2021 11:38 pm

Tgt Ion: 43 Resp: 552380

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 18.5 | 13.2 | 19.8 |

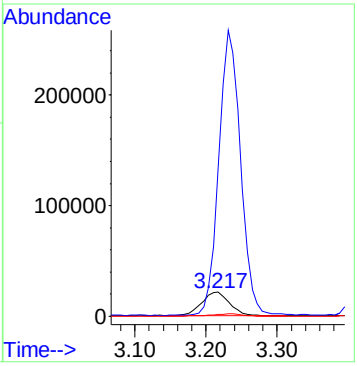


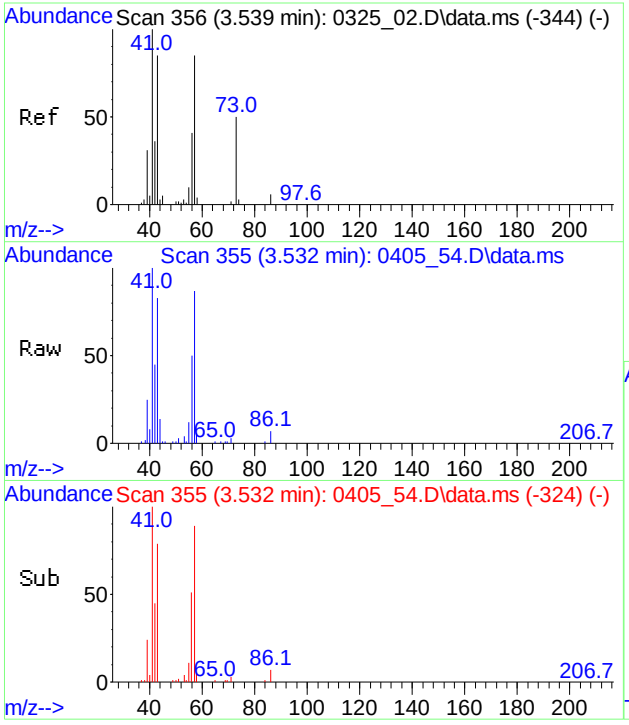



#14
Isopropylalcohol
Conc: 8$ 0.703 ppbv
RT: 3.217 min Scan# 309
Delta R.T. 0.041 min
Lab File: 0405_54.D
Acq: 6 Apr 2021 11:38 pm

Tgt Ion: 45 Resp: 58222

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 948.7 | 84.1 | 126.1# |
| 59 | 9.3 | 2.6 | 4.0# |

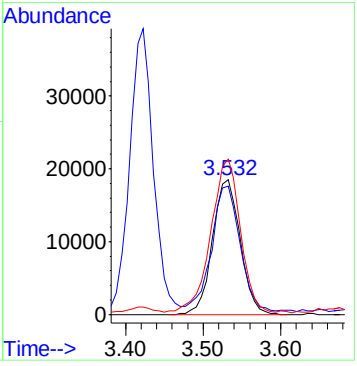


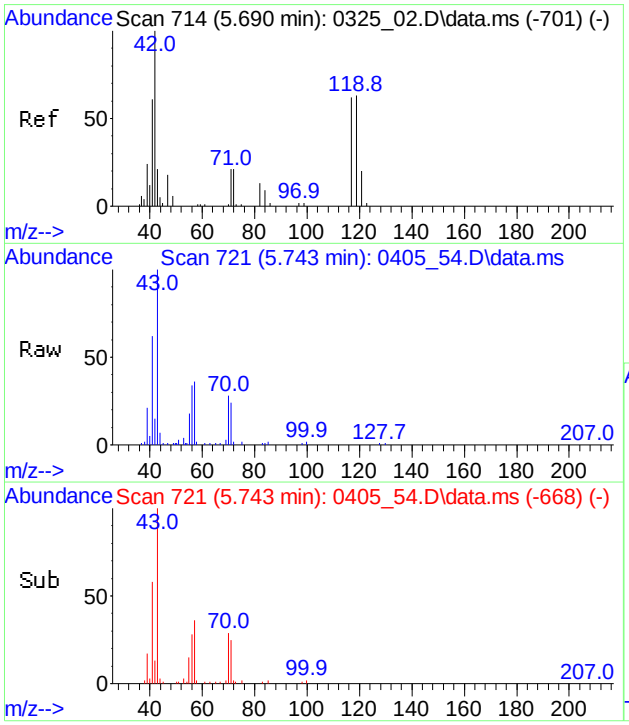




#27
Hexane
Conc: 8$ 0.710 ppbv
RT: 3.532 min Scan# 355
Delta R.T. 0.014 min
Lab File: 0405_54.D
Acq: 6 Apr 2021 11:38 pm

Tgt Ion: 57 Resp: 45992

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 43 | 94.3 | 83.3 | 124.9 |
| 41 | 120.1 | 95.6 | 143.4 |

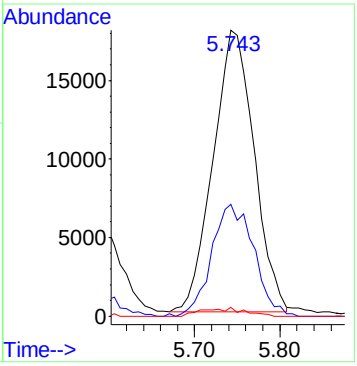


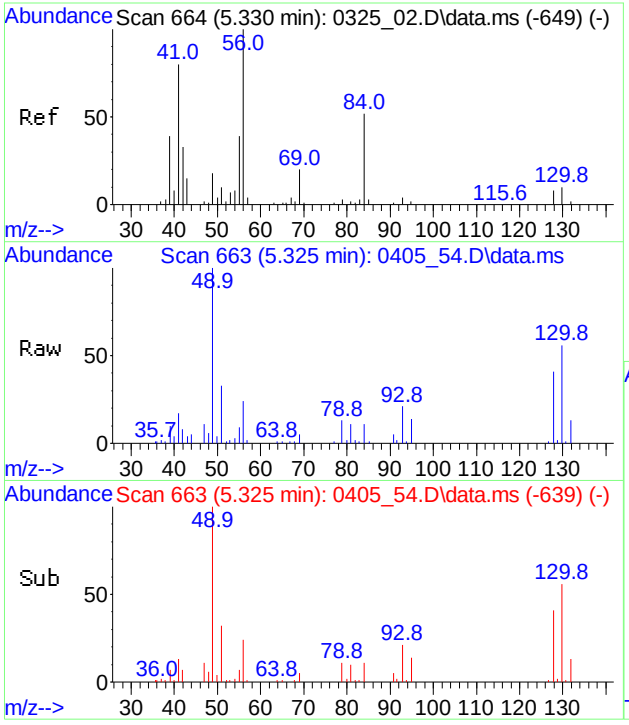



#30
Tetrahydrofuran
Conc: 8$ 1.885 ppbv
RT: 5.743 min Scan# 721
Delta R.T. 0.082 min
Lab File: 0405_54.D
Acq: 6 Apr 2021 11:38 pm

Tgt Ion: 41 Resp: 60011

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 71 | 40.5 | 28.6 | 42.8 |
| 72 | 1.7 | 28.1 | 42.1# |

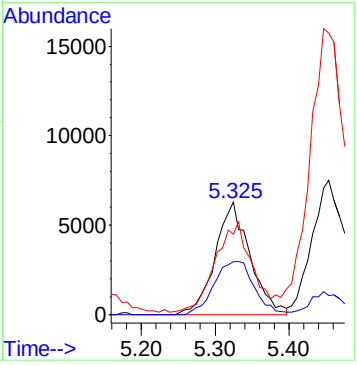


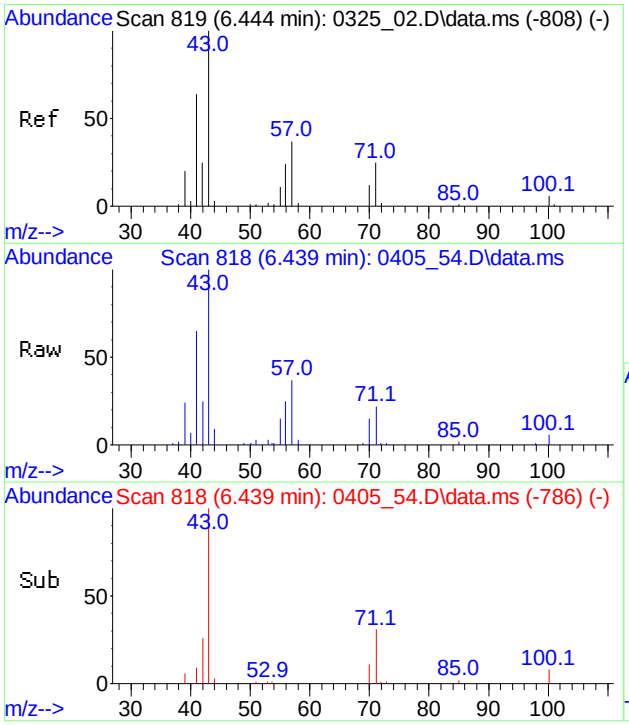




#35
Cyclohexane
Conc: 8$ 0.407 ppbv
RT: 5.325 min Scan# 663
Delta R.T. 0.024 min
Lab File: 0405_54.D
Acq: 6 Apr 2021 11:38 pm

Tgt Ion: 56 Resp: 20687

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 84 | 53.7 | 42.2 | 63.4 |
| 41 | 82.3 | 64.1 | 96.1 |

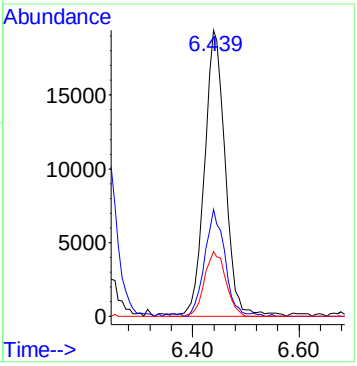


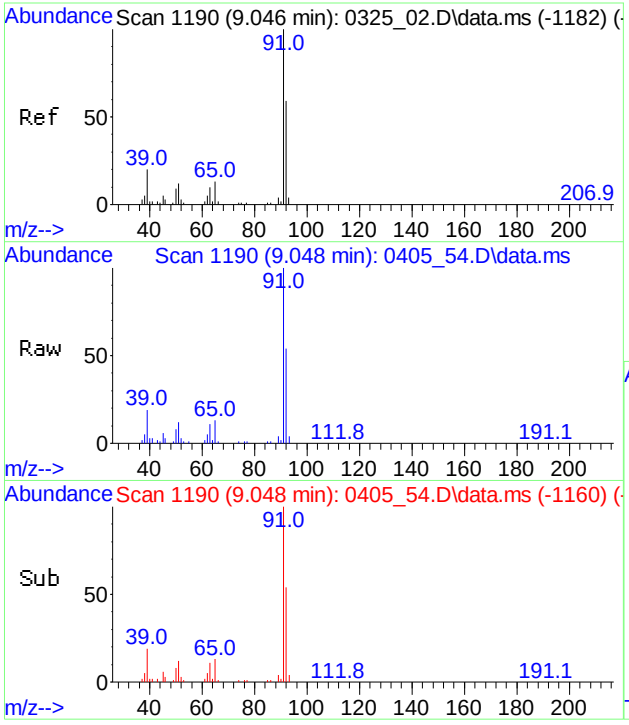



#43
Heptane
Conc: 8$ 0.632 ppbv
RT: 6.439 min Scan# 818
Delta R.T. 0.016 min
Lab File: 0405_54.D
Acq: 6 Apr 2021 11:38 pm

Tgt Ion: 43 Resp: 52184

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 57 | 36.2 | 29.5 | 44.3 |
| 71 | 23.0 | 19.8 | 29.8 |

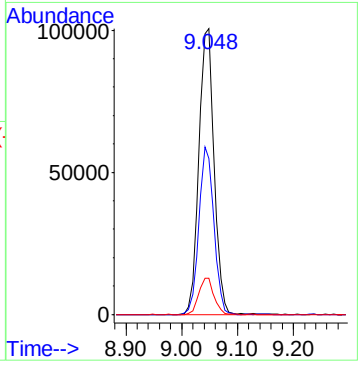


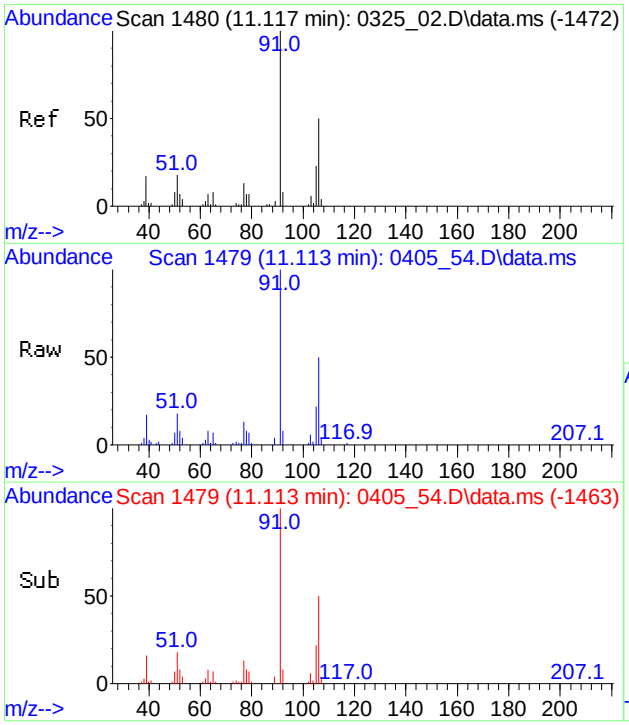




#48
Toluene
Conc: 8$ 2.032 ppbv
RT: 9.048 min Scan# 1190
Delta R.T. 0.016 min
Lab File: 0405_54.D
Acq: 6 Apr 2021 11:38 pm

Tgt Ion: 91 Resp: 191506

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 57.2 | 46.3 | 69.5 |
| 65 | 12.7 | 10.1 | 15.1 |

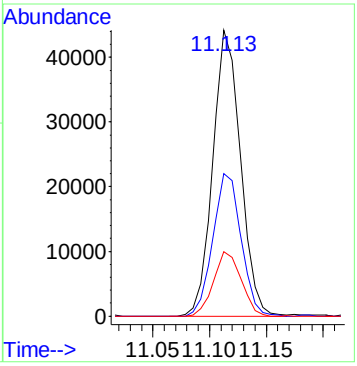


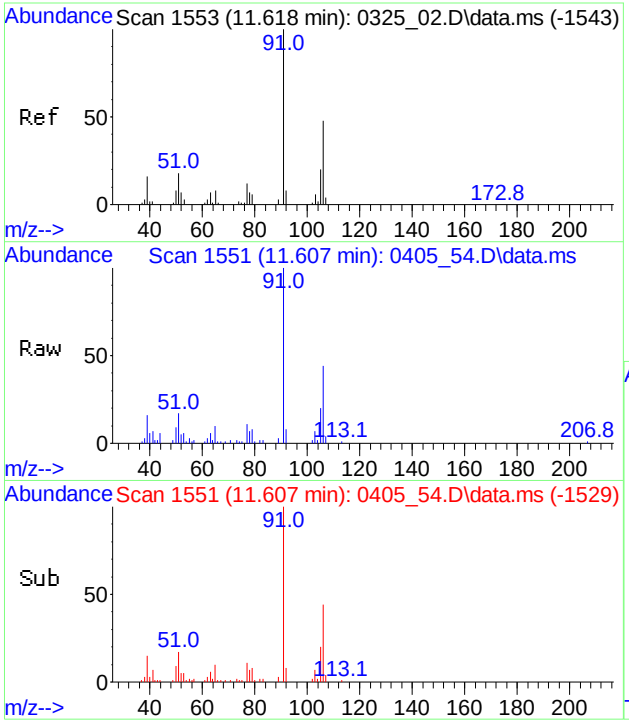



#57
m,p-Xylene
Conc: 8$ 0.757 ppbv
RT: 11.113 min Scan# 1479
Delta R.T. 0.009 min
Lab File: 0405_54.D
Acq: 6 Apr 2021 11:38 pm

Tgt Ion: 91 Resp: 74432

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 50.7 | 39.8 | 59.8 |
| 105 | 22.3 | 18.2 | 27.4 |

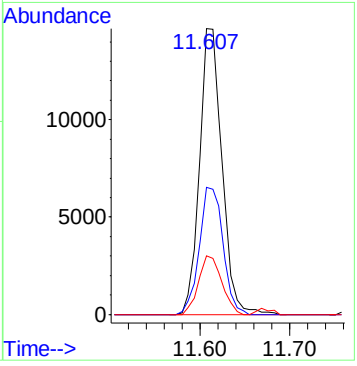


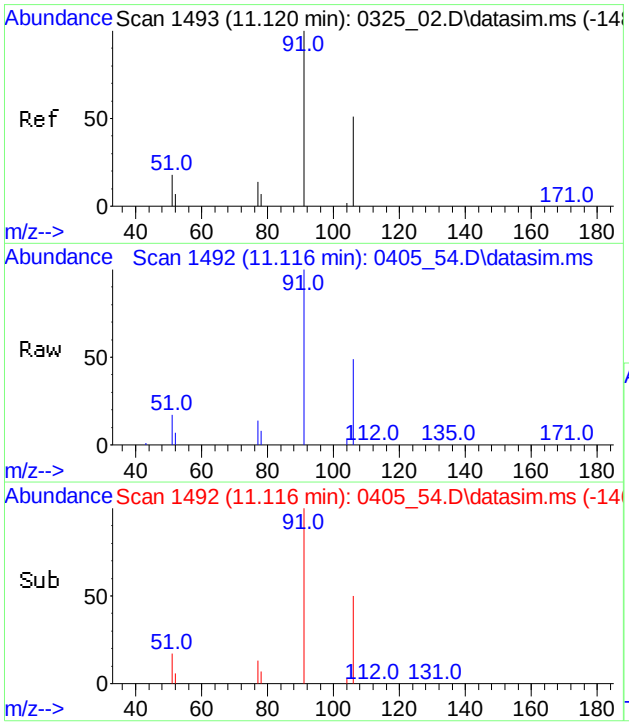




#61
o-Xylene
Conc: 8$ 0.259 ppbv
RT: 11.607 min Scan# 1551
Delta R.T. 0.003 min
Lab File: 0405_54.D
Acq: 6 Apr 2021 11:38 pm

Tgt Ion: 91 Resp: 25476

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 47.0 | 37.5 | 56.3 |
| 105 | 21.3 | 15.1 | 22.7 |

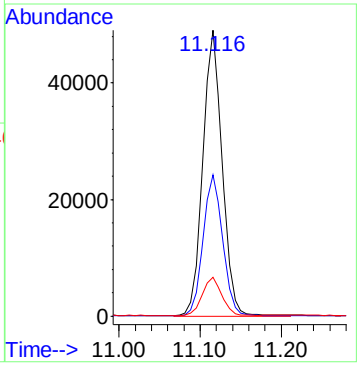


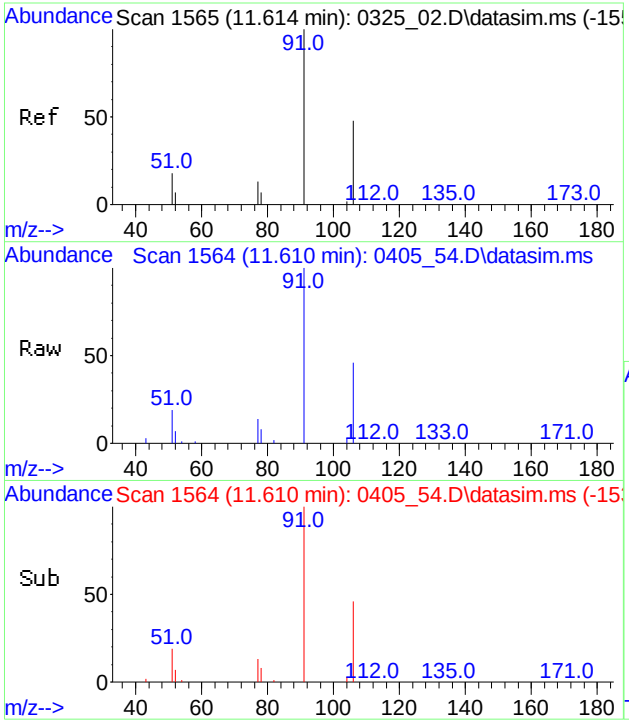



#109
m,p-Xylene(sim)
Conc: 8$ 0.771 ppbv
RT: 11.113 min Scan# 1492
Delta R.T. 0.009 min
Lab File: 0405_54.D
Acq: 6 Apr 2021 11:38 pm

Tgt Ion: 91 Resp: 74816

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 50.5 | 44.8 | 54.8 |
| 77 | 13.4 | 10.5 | 15.7 |

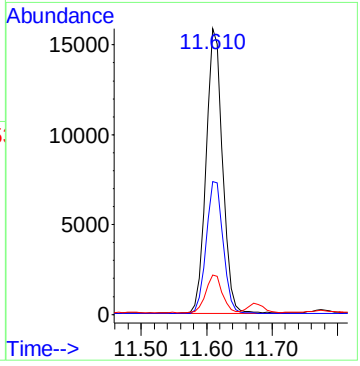



#110
o-Xylene(sim)
Conc: 8$ 0.269 ppb
RT: 11.610 min Scan# 1564
Delta R.T. 0.010 min
Lab File: 0405_54.D
Acq: 6 Apr 2021 11:38 pm

Tgt Ion: 91 Resp: 27284

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 47.6 | 37.6 | 56.4 |
| 77 | 13.3 | 9.8 | 14.8 |



1

AIR ANALYSIS DATA SHEET

CLIENT ID: SS-2

Client: GC-ENV  Lab: Phoenix Env. Labs

SDG No.: GCH92051  Lab Sample ID: CH92063

Canister: 13633  Lab File ID: 0405_52.D

Instrument: CHEM24  Column: RTX-VMS  Date Received: 04/05/21

Purge Volume: 200 (cc)  Date Analyzed: 04/06/21

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 | 0.368 | | 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 | 82.1 | ES | 0.531 | 0.531 | |
| 67-64-1 | Acetone | 44.2 | ES | 0.421 | 0.421 | |
| 67-63-0 | Isopropylalcohol | 29.6 | 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 | 0.691 | | 0.339 | 0.339 | r |
| 110-54-3 | Hexane | 0.374 | S | 0.284 | 0.284 | r |
| 141-78-6 | Ethyl acetate | 0.278 | U | 0.278 | 0.278 | r |
| 109-99-9 | Tetrahydrofuran | 0.339 | U | 0.339 | 0.339 | r |
| 71-55-6 | 1,1,1-Trichloroethane | 10.0 | | 0.183 | 0.183 | r |
| 110-82-7 | Cyclohexane | 0.291 | U | 0.291 | 0.291 | r |
| 123-91-1 | 1,4-Dioxane | 1.50 | | 0.278 | 0.278 | r |
| 142-82-5 | Heptane | 0.302 | | 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 | 1.93 | | 0.266 | 0.266 | r |
| 591-78-6 | 2-Hexanone(MBK) | 0.244 | U | 0.244 | 0.244 | r |
| 127-18-4 | Tetrachloroethene | 7.83 | | 0.037 | 0.037 | r |
| 108-90-7 | Chlorobenzene | 0.217 | U | 0.217 | 0.217 | r |
| 100-41-4 | Ethylbenzene | 0.311 | | 0.230 | 0.230 | r |
| 179601-23-1 | m,p-Xylene | 0.589 | | 0.230 | 0.230 | r |
| 100-42-5 | Styrene | 0.596 | | 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

SS-2

Client: GC-ENV Lab: Phoenix Env. Labs

SDG No.: GCH92051 Lab Sample ID: CH92063

Canister: 13633 Lab File ID: 0405_52.D

Instrument: CHEM24 Column: RTX-VMS Date Received: 04/05/21

Purge Volume 200 (cc) Date Analyzed: 04/06/21

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 |
| 75-69-4 | Trichlorofluoromethane(sim) | 0.195 | | 0.178 | 0.178 | r |
| 71-43-2 | Benzene(sim) | 0.313 | U | 0.313 | 0.313 | r |
| 56-23-5 | Carbon Tetrachloride(sim) | 0.056 | | 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 |
| 10061-01-5 | cis-1,3-Dichloropropene(sim) | 0.221 | U | 0.221 | 0.221 | r |
| 79-00-5 | 1,1,2-Trichloroethane(sim) | 0.183 | U | 0.183 | 0.183 | r |
| 124-48-1 | Dibromochloromethane(sim) | 0.118 | U | 0.118 | 0.118 | r |
| 106-93-4 | 1,2-Dibromoethane(EDB)(sim) | 0.130 | U | 0.130 | 0.130 | r |
| 75-25-2 | Bromoform(sim) | 0.097 | U | 0.097 | 0.097 | r |
| 630-20-6 | 1,1,1,2-Tetrachloroethane(sim) | 0.146 | U | 0.146 | 0.146 | r |
| 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 |
| | | | | | | |
| | | | | | | |
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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:\AIR2021\CHEM24\04APR\05\
Data File : 0405_52.D
Acq On : 6 Apr 2021 10:31 pm
Operator : Keith
Client ID : SS-2
Lab ID : CH92063
ALS Vial : 50 Sample Multiplier: 1

Quant Time: Apr 07 08:26:35 2021
Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 26 09:02:26 2021
Response via : Initial Calibration

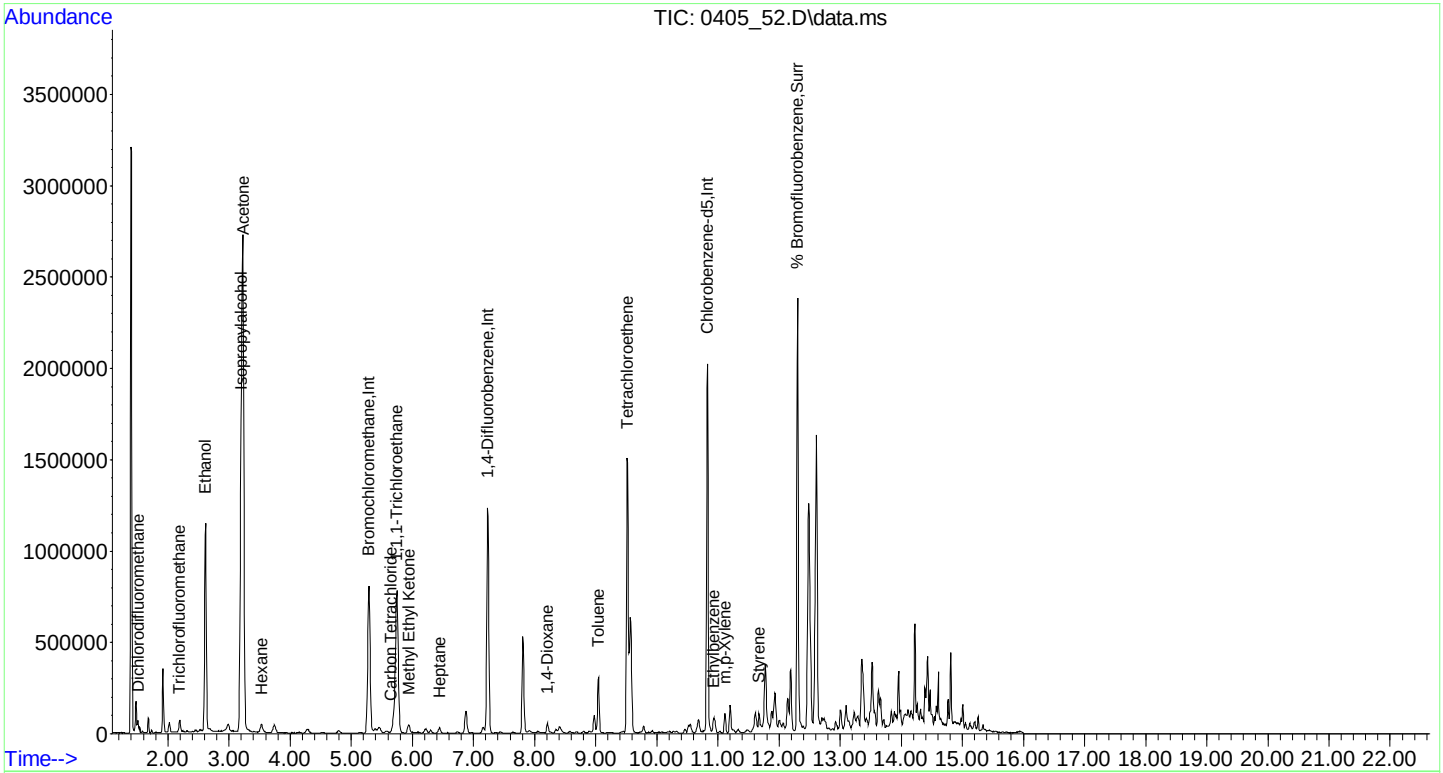
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Bromochloromethane | 5.286 | 130 | 347489 | 10.000 | ng | | 0.02 |
| 36) 1,4-Difluorobenzene | 7.232 | 114 | 1135596 | 10.000 | ng | | 0.00 |
| 53) Chlorobenzene-d5 | 10.830 | 82 | 516489 | 10.000 | ng | | 0.01 |
| 80) Bromochloromethane(sim) | 5.289 | 130 | 360816 | 10.000 | ng | # | 0.02 |
| 95) 1,4-Difluorobenzene(sim) | 7.232 | 114 | 1135596 | 10.000 | ng | | 0.00 |
| 105) Chlorobenzene-d5(sim) | 10.830 | 82 | 516489 | 10.000 | ng | | 0.01 |
| System Monitoring Compounds | | | | | | | |
| 62) % Bromofluorobenzene | 12.303 | 95 | 710669 | 9.921 | ppbv | | 0.00 |
| Spiked Amount 10.000 | Range 70 - 130 | | Recovery = | 99.20% | | | |
| Target Compounds | | | | | | | Qvalue |
| 3) Dichlorodifluoromethane | 1.513 | 85 | 23322 | 0.368 | ppbv | | 99 |
| 10) Ethanol | 2.615 | 45 | 1268249 | 82.145 | ppbv | | 96 |
| 12) Acetone | 3.231 | 43 | 3946804 | 44.183 | ppbv | | 98 |
| 13) Trichlorofluoromethane | 2.184 | 101 | 18940 | 0.213 | ppbv | | 96 |
| 14) Isopropylalcohol | 3.197 | 45 | 2346260 | 29.618 | ppbv# | | 41 |
| 25) Methyl Ethyl Ketone | 5.942 | 43 | 63673 | 0.691 | ppbv# | | 98 |
| 27) Hexane | 3.532 | 57 | 23219 | 0.374 | ppbv | | 97 |
| 32) 1,1,1-Trichloroethane | 5.748 | 97 | 726708 | 10.039 | ppbv | | 92 |
| 34) Carbon Tetrachloride | 5.654 | 117 | 5173 | 0.062 | ppbv | | 96 |
| 39) Trichloroethene | 7.170 | 130 | 1506 | 0.033 | ppbv | | 85 |
| 41) 1,4-Dioxane | 8.209 | 88 | 22998 | 1.500 | ppbv# | | 98 |
| 43) Heptane | 6.444 | 43 | 24512 | 0.302 | ppbv | | 92 |
| 48) Toluene | 9.047 | 91 | 178793 | 1.932 | ppbv | | 98 |
| 52) Tetrachloroethene | 9.516 | 166 | 433629 | 7.829 | ppbv | | 98 |
| 56) Ethylbenzene | 10.933 | 91 | 40340 | 0.311 | ppbv | | 100 |
| 57) m,p-Xylene | 11.118 | 91 | 57363 | 0.589 | ppbv | | 98 |
| 59) Styrene | 11.674 | 104 | 41674 | 0.596 | ppbv | | 99 |
| 84] Trichlorofluoromethane... | 2.187 | 101 | 20053 | 0.195 | ppbv | | 99 |
| 85] 1,1,1-Trichloroethane(... | 5.748 | 97 | 726708 | 9.554 | ppbv# | | 92 |
| 87] Carbon Tetrachloride(sim) | 5.654 | 117 | 4886 | 0.056 | ppbv | | 92 |
| 98] Trichloroethene(sim) | 7.173 | 130 | 1671 | 0.033 | ppbv | | 98 |
| 99] 1,4-Dioxane(sim) | 8.209 | 88 | 22998 | 1.502 | ppbv | | 98 |
| 104] Tetrachloroethene(sim) | 9.519 | 166 | 452126 | 7.613 | ppbv | | 99 |
| 108] Ethylbenzene(sim) | 10.929 | 91 | 43735 | 0.310 | ppb | | 99 |
| 109] m,p-Xylene(sim) | 11.118 | 91 | 57563 | 0.598 | ppbv | | 98 |

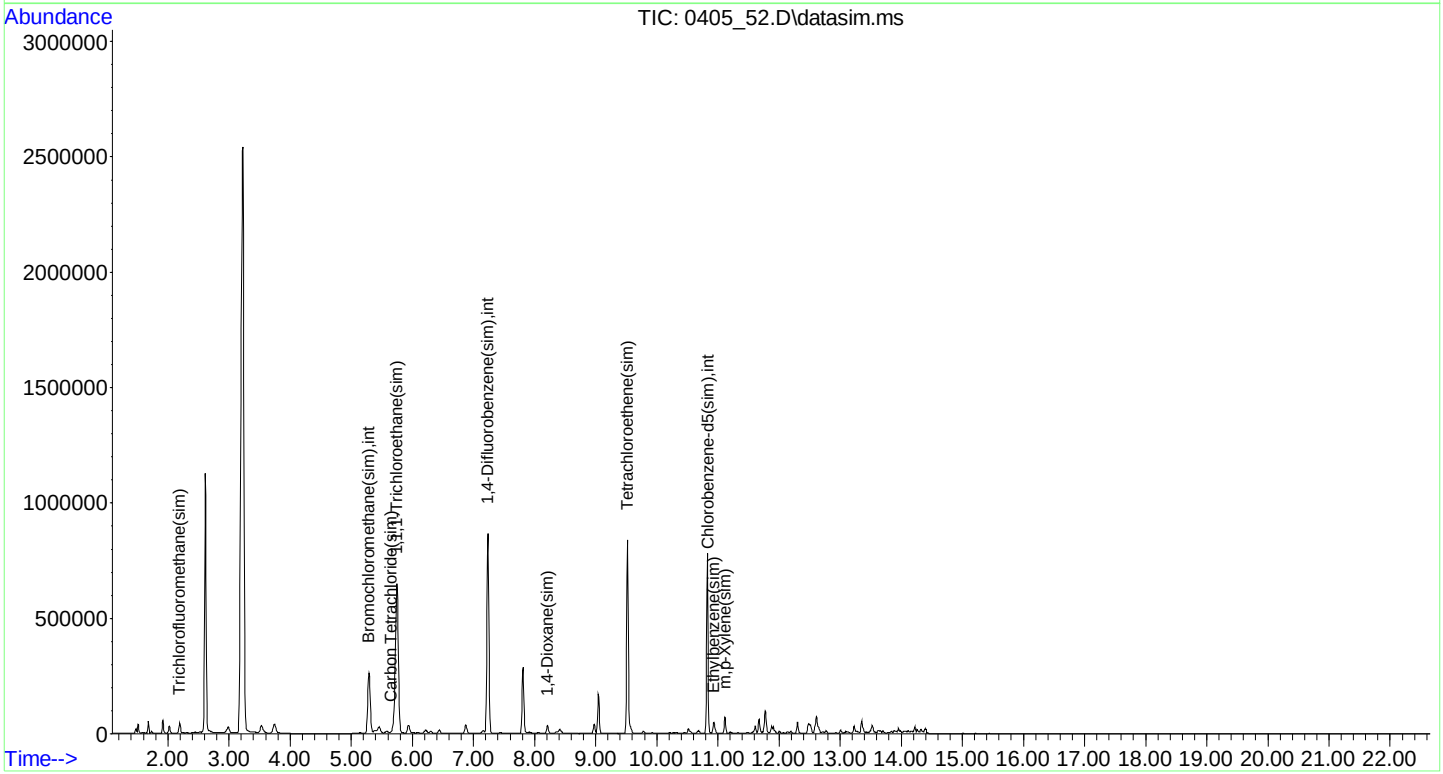
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

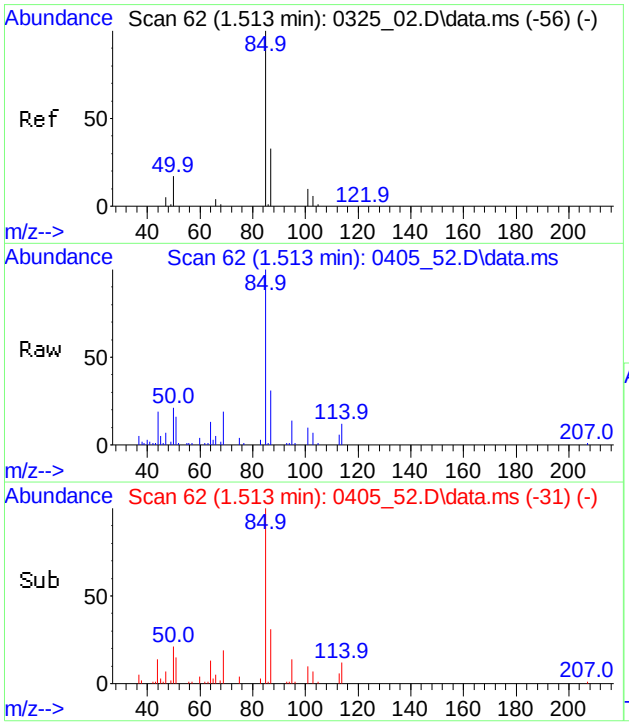
Quantitation Report (QT Reviewed)

Data Path : H:\AIR2021\CHEM24\04APR\05\
Data File : 0405_52.D
Acq On : 6 Apr 2021 10:31 pm
Operator : Keith
Client ID : SS-2
Lab ID : CH92063
ALS Vial : 50 Sample Multiplier: 1

Quant Time: Apr 07 08:26:35 2021
Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 26 09:02:26 2021
Response via : Initial Calibration



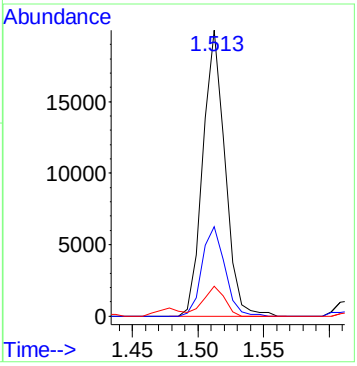



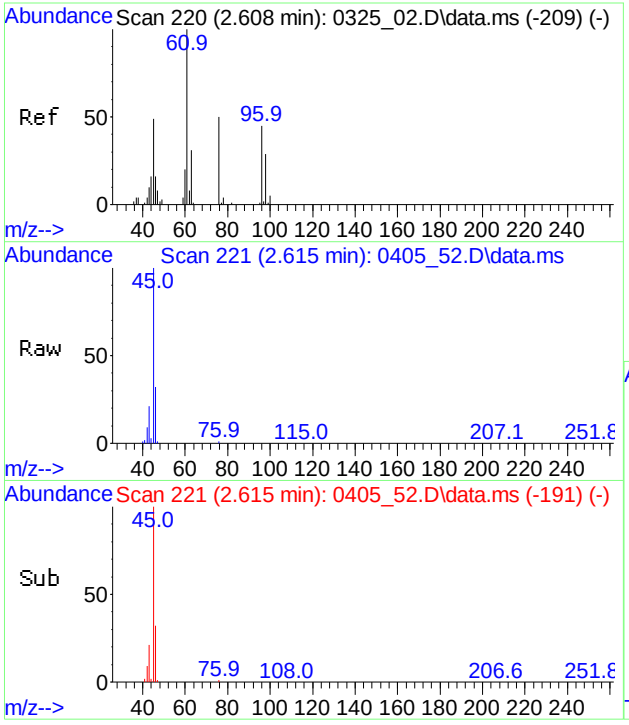



#3
Dichlorodifluoromethane
Conc: 8$ 0.368 ppbv
RT: 1.513 min Scan# 62
Delta R.T. 0.014 min
Lab File: 0405_52.D
Acq: 6 Apr 2021 10:31 pm

Tgt Ion: 85 Resp: 23322

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 32.2 | 26.6 | 40.0 |
| 101 | 9.9 | 7.9 | 11.9 |

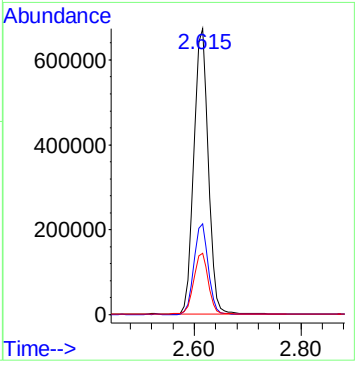


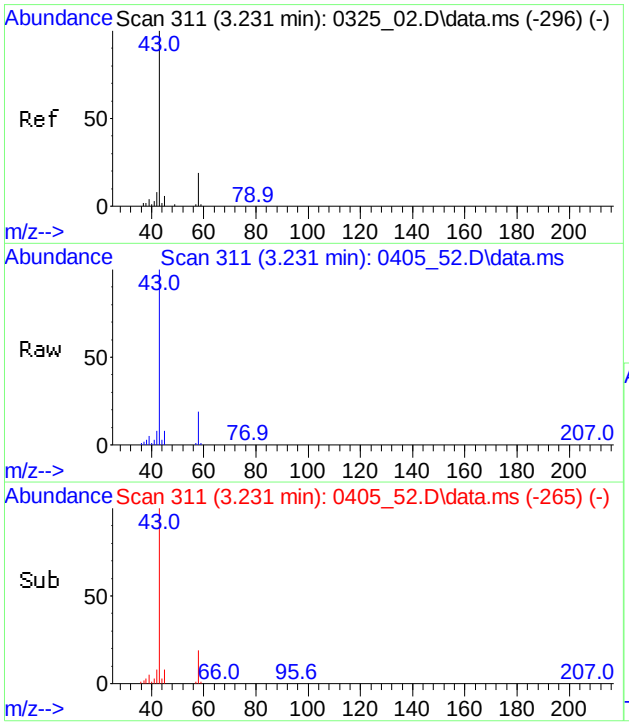




#10
Ethanol
Conc: 8$ 82.145 ppbv
RT: 2.615 min Scan# 221
Delta R.T. 0.020 min
Lab File: 0405_52.D
Acq: 6 Apr 2021 10:31 pm

Tgt Ion: 45 Resp: 1268249

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 31.3 | 27.8 | 41.6 |
| 43 | 21.7 | 17.3 | 25.9 |

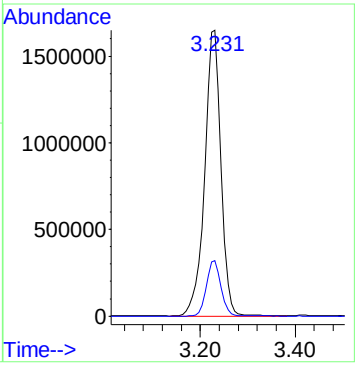


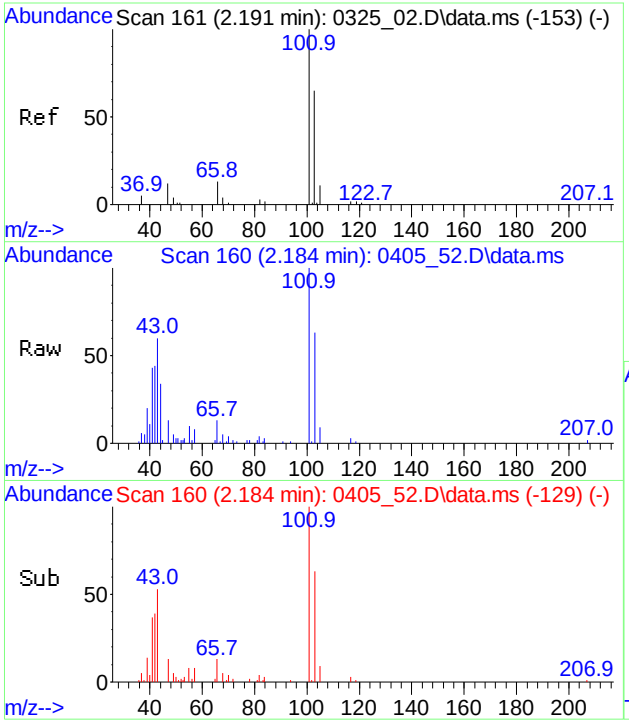



#12
Acetone
Conc: 8$ 44.183 ppbv
RT: 3.231 min Scan# 311
Delta R.T. 0.014 min
Lab File: 0405_52.D
Acq: 6 Apr 2021 10:31 pm

Tgt Ion: 43 Resp: 3946804

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 17.4 | 13.2 | 19.8 |

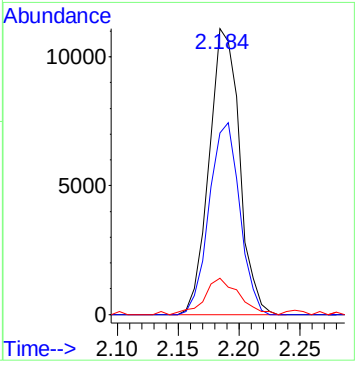


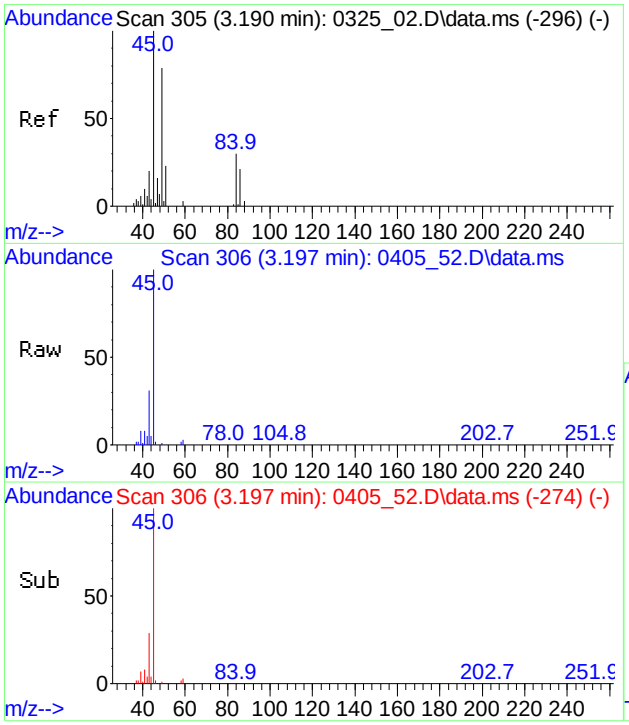




#13
Trichlorofluoromethane
Conc: 8$ 0.213 ppbv
RT: 2.184 min Scan# 160
Delta R.T. 0.014 min
Lab File: 0405_52.D
Acq: 6 Apr 2021 10:31 pm

Tgt Ion:101 Resp: 18940

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 67.6 | 51.5 | 77.3 |
| 66 | 14.6 | 10.6 | 15.8 |

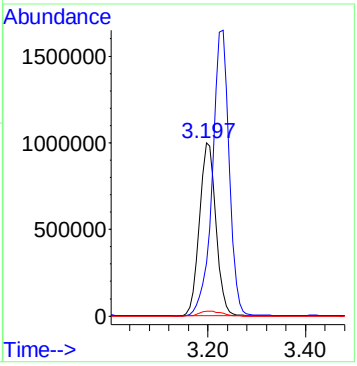


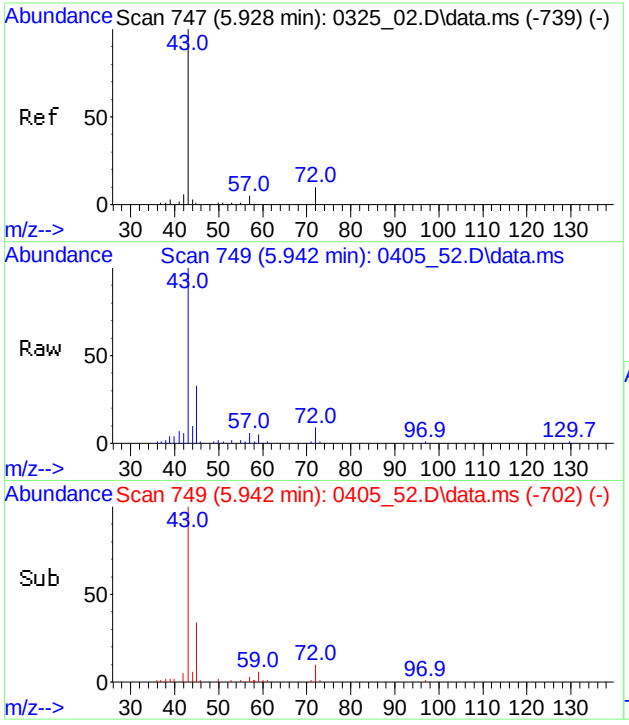



#14
Isopropylalcohol
Conc: 8$ 29.618 ppbv
RT: 3.197 min Scan# 306
Delta R.T. 0.021 min
Lab File: 0405_52.D
Acq: 6 Apr 2021 10:31 pm

Tgt Ion: 45 Resp: 2346260

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 168.1 | 84.1 | 126.1# |
| 59 | 3.8 | 2.6 | 4.0 |

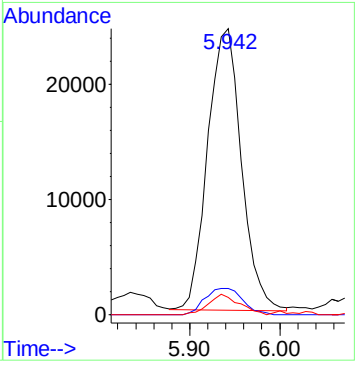


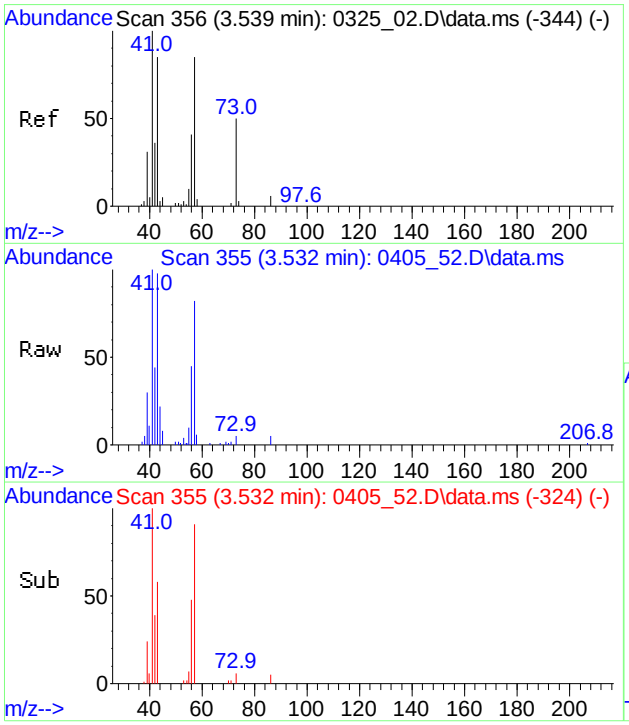




#25
Methyl Ethyl Ketone
Conc: 8$ 0.691 ppbv
RT: 5.942 min Scan# 749
Delta R.T. 0.036 min
Lab File: 0405_52.D
Acq: 6 Apr 2021 10:31 pm

Tgt Ion: 43 Resp: 63673

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 10.3 | 8.5 | 12.7 |
| 57 | 6.4 | 4.2 | 6.4# |

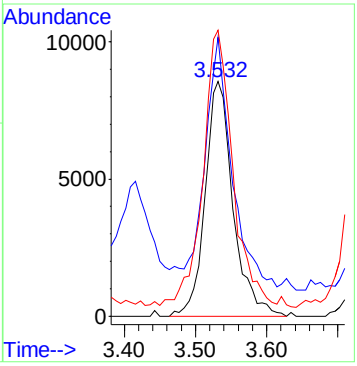


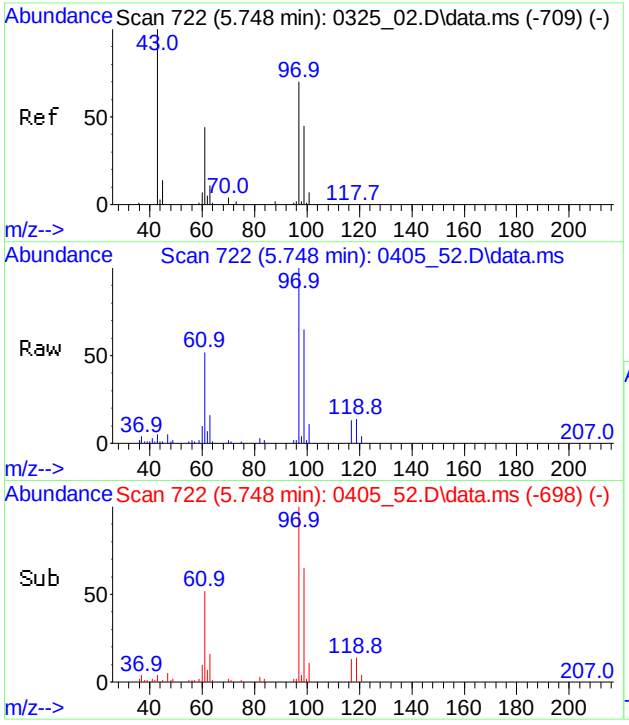



#27
Hexane
Conc: 8$ 0.374 ppbv
RT: 3.532 min Scan# 355
Delta R.T. 0.014 min
Lab File: 0405_52.D
Acq: 6 Apr 2021 10:31 pm

Tgt Ion: 57 Resp: 23219

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 43 | 101.4 | 83.3 | 124.9 |
| 41 | 124.0 | 95.6 | 143.4 |

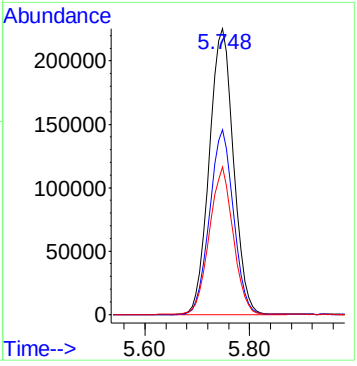


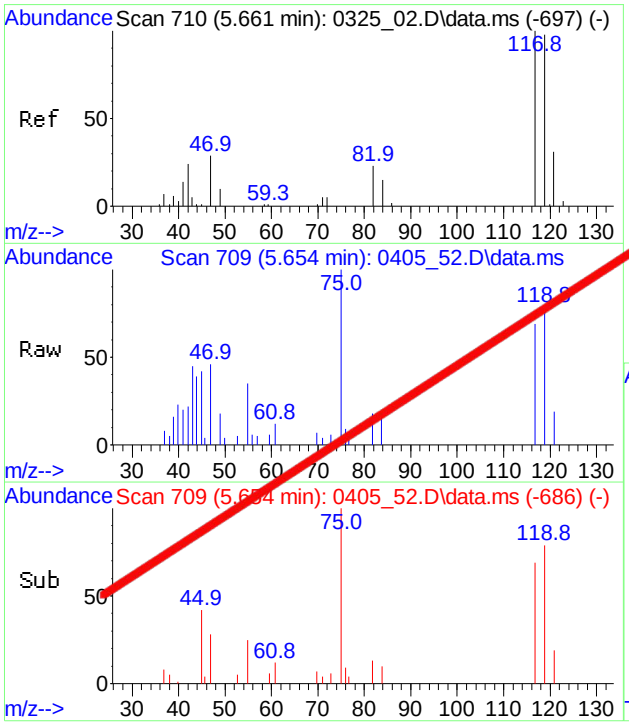




#32
1,1,1-Trichloroethane
Conc: 8$ 10.039 ppbv
RT: 5.748 min Scan# 722
Delta R.T. 0.022 min
Lab File: 0405_52.D
Acq: 6 Apr 2021 10:31 pm

Tgt Ion: 97 Resp: 726708

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 63.7 | 51.3 | 76.9 |
| 61 | 50.7 | 50.1 | 75.1 |

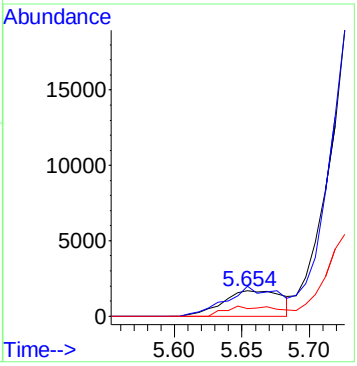


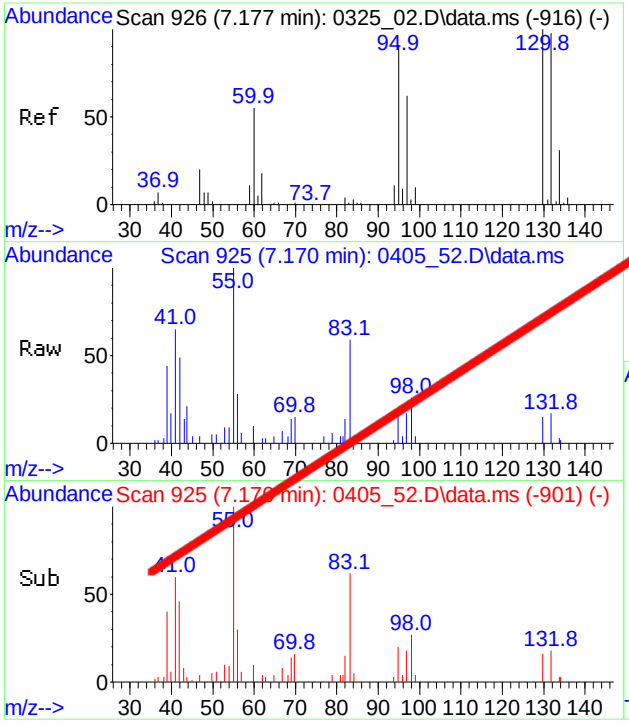



#34
Carbon Tetrachloride
Conc: 8$  Below Cal
RT:  5.654 min  Scan# 709
Delta R.T.  0.015 min
Lab File:  0405_52.D
Acq:  6 Apr 2021  10:31 pm

Tgt Ion:117 Resp:  5173

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 101.6 | 78.0 | 118.0 |
| 121 | 35.8 | 12.1 | 52.1 |

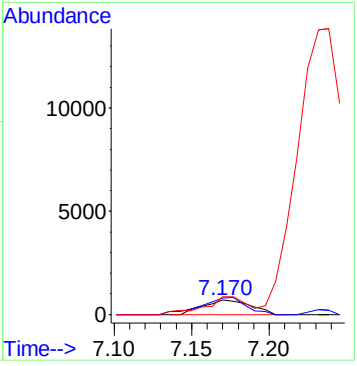


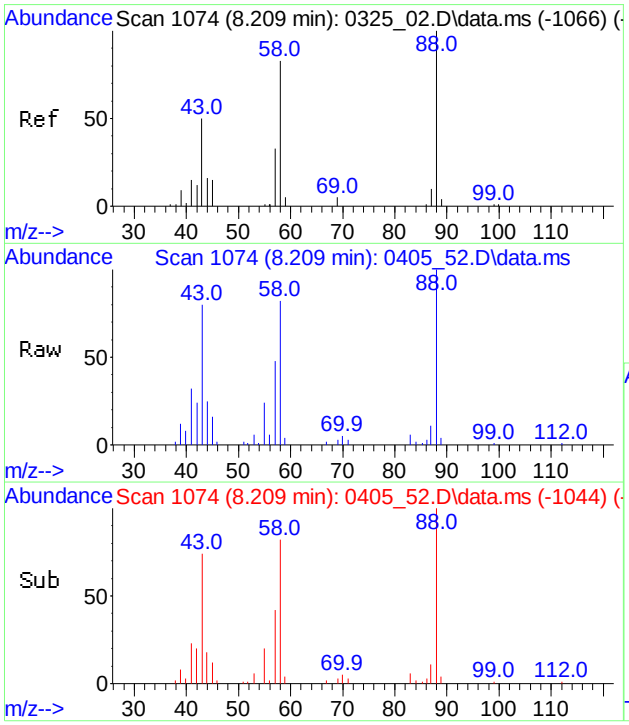




#39
Trichloroethene
Conc: 8$  Below Cal
RT:  7.170 min  Scan# 925
Delta R.T.  0.014 min
Lab File:  0405_52.D
Acq:  6 Apr 2021  10:31 pm

Tgt Ion:130 Resp:  1506

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 132 | 109.4 | 76.6 | 115.0 |
| 95 | 105.3 | 72.3 | 108.5 |

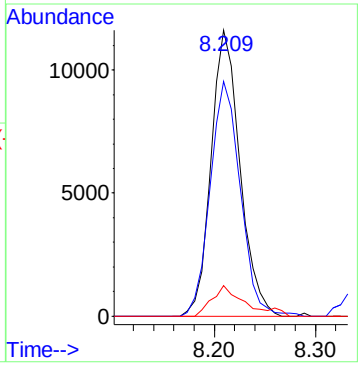


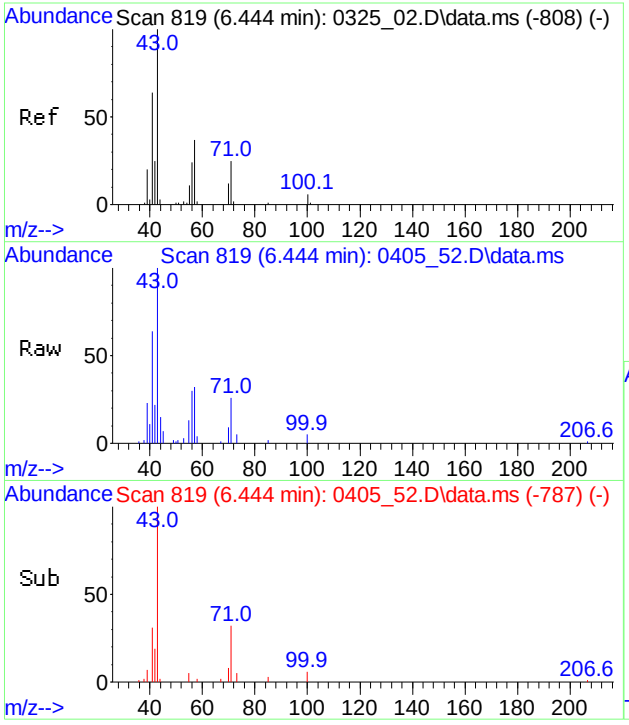



#41
1,4-Dioxane
Conc: 8$ 1.500 ppbv
RT: 8.209 min Scan# 1074
Delta R.T. 0.022 min
Lab File: 0405_52.D
Acq: 6 Apr 2021 10:31 pm

Tgt Ion: 88 Resp: 22998

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 58 | 85.8 | 69.8 | 104.8 |
| 87 | 12.2 | 7.5 | 11.3# |

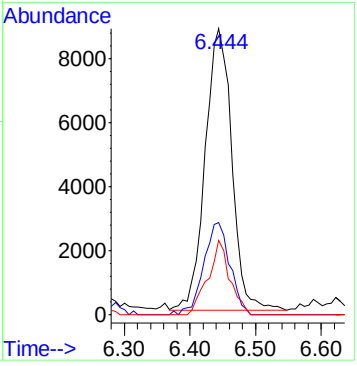


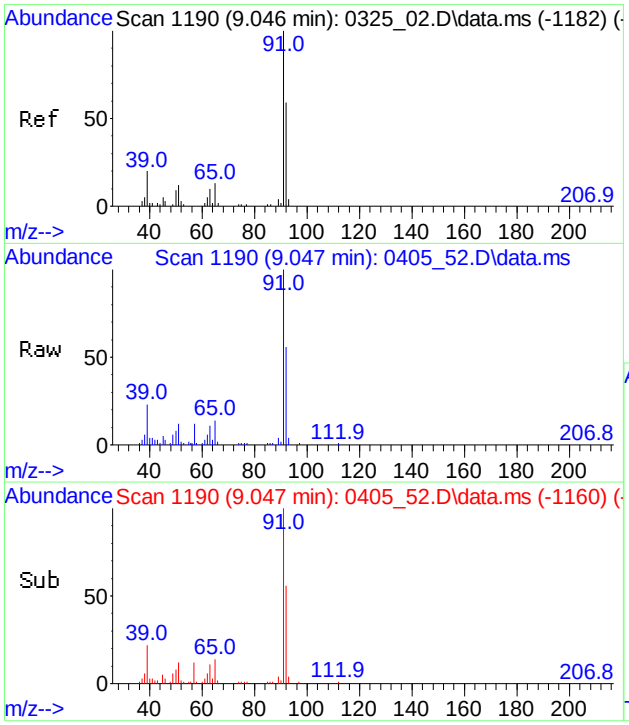




#43
Heptane
Conc: 8$ 0.302 ppbv
RT: 6.444 min Scan# 819
Delta R.T. 0.021 min
Lab File: 0405_52.D
Acq: 6 Apr 2021 10:31 pm

Tgt Ion: 43 Resp: 24512

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 57 | 31.9 | 29.5 | 44.3 |
| 71 | 21.4 | 19.8 | 29.8 |

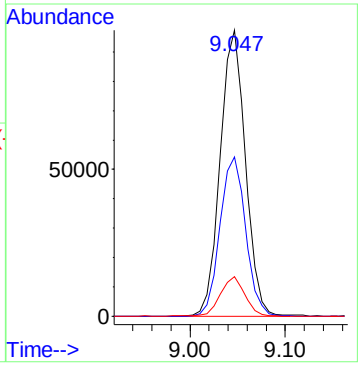


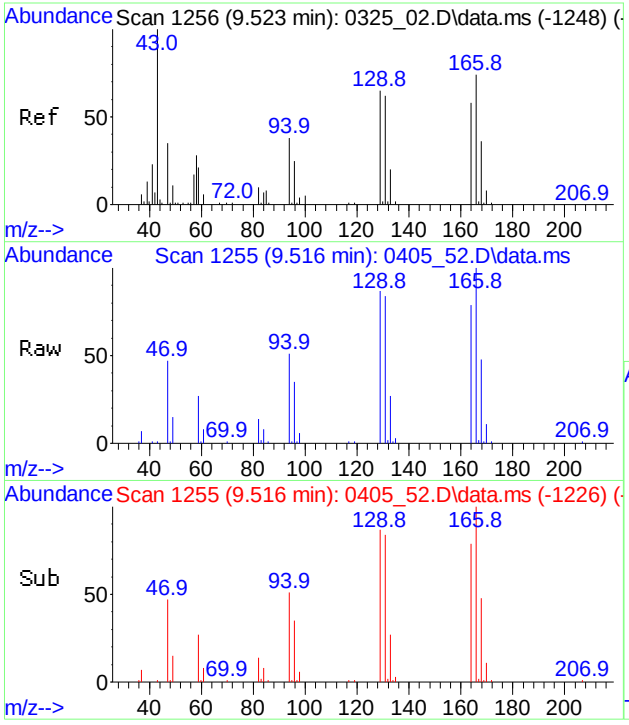



#48
Toluene
Conc: 8$ 1.932 ppbv
RT: 9.047 min Scan# 1190
Delta R.T. 0.015 min
Lab File: 0405_52.D
Acq: 6 Apr 2021 10:31 pm

Tgt Ion: 91 Resp: 178793

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 56.6 | 46.3 | 69.5 |
| 65 | 13.5 | 10.1 | 15.1 |

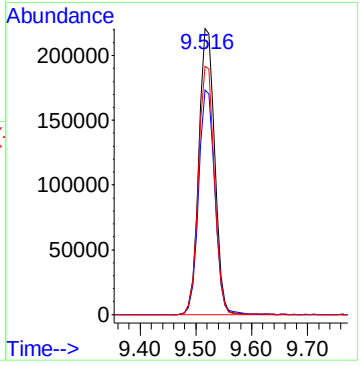


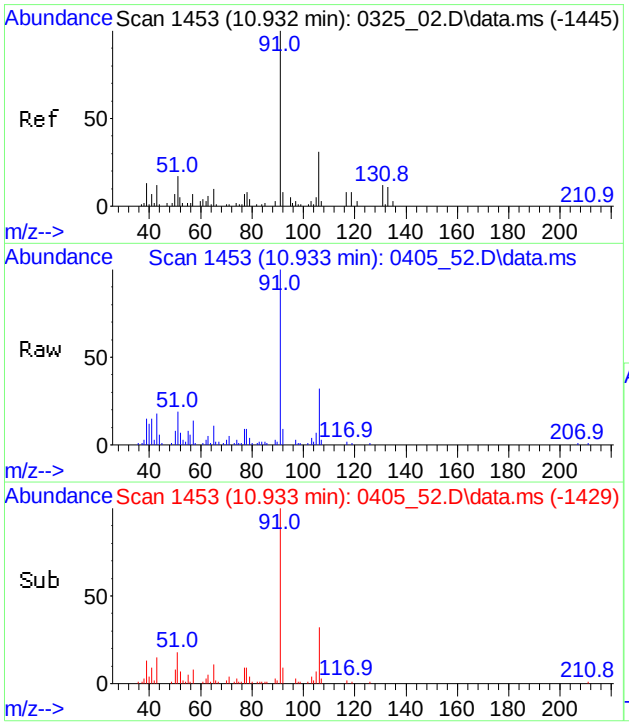




#52
Tetrachloroethene
Conc: 8$ 7.829 ppbv
RT: 9.516 min Scan# 1255
Delta R.T. 0.008 min
Lab File: 0405_52.D
Acq: 6 Apr 2021 10:31 pm

Tgt Ion:166 Resp: 433629

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 164 | 79.7 | 62.2 | 93.4 |
| 129 | 87.0 | 68.3 | 102.5 |

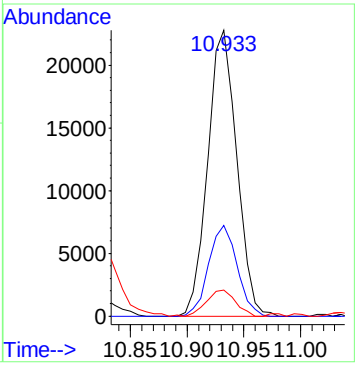


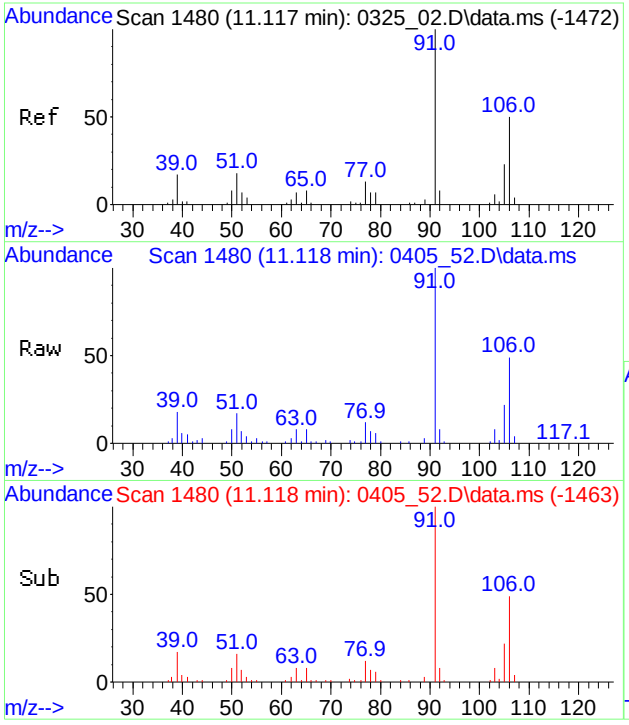



#56
Ethylbenzene
Conc: 8$ 0.311 ppbv
RT: 10.933 min Scan# 1453
Delta R.T. 0.015 min
Lab File: 0405_52.D
Acq: 6 Apr 2021 10:31 pm

Tgt Ion: 91 Resp: 40340

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 31.2 | 11.4 | 51.4 |
| 77 | 9.1 | 0.0 | 28.7 |

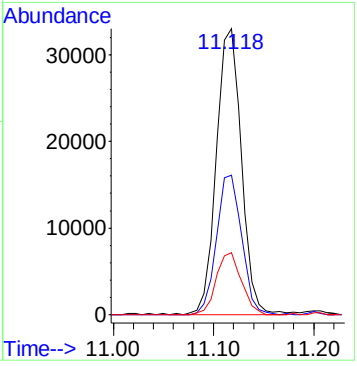


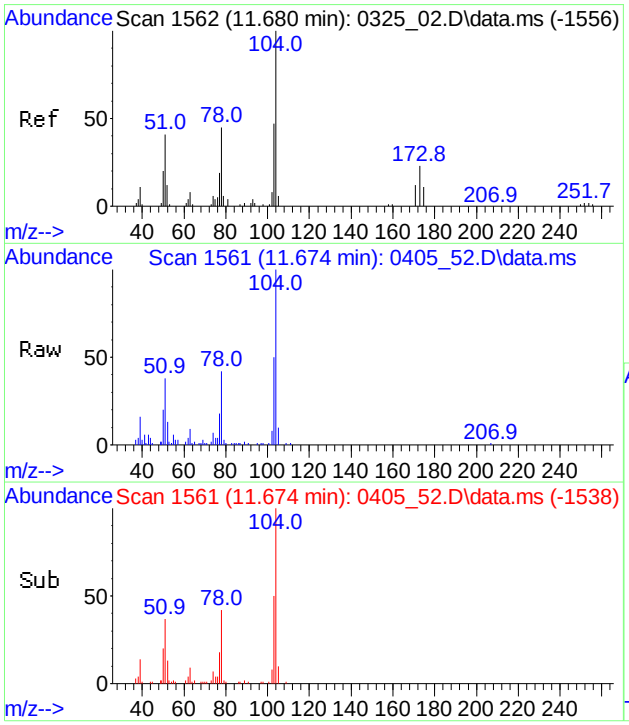




#57
m,p-Xylene
Conc: 8$ 0.589 ppbv
RT: 11.118 min Scan# 1480
Delta R.T. 0.014 min
Lab File: 0405_52.D
Acq: 6 Apr 2021 10:31 pm

Tgt Ion: 91 Resp: 57363

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 48.8 | 39.8 | 59.8 |
| 105 | 21.8 | 18.2 | 27.4 |

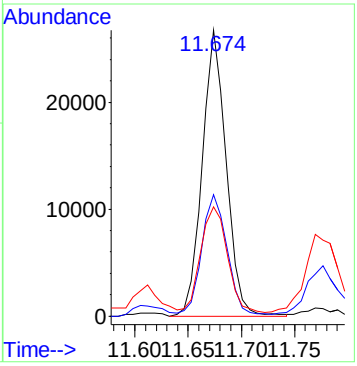


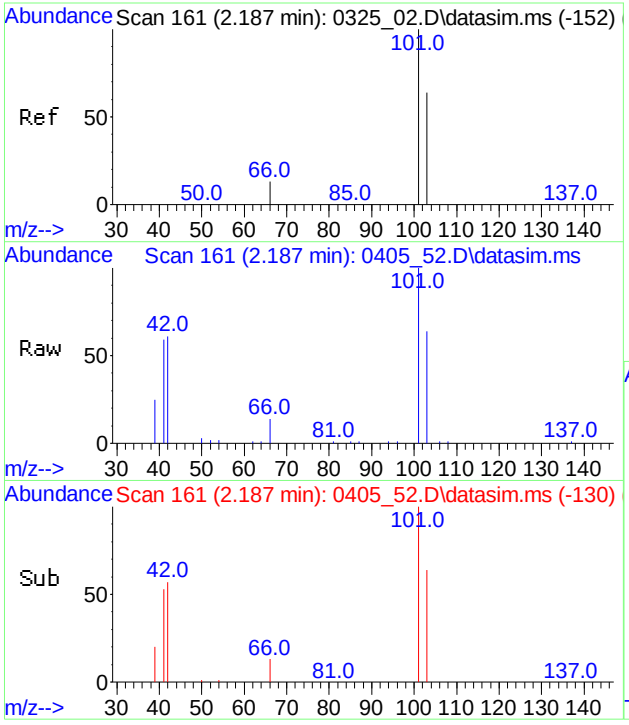



#59
Styrene
Conc: 8$ 0.596 ppbv
RT: 11.674 min Scan# 1561
Delta R.T. 0.008 min
Lab File: 0405_52.D
Acq: 6 Apr 2021 10:31 pm

Tgt Ion:104 Resp: 41674

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 43.8 | 36.2 | 54.4 |
| 51 | 41.0 | 33.0 | 49.6 |

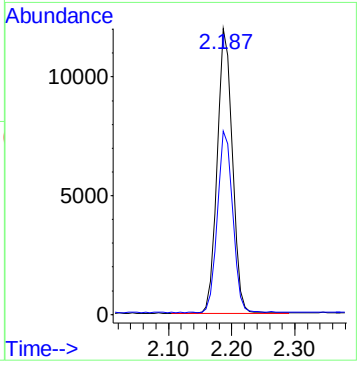


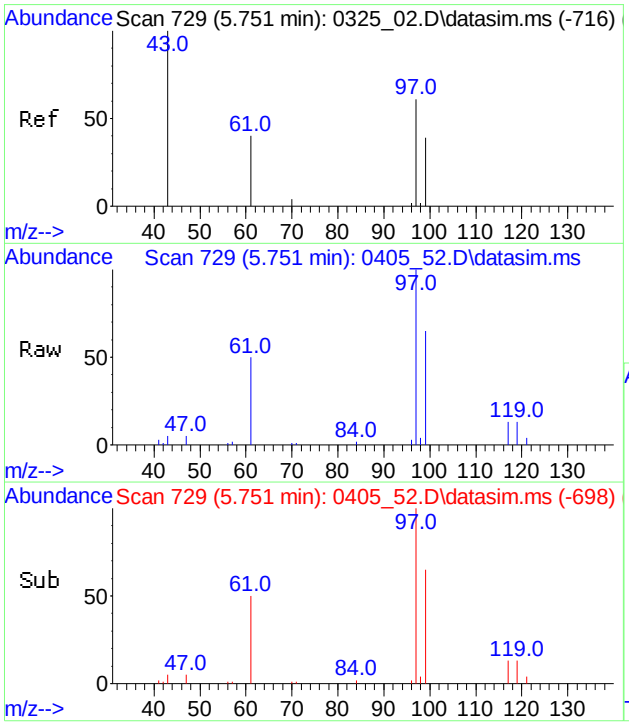




#84
Trichlorofluoromethane(sim)
Conc: 8$ 0.195 ppbv
RT: 2.187 min Scan# 161
Delta R.T. 0.014 min
Lab File: 0405_52.D
Acq: 6 Apr 2021 10:31 pm

Tgt Ion:101 Resp: 20053

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 64.1 | 51.9 | 77.9 |

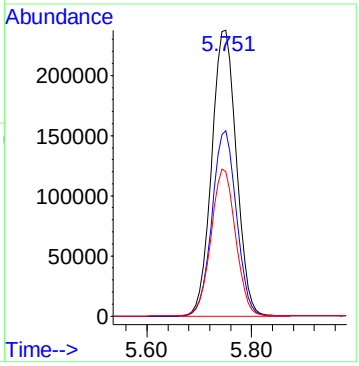


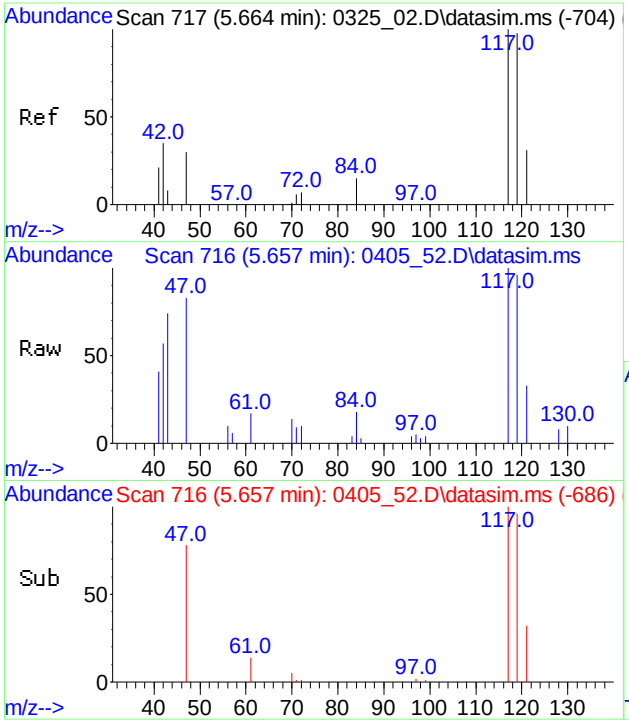



#85
1,1,1-Trichloroethane(sim)
Conc: 8$ 9.554 ppbv
RT: 5.748 min Scan# 729
Delta R.T. 0.022 min
Lab File: 0405_52.D
Acq: 6 Apr 2021 10:31 pm

Tgt Ion: 97 Resp: 726708

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 63.7 | 64.0 | 64.0# |
| 61 | 50.7 | 50.0 | 75.0 |

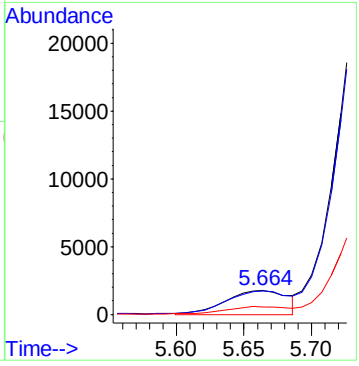


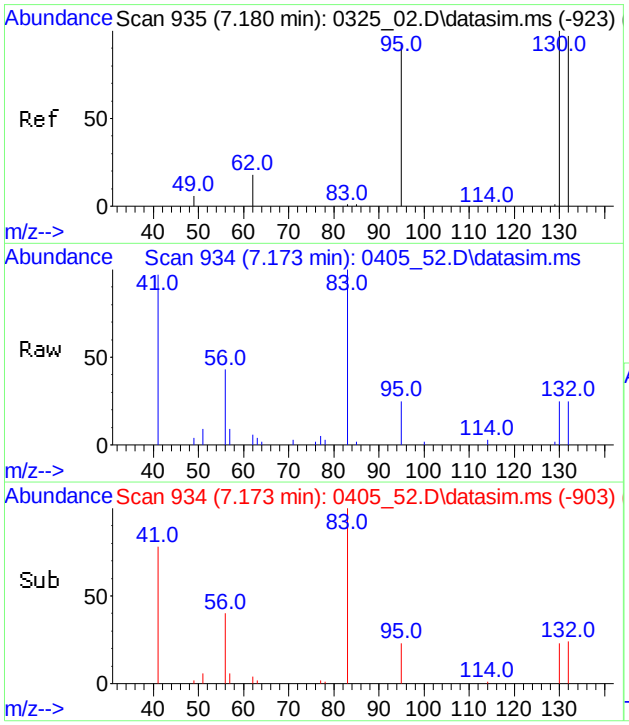




#87
Carbon Tetrachloride(sim)
Conc: 8$ 0.056 ppbv
RT: 5.654 min Scan# 716
Delta R.T. 0.015 min
Lab File: 0405_52.D
Acq: 6 Apr 2021 10:31 pm

Tgt Ion:117 Resp: 4886

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 107.6 | 78.4 | 117.6 |
| 121 | 29.5 | 25.7 | 38.5 |

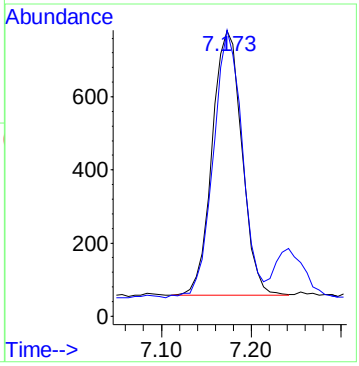


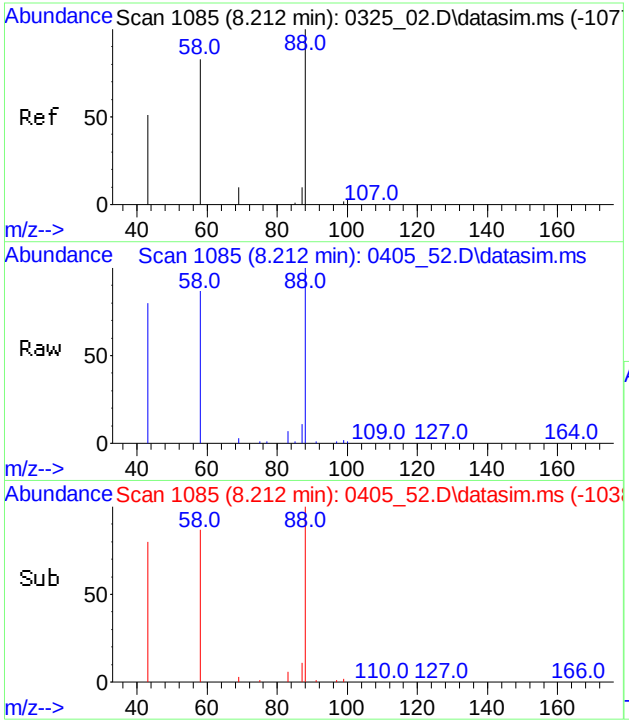



#98
Trichloroethene(sim)
Conc: 8$ 0.033 ppbv
RT: 7.173 min Scan# 934
Delta R.T. 0.014 min
Lab File: 0405_52.D
Acq: 6 Apr 2021 10:31 pm

Tgt Ion:130 Resp: 1671

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 132 | 98.4 | 77.1 | 115.7 |

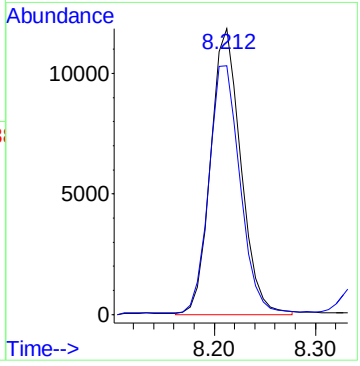


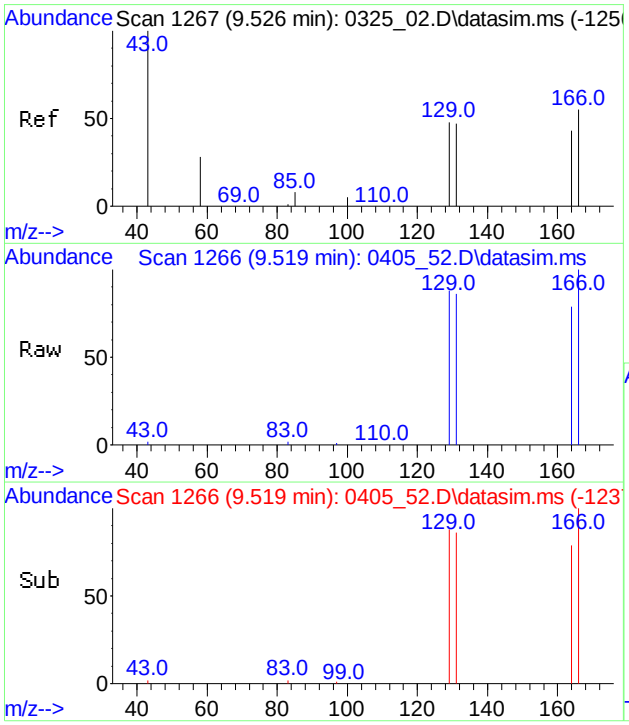




#99
1,4-Dioxane(sim)
Conc: 8$ 1.502 ppbv
RT: 8.209 min Scan# 1085
Delta R.T. 0.022 min
Lab File: 0405_52.D
Acq: 6 Apr 2021 10:31 pm

Tgt Ion: 88 Resp: 22998

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 58 | 85.8 | 83.8 | 90.8 |

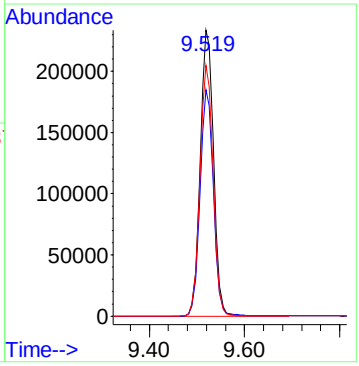


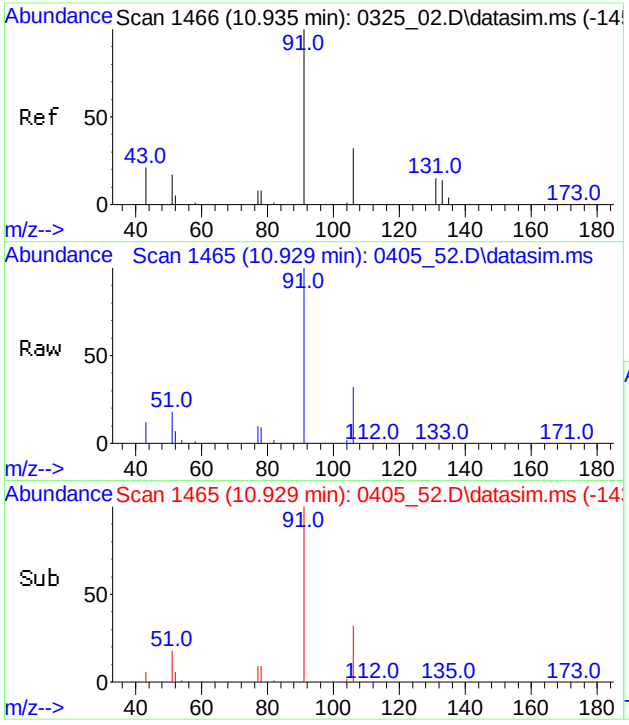



#104
Tetrachloroethene(sim)
Conc: 8$ 7.613 ppbv
RT: 9.519 min Scan# 1266
Delta R.T. 0.008 min
Lab File: 0405_52.D
Acq: 6 Apr 2021 10:31 pm

Tgt Ion:166 Resp: 452126

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 164 | 79.3 | 58.4 | 98.4 |
| 129 | 87.2 | 66.6 | 106.6 |

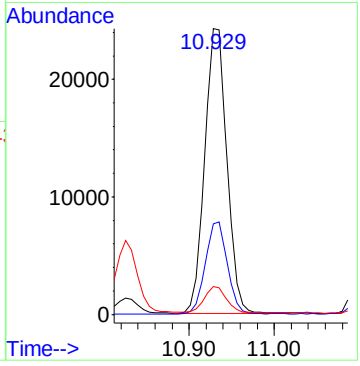


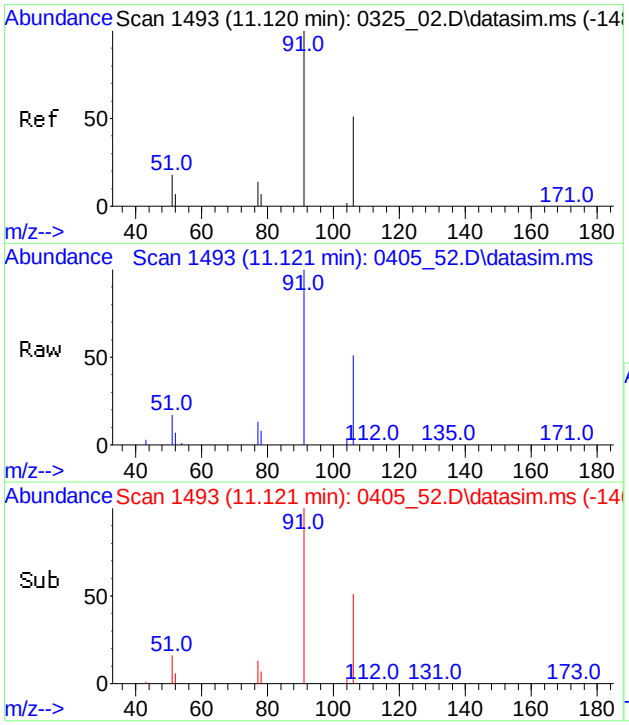




#108
Ethylbenzene(sim)
Conc: 8$ 0.310 ppb
RT: 10.929 min Scan# 1465
Delta R.T. 0.008 min
Lab File: 0405_52.D
Acq: 6 Apr 2021 10:31 pm

Tgt Ion: 91 Resp: 43735

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 31.9 | 25.8 | 38.8 |
| 77 | 9.1 | 7.0 | 10.6 |

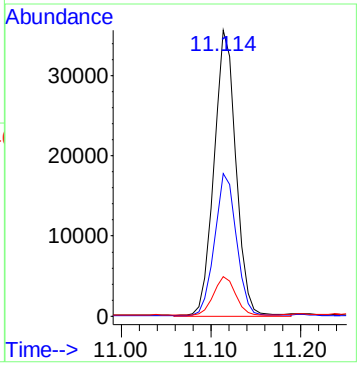





#109
m,p-Xylene(sim)
Conc: 8$ 0.598 ppbv
RT: 11.118 min Scan# 1493
Delta R.T. 0.014 min
Lab File: 0405_52.D
Acq: 6 Apr 2021 10:31 pm

Tgt Ion: 91 Resp: 57563

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 48.7 | 44.8 | 54.8 |
| 77 | 13.8 | 10.5 | 15.7 |



AIR ANALYSIS DATA SHEET

CLIENT ID: SS-2 5X

Client: GC-ENV Lab: Phoenix Env. Labs

SDG No.: GCH92051 Lab Sample ID: CH92063 5X

Canister: 13633 Lab File ID: 0405_29.D

Instrument: CHEM20 Column: RTX-1 60M Date Received: 04/05/21

Purge Volume 200 (cc) Date Analyzed: 04/06/21

Matrix: AIR Dilution Factor: 5

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

| CAS NO. | COMPOUND | CONC. | Q | MDL | PQL | R |
|---|---|---|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 1.01 | U | 1.01 | 1.01 | |
| 64-17-5 | Ethanol | 97.1 | DS | 2.66 | 2.66 | r |
| 67-64-1 | Acetone | 62.7 | DS | 2.11 | 2.11 | r |
| 67-63-0 | Isopropylalcohol | 34.9 | X | 2.04 | 2.04 | |
| 78-93-3 | Methyl Ethyl Ketone | 1.70 | U | 1.70 | 1.70 | |
| 110-54-3 | Hexane | 1.42 | U | 1.42 | 1.42 | |
| 71-55-6 | 1,1,1-Trichloroethane | 11.6 | X | 0.917 | 0.917 | |
| 123-91-1 | 1,4-Dioxane | 1.39 | U | 1.39 | 1.39 | |
| 142-82-5 | Heptane | 1.22 | U | 1.22 | 1.22 | |
| 108-88-3 | Toluene | 1.81 | X | 1.33 | 1.33 | |
| 127-18-4 | Tetrachloroethene | 7.99 | X | 0.184 | 0.184 | |
| 100-41-4 | Ethylbenzene | 1.15 | U | 1.15 | 1.15 | |
| 100-42-5 | Styrene | 1.17 | U | 1.17 | 1.17 | |
| 75-69-4 | Trichlorofluoromethane(sim) | 0.890 | U | 0.890 | 0.890 | |
| 56-23-5 | Carbon Tetrachloride(sim) | 0.159 | U | 0.159 | 0.159 | |
| 179601-23-1 | m,p-Xylene(sim) | 1.15 | U | 1.15 | 1.15 | |

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:\AIR2021\CHEM20\04APR\05\
Data File : 0405_29.D
Acq On : 6 Apr 2021 3:03 am
Operator :
Client ID : SS-2 5X
Lab ID : CH92063 5X
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Apr 06 08:27:17 2021
Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0329.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Mar 29 13:12:48 2021
Response via : Initial Calibration

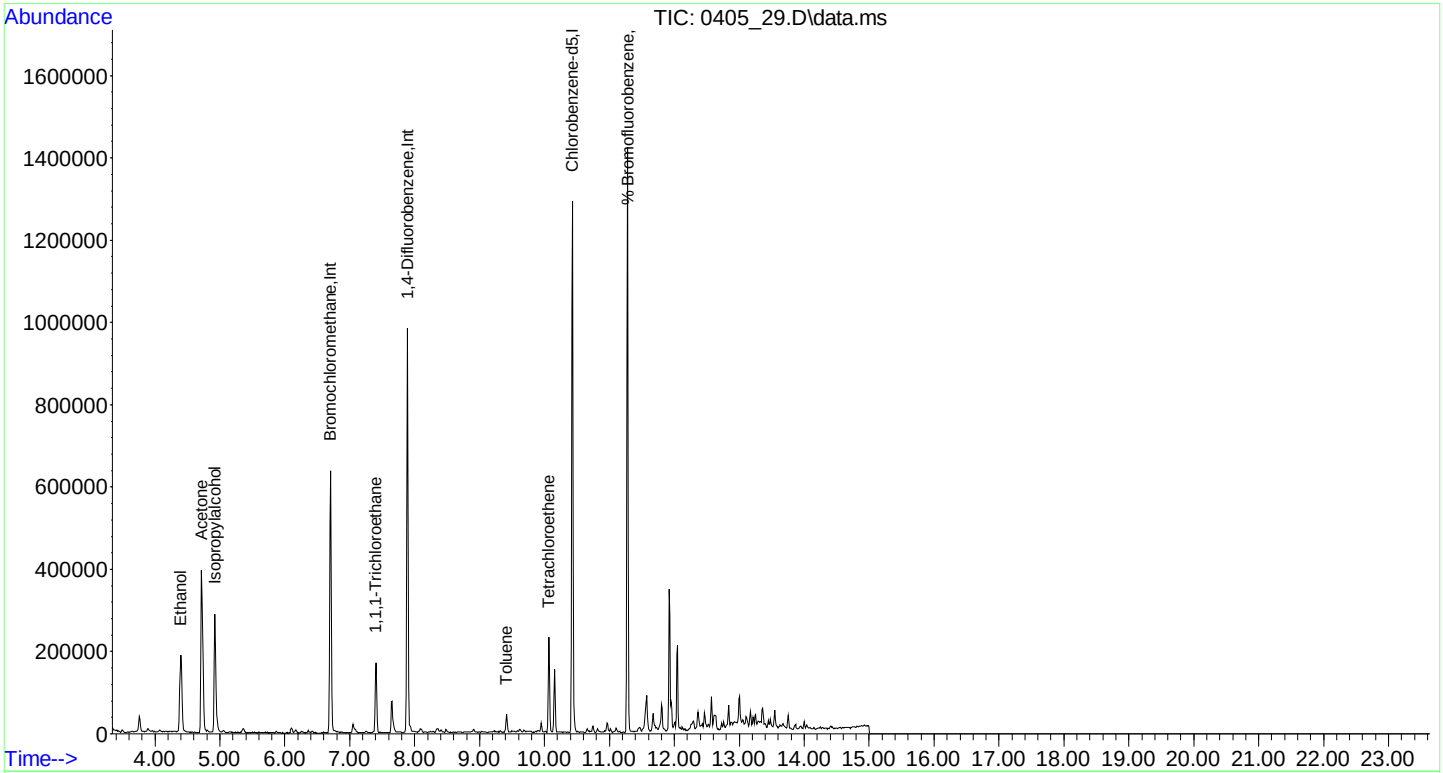
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Bromochloromethane | 6.704 | 130 | 136010 | 10.000 | ng | | 0.00 |
| 37) 1,4-Difluorobenzene | 7.889 | 114 | 528615 | 10.000 | ng | | 0.00 |
| 54) Chlorobenzene-d5 | 10.430 | 82 | 265631 | 10.000 | ng | | 0.00 |
| 81) Bromochloromethane(sim) | 6.710 | 130 | 159040 | 10.000 | ng | # | 0.00 |
| 96) 1,4-Difluorobenzene(sim) | 7.889 | 114 | 528615 | 10.000 | ng | | 0.00 |
| 106) Chlorobenzene-d5(sim) | 10.430 | 82 | 265631 | 10.000 | ng | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 63) % Bromofluorobenzene | 11.281 | 95 | 319349 | 10.201 | ppbv | | 0.00 |
| Spiked Amount 10.000 | Range 70 - 130 | | Recovery = 102.00% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 11) Ethanol | 4.394 | 45 | 222780 | 19.410 | ppbv# | | 72 |
| 12) Acetone | 4.718 | 43 | 526239 | 12.544 | ppbv# | | 87 |
| 14) Isopropylalcohol | 4.922 | 45 | 358763 | 6.978 | ppbv# | | 91 |
| 33) 1,1,1-Trichloroethane | 7.402 | 97 | 86556 | 2.316 | ppbv | | 96 |
| 49) Toluene | 9.415 | 91 | 18296 | 0.363 | ppbv | | 98 |
| 53) Tetrachloroethene | 10.065 | 166 | 40504 | 1.599 | ppbv# | | 81 |
| 87] 1,1,1-Trichloroethane(... | 7.408 | 97 | 95239 | 2.257 | ppbv# | | 98 |
| 105] Tetrachloroethene(sim) | 10.071 | 166 | 49841 | 1.652 | ppbv | | 98 |

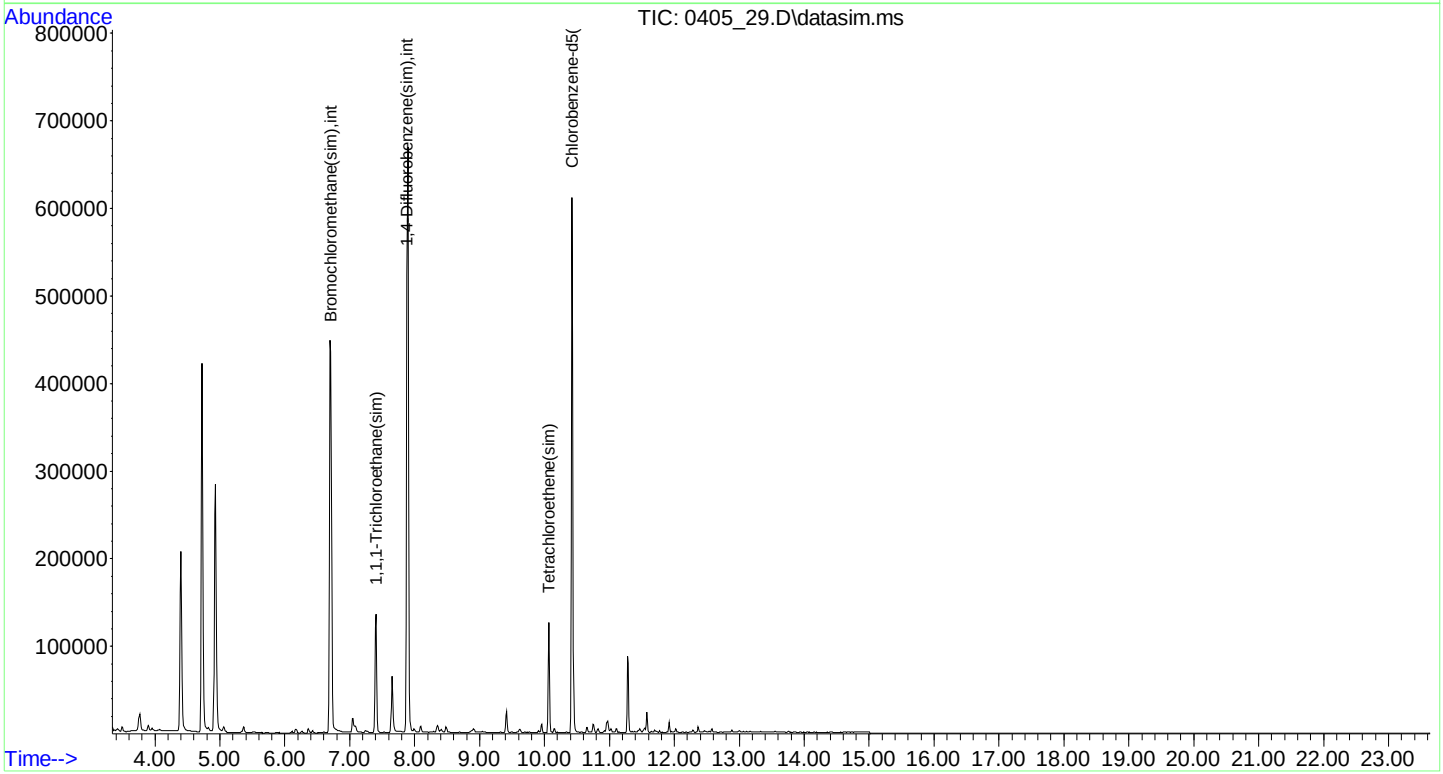
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

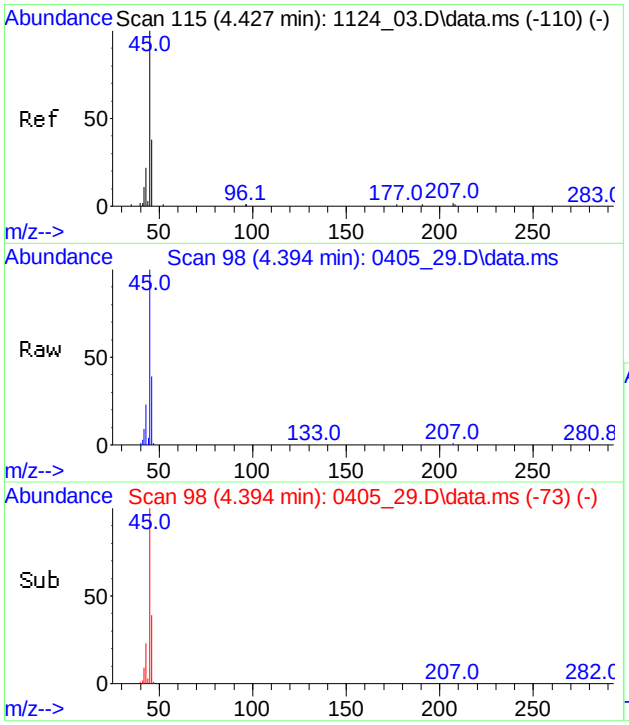
Quantitation Report (QT Reviewed)

Data Path : H:\AIR2021\CHEM20\04APR\05\
Data File : 0405_29.D
Acq On : 6 Apr 2021 3:03 am
Operator :
Client ID : SS-2 5X
Lab ID : CH92063 5X
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Apr 06 08:27:17 2021
Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0329.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Mar 29 13:12:48 2021
Response via : Initial Calibration



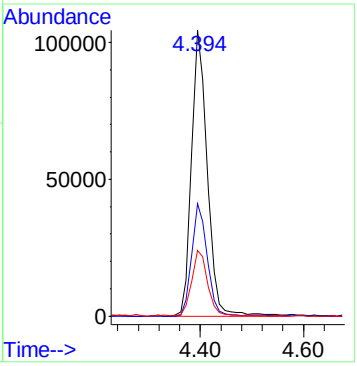



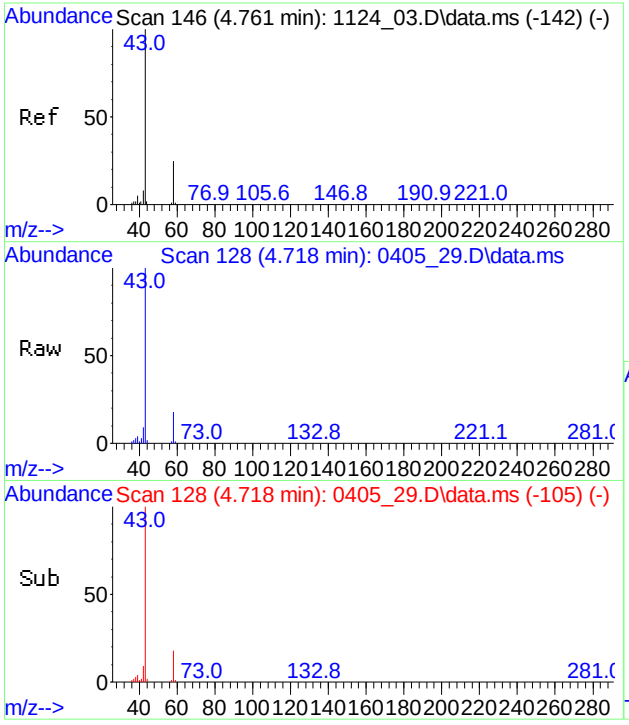



#11
Ethanol
Conc: 8$ 19.410 ppbv
RT: 4.394 min Scan# 98
Delta R.T. -0.032 min
Lab File: 0405_29.D
Acq: 6 Apr 2021 3:03 am

Tgt Ion: 45 Resp: 222780

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 38.3 | 0.0 | 0.0# |
| 43 | 23.6 | 10.0 | 15.0# |

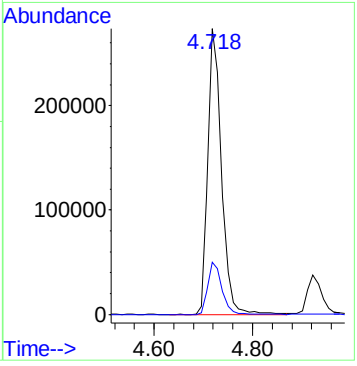


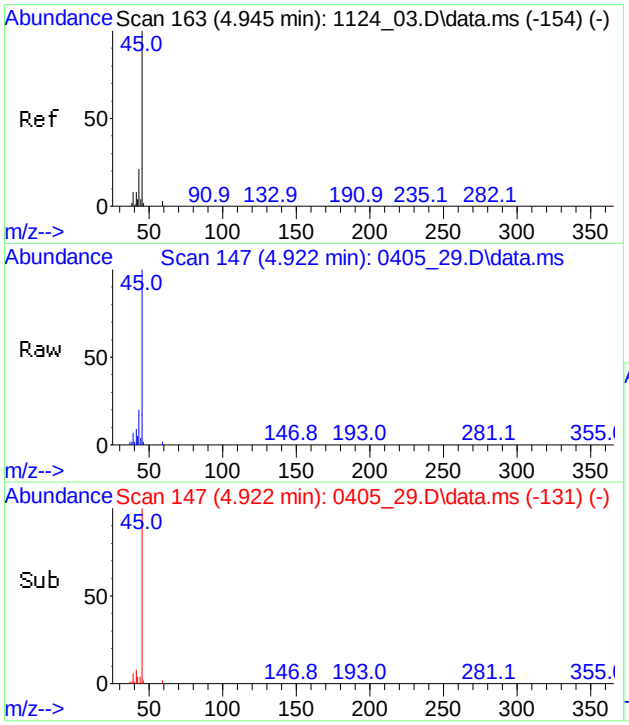




#12
Acetone
Conc: 8$ 12.544 ppbv
RT: 4.718 min Scan# 128
Delta R.T. -0.053 min
Lab File: 0405_29.D
Acq: 6 Apr 2021 3:03 am

Tgt Ion: 43 Resp: 526239

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 18.8 | 20.4 | 30.6# |

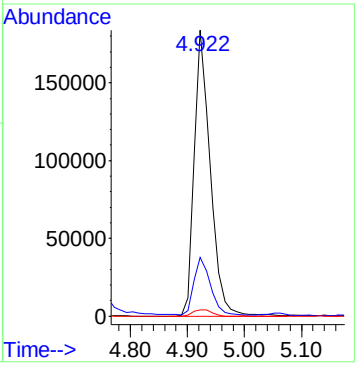


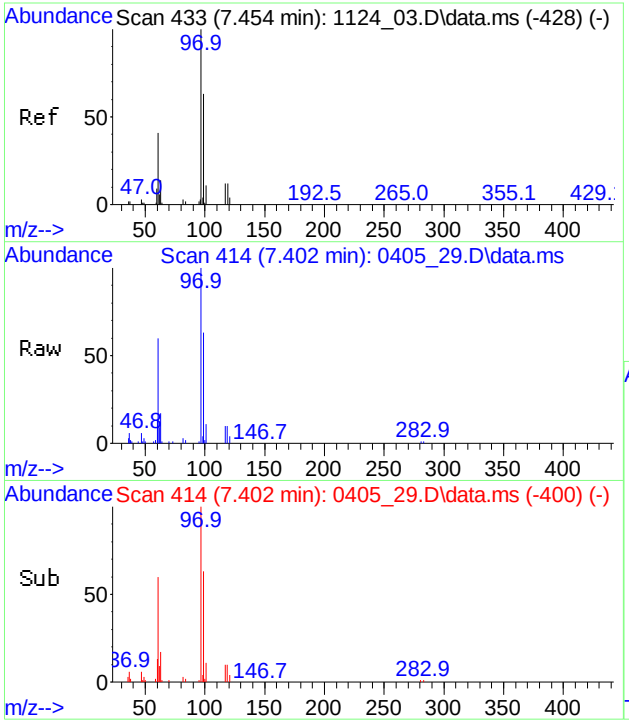



#14
Isopropylalcohol
Conc: 8$ 6.978 ppbv
RT: 4.922 min Scan# 147
Delta R.T. -0.033 min
Lab File: 0405_29.D
Acq: 6 Apr 2021 3:03 am

Tgt Ion: 45 Resp: 358763

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 20.5 | 20.6 | 31.0# |
| 59 | 2.5 | 2.1 | 3.1 |

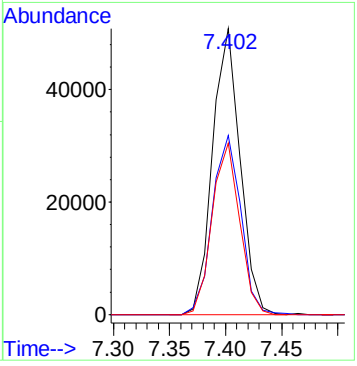


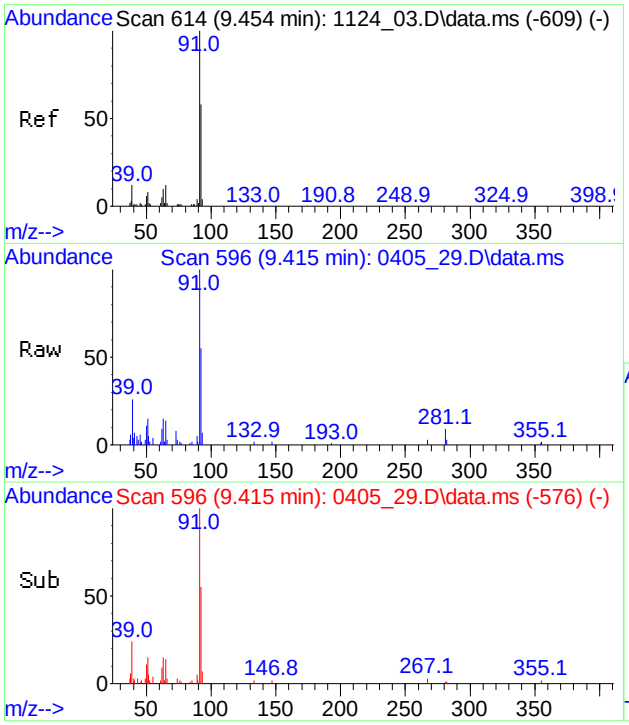




#33
1,1,1-Trichloroethane
Conc: 8$ 2.316 ppbv
RT: 7.402 min Scan# 414
Delta R.T. 0.000 min
Lab File: 0405_29.D
Acq: 6 Apr 2021 3:03 am

Tgt Ion: 97 Resp: 86556

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 64.7 | 53.8 | 80.8 |
| 61 | 59.8 | 51.4 | 77.0 |

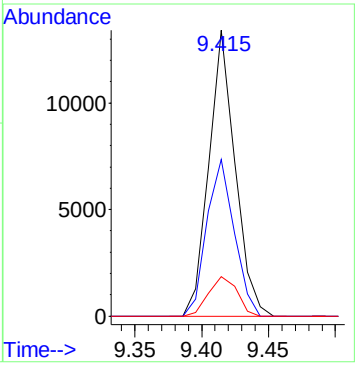


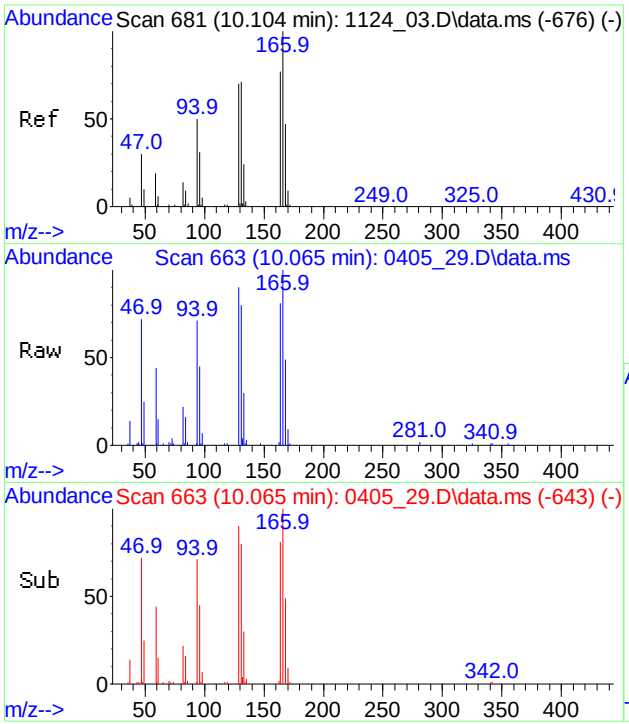



#49
Toluene
Conc: 8$ 0.363 ppbv
RT: 9.415 min Scan# 596
Delta R.T. -0.009 min
Lab File: 0405_29.D
Acq: 6 Apr 2021 3:03 am

Tgt Ion: 91 Resp: 18296

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 57.3 | 46.8 | 70.2 |
| 65 | 15.0 | 11.5 | 17.3 |

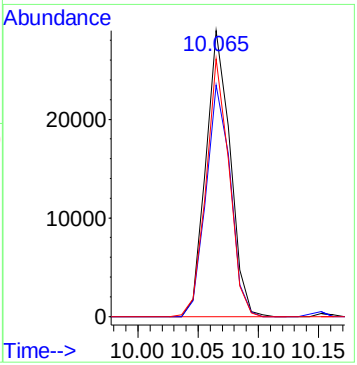


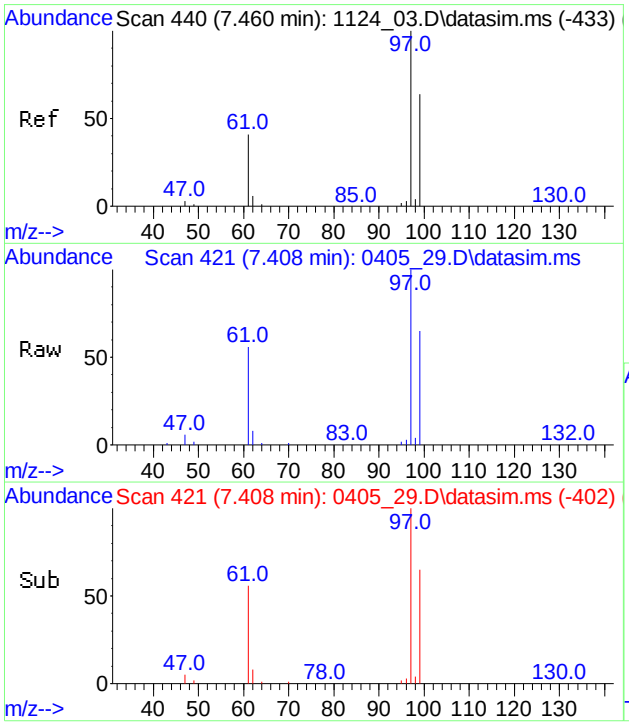




#53
Tetrachloroethene
Conc: 8$ 1.599 ppbv
RT: 10.065 min Scan# 663
Delta R.T. -0.010 min
Lab File: 0405_29.D
Acq: 6 Apr 2021 3:03 am

Tgt Ion:166 Resp: 40504

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 164 | 81.1 | 52.6 | 78.8# |
| 129 | 85.4 | 55.5 | 83.3# |

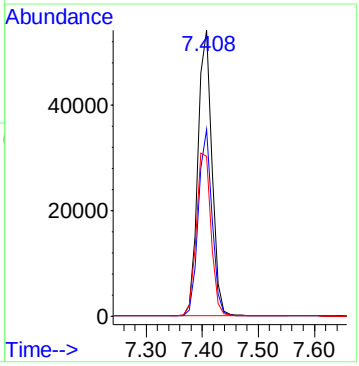


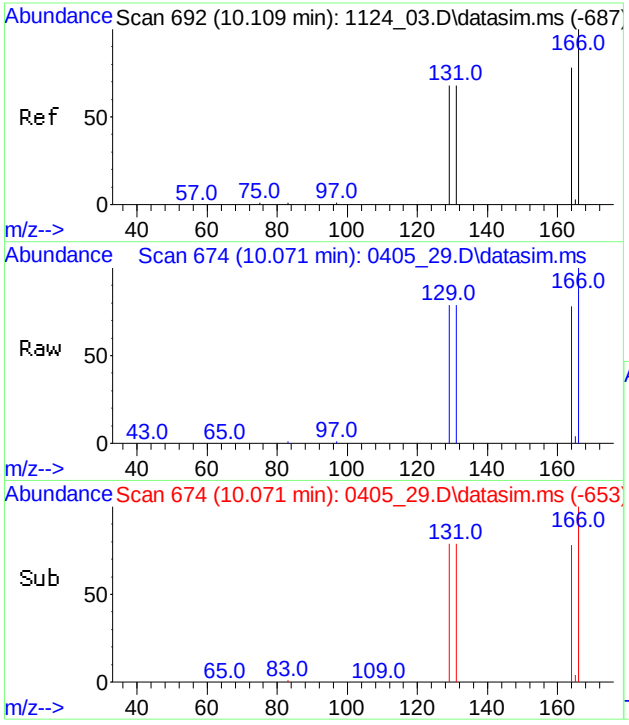



#87
1,1,1-Trichloroethane(sim)
Conc: 8$ 2.257 ppbv
RT: 7.408 min Scan# 421
Delta R.T. 0.001 min
Lab File: 0405_29.D
Acq: 6 Apr 2021 3:03 am

Tgt Ion: 97 Resp: 95239

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 63.5 | 62.4 | 62.4# |
| 61 | 59.9 | 46.0 | 69.0 |

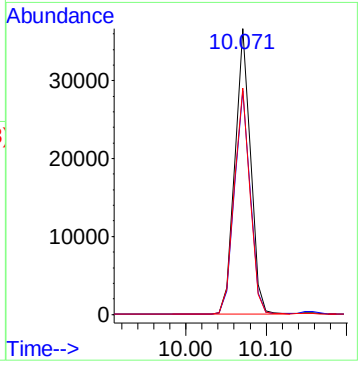



#105
Tetrachloroethene(sim)
Conc: 8$ 1.652 ppbv
RT: 10.071 min Scan# 674
Delta R.T. 0.001 min
Lab File: 0405_29.D
Acq: 6 Apr 2021 3:03 am

Tgt Ion:166 Resp: 49841

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 164 | 79.0 | 58.1 | 98.1 |
| 129 | 79.4 | 56.6 | 96.6 |



1

AIR ANALYSIS DATA SHEET

CLIENT ID: SS-3

Client: GC-ENV Lab: Phoenix Env. Labs

SDG No.: GCH92051 Lab Sample ID: CH92064

Canister: 367 Lab File ID: 0405_53.D

Instrument: CHEM24 Column: RTX-VMS Date Received: 04/05/21

Purge Volume 200 (cc) Date Analyzed: 04/06/21

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

| CAS NO. | COMPOUND | CONC. | Q | MDL | PQL | R |
|---|---|---|---|---|---|---|
| 115-07-1 | Propylene | 0.951 | | 0.581 | 0.581 | r |
| 75-71-8 | Dichlorodifluoromethane | 0.531 | | 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 | 435 | ES | 0.531 | 0.531 | |
| 67-64-1 | Acetone | 47.9 | ES | 0.421 | 0.421 | |
| 67-63-0 | Isopropylalcohol | 51.1 | ES | 0.407 | 0.407 | |
| 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 | 1.51 | | 0.321 | 0.321 | r |
| 1634-04-4 | Methyl tert-butyl ether(MTBE) | 0.278 | U | 0.278 | 0.278 | r |
| 78-93-3 | Methyl Ethyl Ketone | 0.715 | | 0.339 | 0.339 | r |
| 110-54-3 | Hexane | 0.523 | 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 |
| 107-06-2 | 1,2-Dichloroethane | 0.497 | | 0.247 | 0.247 | r |
| 71-55-6 | 1,1,1-Trichloroethane | 90.1 | E | 0.183 | 0.183 | |
| 110-82-7 | Cyclohexane | 2.54 | | 0.291 | 0.291 | r |
| 123-91-1 | 1,4-Dioxane | 2.02 | | 0.278 | 0.278 | r |
| 142-82-5 | Heptane | 0.468 | | 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 | 1.97 | | 0.266 | 0.266 | r |
| 591-78-6 | 2-Hexanone(MBK) | 0.244 | U | 0.244 | 0.244 | r |
| 127-18-4 | Tetrachloroethene | 9.63 | | 0.037 | 0.037 | r |
| 108-90-7 | Chlorobenzene | 0.217 | U | 0.217 | 0.217 | r |
| 100-41-4 | Ethylbenzene | 0.246 | | 0.230 | 0.230 | r |
| 179601-23-1 | m,p-Xylene | 0.454 | | 0.230 | 0.230 | r |
| 100-42-5 | Styrene | 0.235 | U | 0.235 | 0.235 | 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: SS-3

Client: GC-ENV Lab: Phoenix Env. Labs

SDG No.: GCH92051 Lab Sample ID: CH92064

Canister: 367 Lab File ID: 0405_53.D

Instrument: CHEM24 Column: RTX-VMS Date Received: 04/05/21

Purge Volume 200 (cc) Date Analyzed: 04/06/21

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 |
| 75-69-4 | Trichlorofluoromethane(sim) | 0.185 | | 0.178 | 0.178 | r |
| 71-43-2 | Benzene(sim) | 0.313 | U | 0.313 | 0.313 | 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) | 0.197 | | 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) | 0.180 | | 0.037 | 0.037 | r |
| 10061-01-5 | cis-1,3-Dichloropropene(sim) | 0.221 | U | 0.221 | 0.221 | r |
| 79-00-5 | 1,1,2-Trichloroethane(sim) | 0.183 | U | 0.183 | 0.183 | r |
| 124-48-1 | Dibromochloromethane(sim) | 0.118 | U | 0.118 | 0.118 | r |
| 106-93-4 | 1,2-Dibromoethane(EDB)(sim) | 0.130 | U | 0.130 | 0.130 | r |
| 75-25-2 | Bromoform(sim) | 0.097 | U | 0.097 | 0.097 | r |
| 630-20-6 | 1,1,1,2-Tetrachloroethane(sim) | 0.146 | U | 0.146 | 0.146 | r |
| 95-47-6 | o-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 |
| | | | | | | |
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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:\AIR2021\CHEM24\04APR\05\
Data File : 0405_53.D
Acq On : 6 Apr 2021 11:07 pm
Operator : Keith
Client ID : SS-3
Lab ID : CH92064
ALS Vial : 51 Sample Multiplier: 1

Quant Time: Apr 07 08:27:47 2021
Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 26 09:02:26 2021
Response via : Initial Calibration

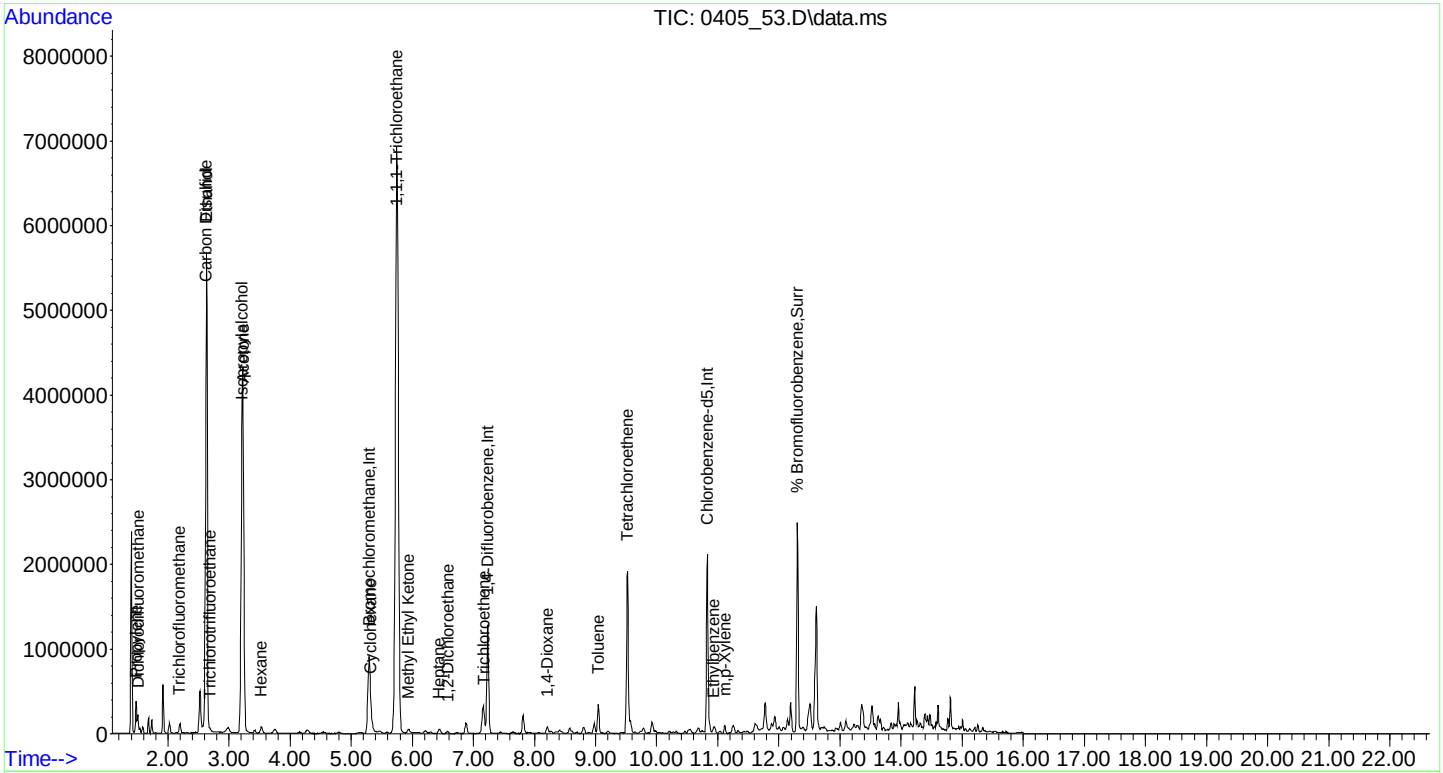
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Bromochloromethane | 5.293 | 130 | 365408 | 10.000 | ng | | 0.03 |
| 36) 1,4-Difluorobenzene | 7.238 | 114 | 1166102 | 10.000 | ng | | 0.01 |
| 53) Chlorobenzene-d5 | 10.829 | 82 | 532514 | 10.000 | ng | | 0.01 |
| 80) Bromochloromethane(sim) | 5.296 | 130 | 373117 | 10.000 | ng | # | 0.03 |
| 95) 1,4-Difluorobenzene(sim) | 7.238 | 114 | 1166102 | 10.000 | ng | | 0.01 |
| 105) Chlorobenzene-d5(sim) | 10.829 | 82 | 532514 | 10.000 | ng | | 0.01 |
| System Monitoring Compounds | | | | | | | |
| 62) % Bromofluorobenzene | 12.303 | 95 | 730552 | 9.891 | ppbv | | 0.00 |
| Spiked Amount 10.000 | Range 70 - 130 | | Recovery = | 98.90% | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) Propylene | 1.485 | 41 | 34570 | 0.950 | ppbv | | 86 |
| 3) Dichlorodifluoromethane | 1.512 | 85 | 35443 | 0.531 | ppbv | | 98 |
| 10) Ethanol | 2.636 | 45 | 7065663 | 435.202 | ppbv | | 96 |
| 12) Acetone | 3.231 | 43 | 4498246 | 47.887 | ppbv | | 99 |
| 13) Trichlorofluoromethane | 2.191 | 101 | 19845 | 0.212 | ppbv | | 98 |
| 14) Isopropylalcohol | 3.210 | 45 | 4256715 | 51.100 | ppbv | | 99 |
| 20) Carbon Disulfide | 2.629 | 76 | 109078 | 1.513 | ppbv | | 96 |
| 21) Trichlorotrifluoroethane | 2.690 | 101 | 13840 | 0.209 | ppbv | | 97 |
| 25) Methyl Ethyl Ketone | 5.935 | 43 | 69255 | 0.715 | ppbv | | 98 |
| 27) Hexane | 3.532 | 57 | 34088 | 0.523 | ppbv | | 98 |
| 31) 1,2-Dichloroethane | 6.581 | 62 | 27298 | 0.497 | ppbv | | 98 |
| 32) 1,1,1-Trichloroethane | 5.748 | 97 | 6860149 | 90.121 | ppbv | | 92 |
| 35) Cyclohexane | 5.322 | 56 | 129971 | 2.539 | ppbv | | 92 |
| 39) Trichloroethene | 7.177 | 130 | 8804 | 0.188 | ppbv | | 92 |
| 41) 1,4-Dioxane | 8.209 | 88 | 31842 | 2.022 | ppbv# | | 95 |
| 43) Heptane | 6.444 | 43 | 38941 | 0.468 | ppbv | | 99 |
| 48) Toluene | 9.046 | 91 | 187256 | 1.971 | ppbv | | 99 |
| 52) Tetrachloroethene | 9.523 | 166 | 547437 | 9.626 | ppbv | | 99 |
| 56) Ethylbenzene | 10.932 | 91 | 32837 | 0.246 | ppbv | | 99 |
| 57) m,p-Xylene | 11.117 | 91 | 45651 | 0.454 | ppbv | | 99 |
| 84] Trichlorofluoromethane... | 2.194 | 101 | 19672 | 0.185 | ppbv | | 99 |
| 85] 1,1,1-Trichloroethane(... | 5.748 | 97 | 6863820 | 87.262 | ppbv# | | 92 |
| 89] Trichlorotrifluoroetha... | 2.690 | 101 | 13840 | 0.197 | ppbv | | 98 |
| 94] 1,2-Dichloroethane(sim) | 6.577 | 62 | 28707 | 0.458 | ppbv | | 99 |
| 98] Trichloroethene(sim) | 7.173 | 130 | 9399 | 0.179 | ppbv | | 98 |
| 99] 1,4-Dioxane(sim) | 8.209 | 88 | 31842 | 2.025 | ppbv# | | 96 |
| 104] Tetrachloroethene(sim) | 9.518 | 166 | 572000 | 9.380 | ppbv | | 99 |
| 108] Ethylbenzene(sim) | 10.928 | 91 | 34783 | 0.239 | ppb | | 99 |
| 109] m,p-Xylene(sim) | 11.117 | 91 | 45645 | 0.460 | ppbv | | 98 |

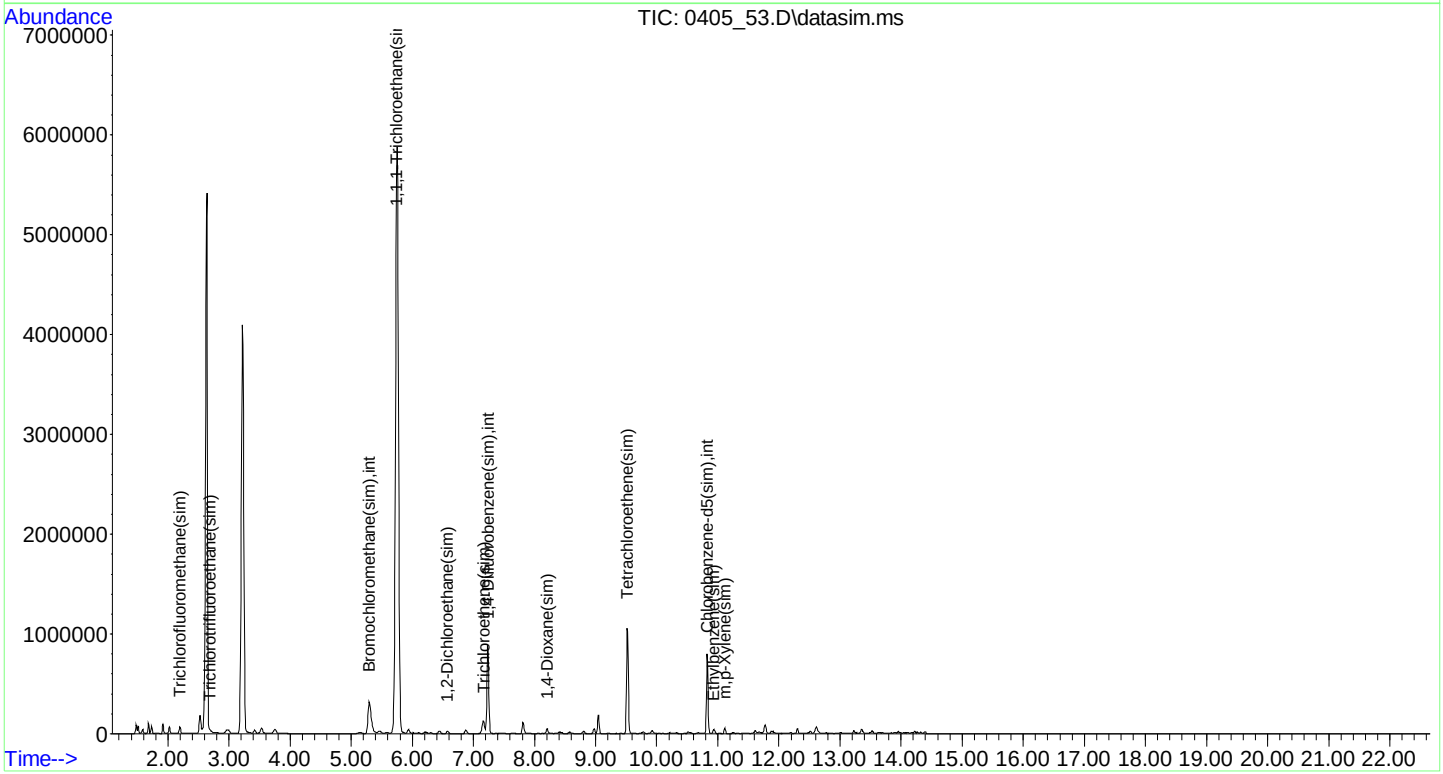
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

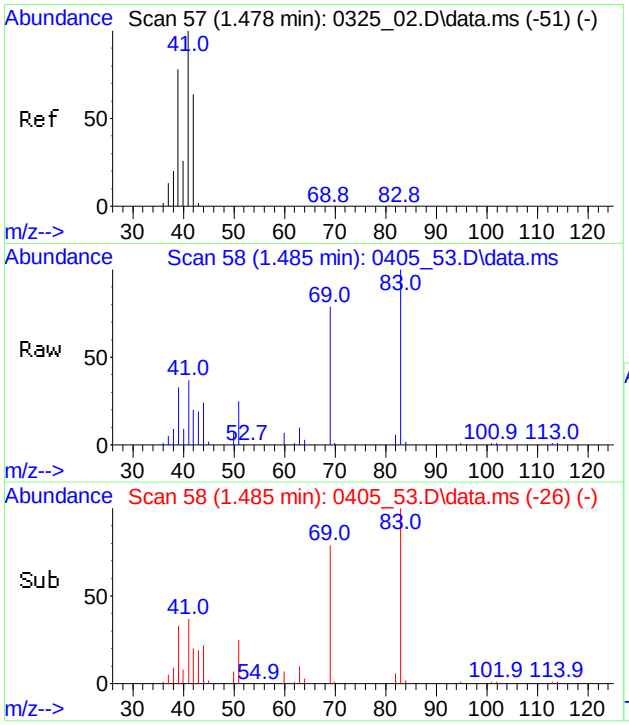
Quantitation Report (QT Reviewed)

Data Path : H:\AIR2021\CHEM24\04APR\05\
Data File : 0405_53.D
Acq On : 6 Apr 2021 11:07 pm
Operator : Keith
Client ID : SS-3
Lab ID : CH92064
ALS Vial : 51 Sample Multiplier: 1

Quant Time: Apr 07 08:27:47 2021
Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 26 09:02:26 2021
Response via : Initial Calibration



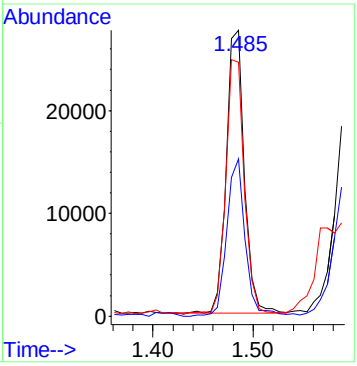



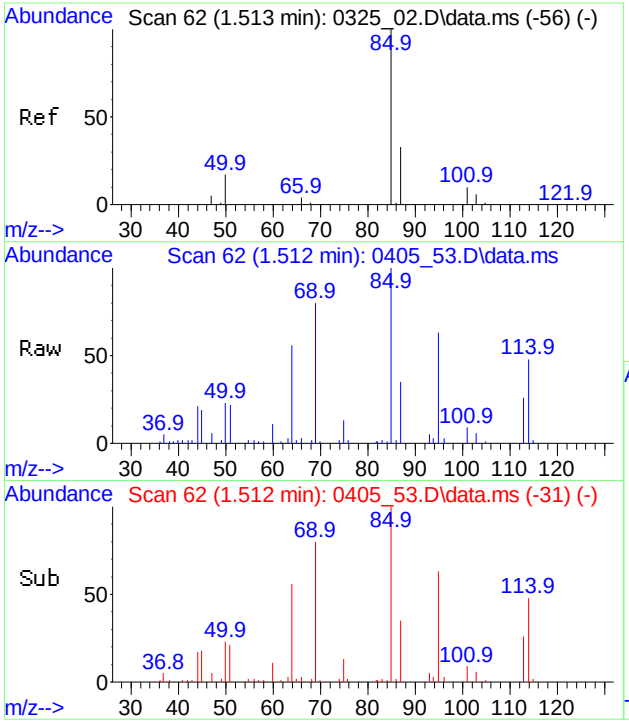



#2
Propylene
Conc: 8$ 0.950 ppbv
RT: 1.485 min Scan# 58
Delta R.T. 0.021 min
Lab File: 0405_53.D
Acq: 6 Apr 2021 11:07 pm

Tgt Ion: 41 Resp: 34570

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 56.3 | 52.0 | 78.0 |
| 39 | 92.1 | 61.8 | 92.6 |

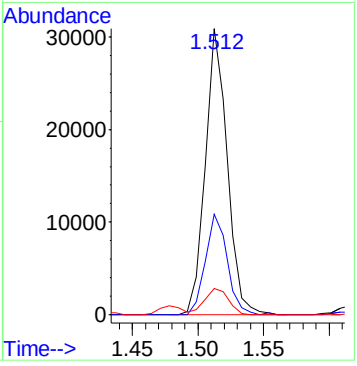


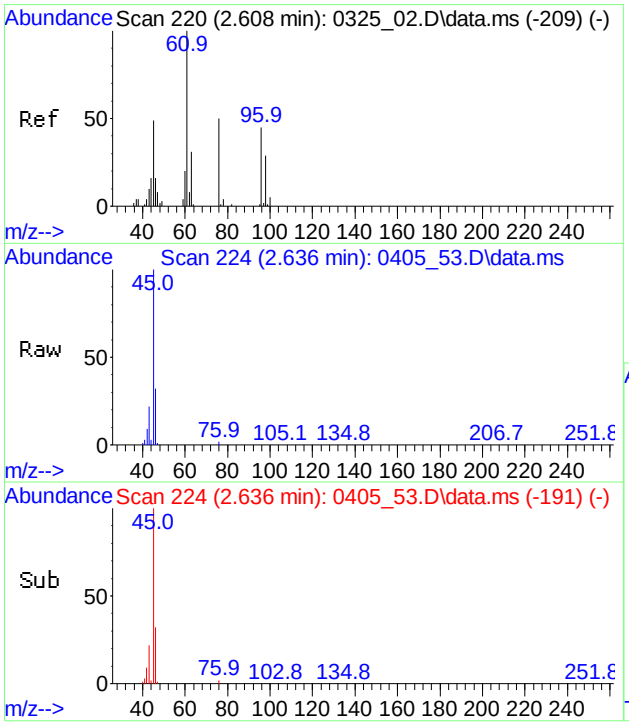




#3
Dichlorodifluoromethane
Conc: 8$ 0.531 ppbv
RT: 1.512 min Scan# 62
Delta R.T. 0.013 min
Lab File: 0405_53.D
Acq: 6 Apr 2021 11:07 pm

Tgt Ion: 85 Resp: 35443

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 34.9 | 26.6 | 40.0 |
| 101 | 9.9 | 7.9 | 11.9 |

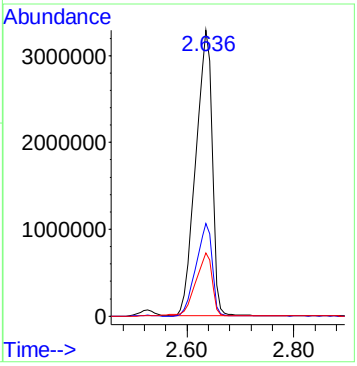


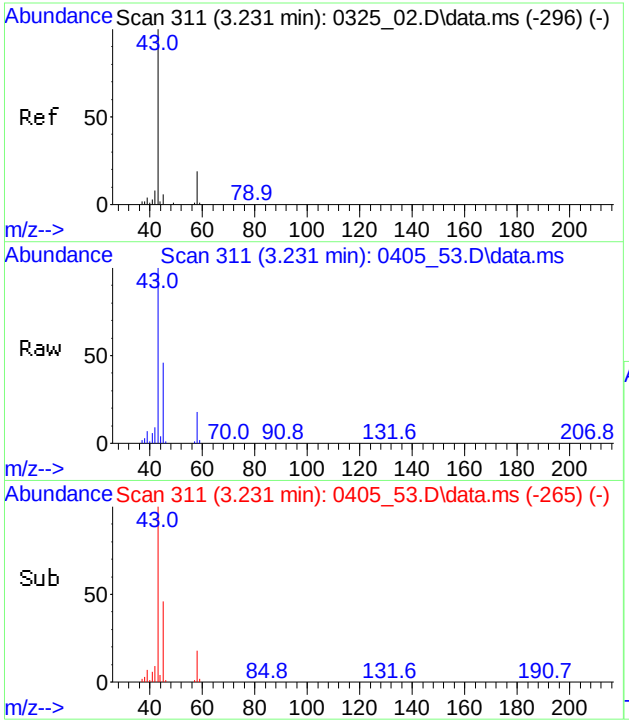



#10
Ethanol
Conc: 8$ 435.202 ppbv
RT: 2.636 min Scan# 224
Delta R.T. 0.041 min
Lab File: 0405_53.D
Acq: 6 Apr 2021 11:07 pm

Tgt Ion: 45 Resp: 7065663

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 31.9 | 27.8 | 41.6 |
| 43 | 22.3 | 17.3 | 25.9 |

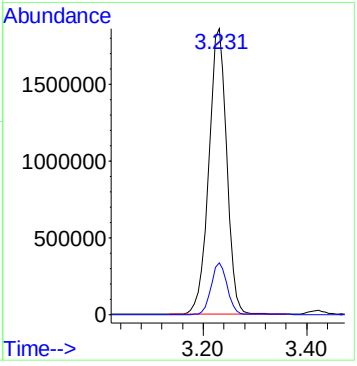


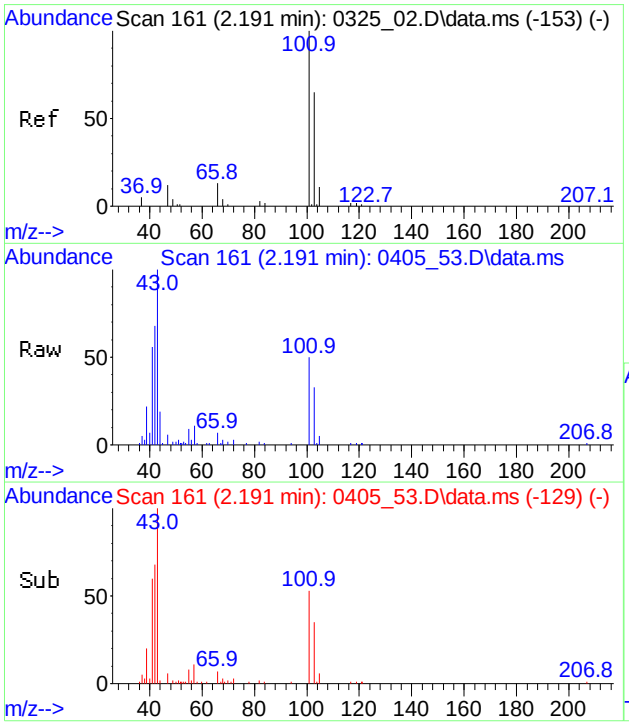




#12
Acetone
Conc: 8$ 47.887 ppbv
RT: 3.231 min Scan# 311
Delta R.T. 0.014 min
Lab File: 0405_53.D
Acq: 6 Apr 2021 11:07 pm

Tgt Ion: 43 Resp: 4498246

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 16.1 | 13.2 | 19.8 |

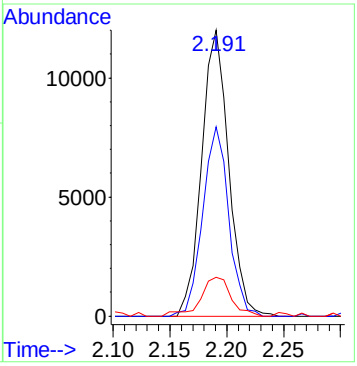


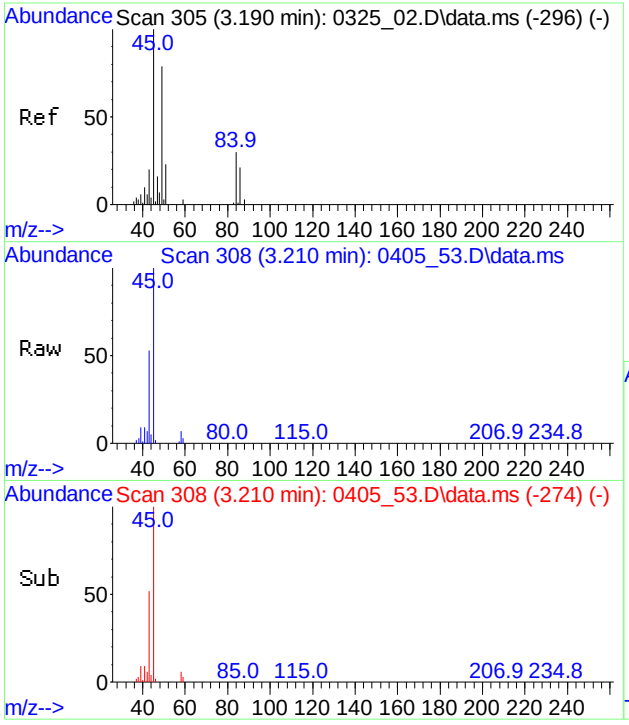



#13
Trichlorofluoromethane
Conc: 8$ 0.212 ppbv
RT: 2.191 min Scan# 161
Delta R.T. 0.021 min
Lab File: 0405_53.D
Acq: 6 Apr 2021 11:07 pm

Tgt Ion:101 Resp: 19845

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 63.7 | 51.5 | 77.3 |
| 66 | 15.2 | 10.6 | 15.8 |

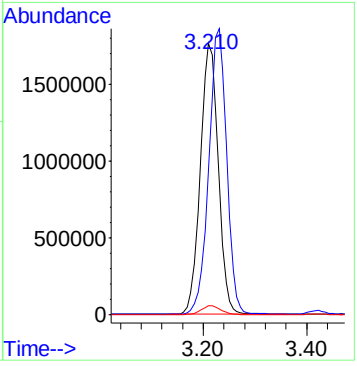


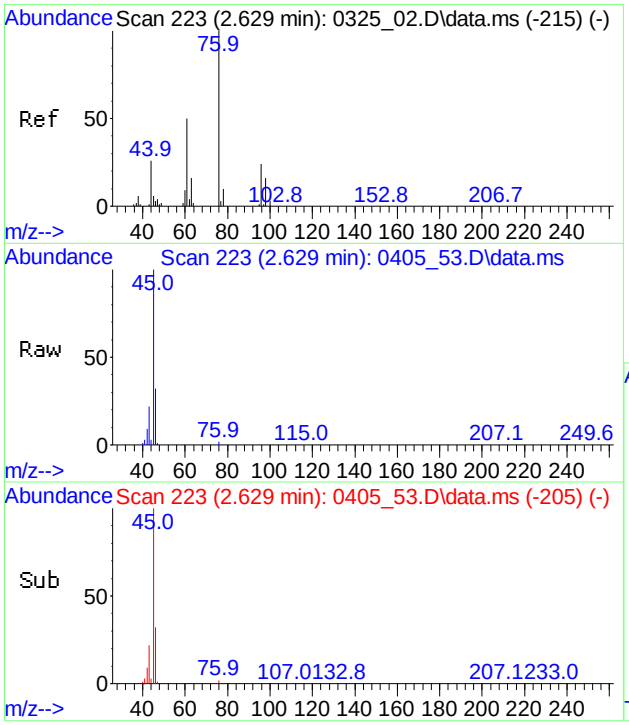




#14
Isopropylalcohol
Conc: 8$ 51.100 ppbv
RT: 3.210 min Scan# 308
Delta R.T. 0.034 min
Lab File: 0405_53.D
Acq: 6 Apr 2021 11:07 pm

Tgt Ion: 45 Resp: 4256715

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 105.7 | 84.1 | 126.1 |
| 59 | 3.5 | 2.6 | 4.0 |

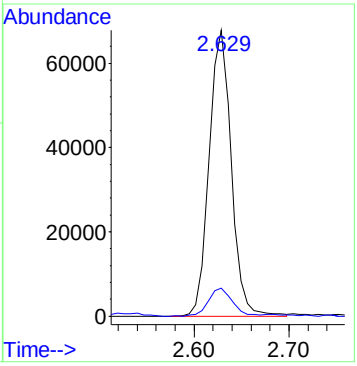


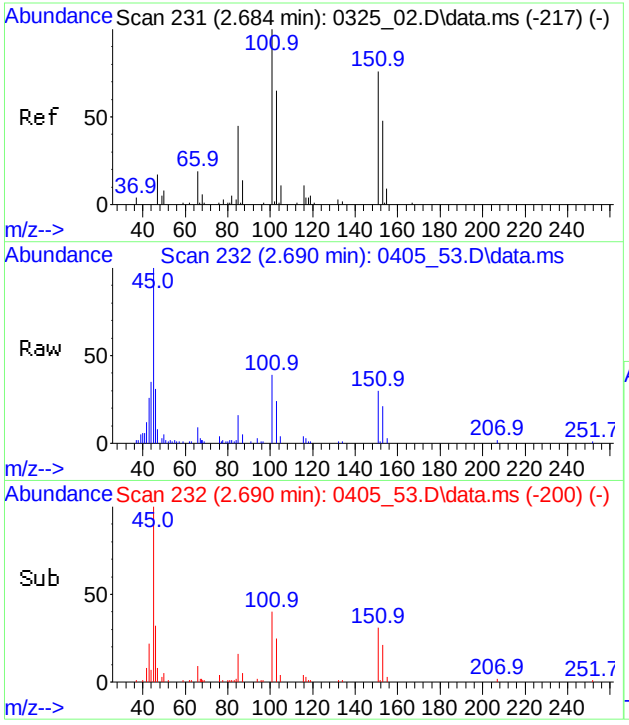



#20
Carbon Disulfide
Conc: 8$ 1.513 ppbv
RT: 2.629 min Scan# 223
Delta R.T. 0.021 min
Lab File: 0405_53.D
Acq: 6 Apr 2021 11:07 pm

Tgt Ion: 76 Resp: 109078

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 11.0 | 7.7 | 11.5 |

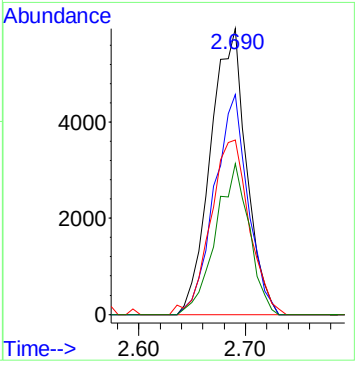


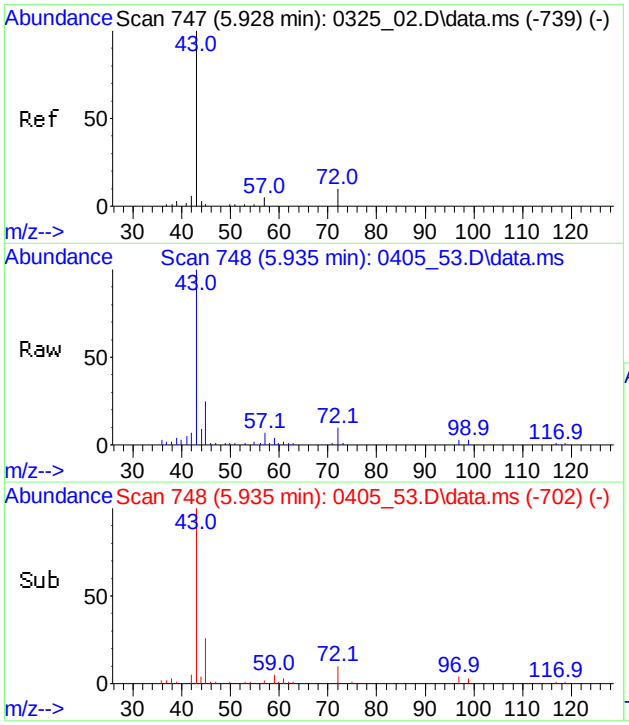




#21
Trichlorotrifluoroethane
Conc: 8$ 0.209 ppbv
RT: 2.690 min Scan# 232
Delta R.T. 0.020 min
Lab File: 0405_53.D
Acq: 6 Apr 2021 11:07 pm

Tgt Ion:101 Resp: 13840

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 151 | 72.3 | 62.2 | 93.4 |
| 103 | 65.9 | 51.4 | 77.2 |
| 153 | 49.5 | 39.7 | 59.5 |

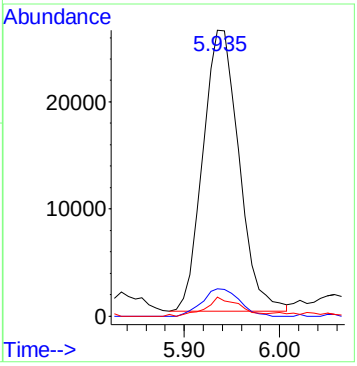


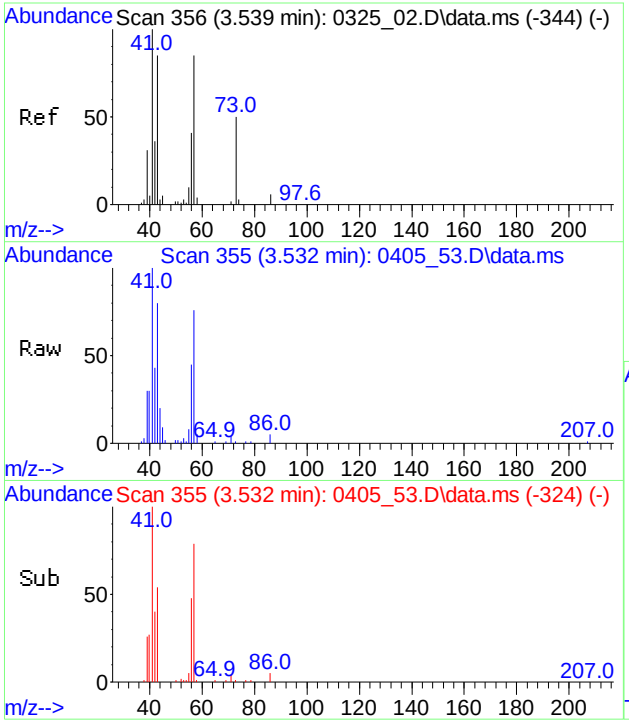



#25
Methyl Ethyl Ketone
Conc: 8$ 0.715 ppbv
RT: 5.935 min Scan# 748
Delta R.T. 0.029 min
Lab File: 0405_53.D
Acq: 6 Apr 2021 11:07 pm

Tgt Ion: 43 Resp: 69255

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 9.8 | 8.5 | 12.7 |
| 57 | 6.2 | 4.2 | 6.4 |

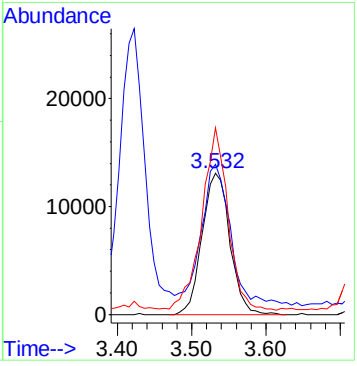


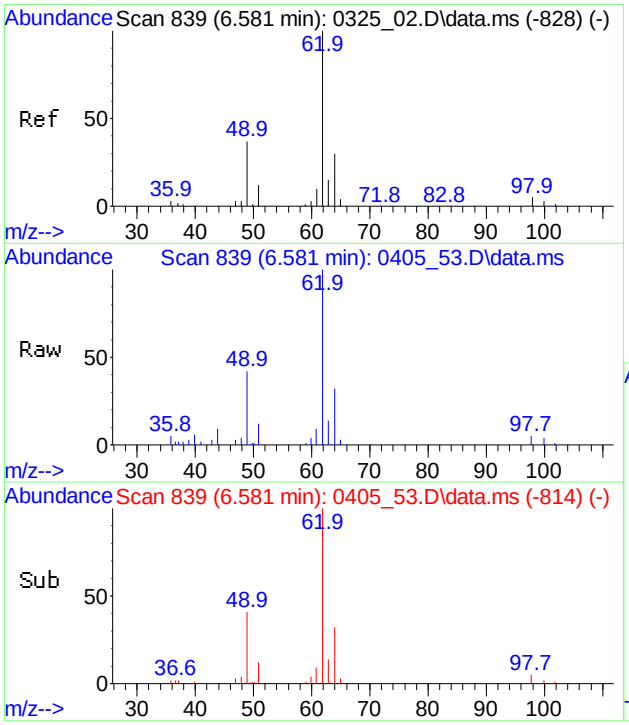




#27
Hexane
Conc: 8$ 0.523 ppbv
RT: 3.532 min Scan# 355
Delta R.T. 0.014 min
Lab File: 0405_53.D
Acq: 6 Apr 2021 11:07 pm

Tgt Ion: 57 Resp: 34088

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 43 | 106.0 | 83.3 | 124.9 |
| 41 | 121.4 | 95.6 | 143.4 |

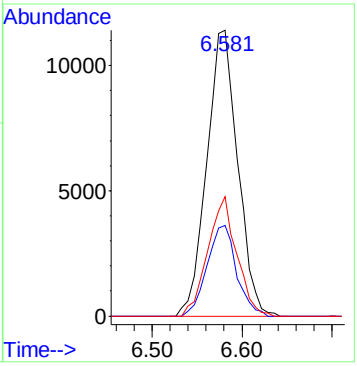


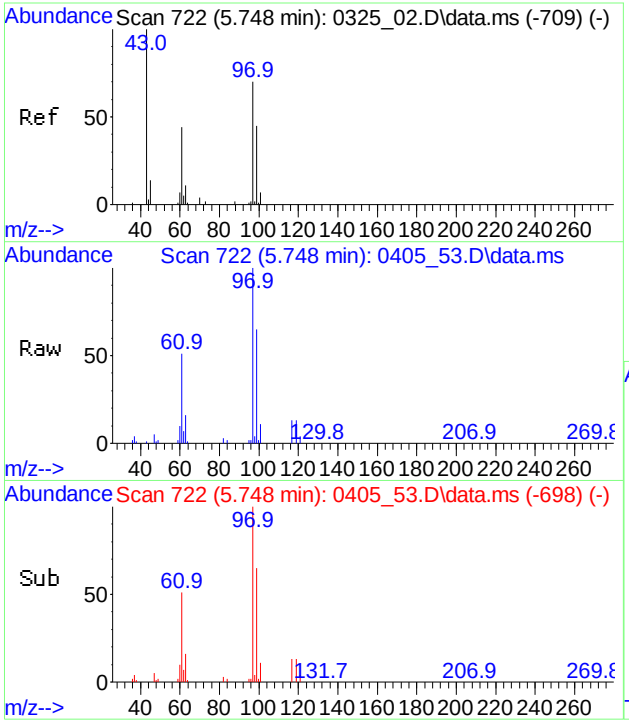



#31
1,2-Dichloroethane
Conc: 8$ 0.497 ppbv
RT: 6.581 min Scan# 839
Delta R.T. 0.021 min
Lab File: 0405_53.D
Acq: 6 Apr 2021 11:07 pm

Tgt Ion: 62 Resp: 27298

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 30.2 | 24.8 | 37.2 |
| 49 | 39.0 | 30.3 | 45.5 |

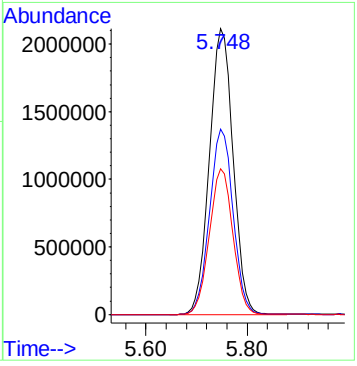


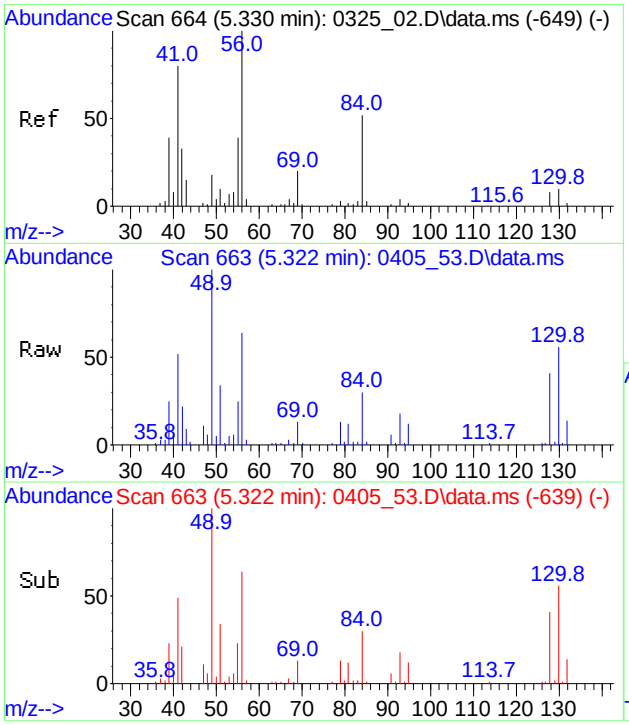




#32
1,1,1-Trichloroethane
Conc: 8$ 90.121 ppbv
RT: 5.748 min Scan# 722
Delta R.T. 0.022 min
Lab File: 0405_53.D
Acq: 6 Apr 2021 11:07 pm

Tgt Ion: 97 Resp: 6860149

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 64.5 | 51.3 | 76.9 |
| 61 | 50.7 | 50.1 | 75.1 |

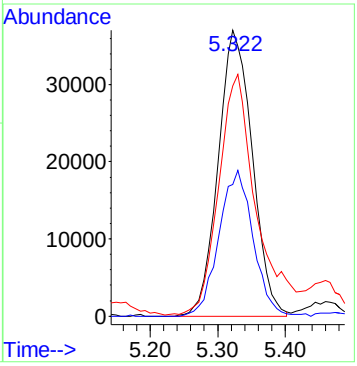


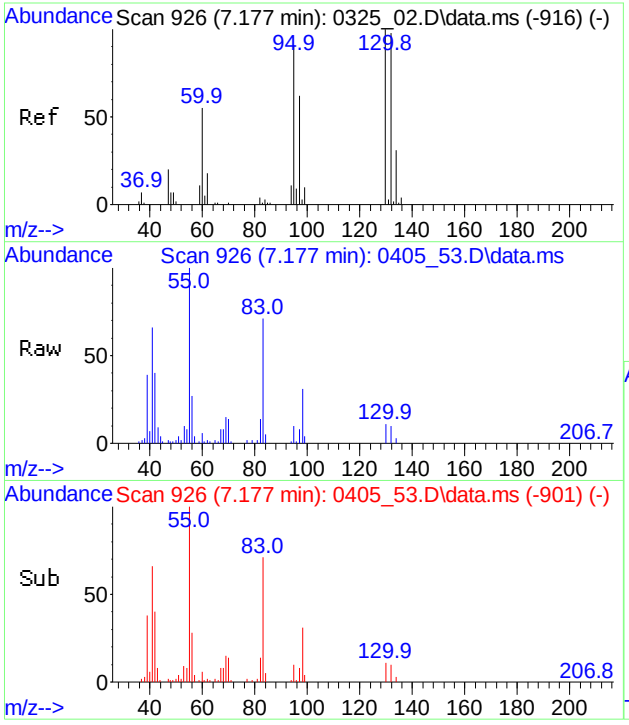



#35
Cyclohexane
Conc: 8$ 2.539 ppbv
RT: 5.322 min Scan# 663
Delta R.T. 0.021 min
Lab File: 0405_53.D
Acq: 6 Apr 2021 11:07 pm

Tgt Ion: 56 Resp: 129971

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 84 | 50.8 | 42.2 | 63.4 |
| 41 | 89.6 | 64.1 | 96.1 |

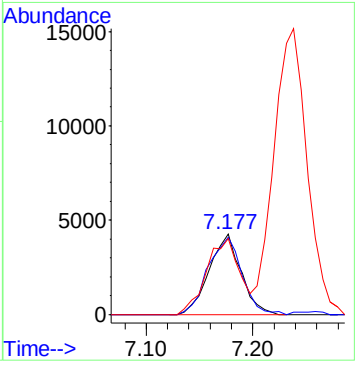


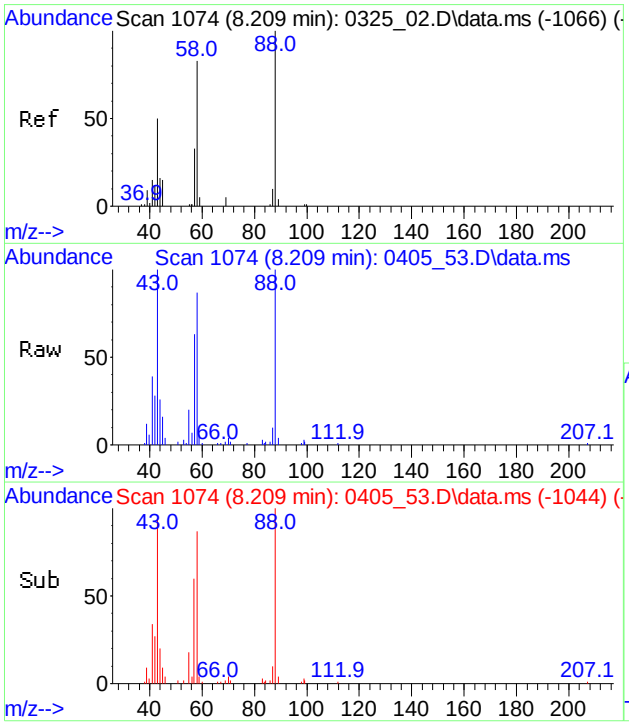




#39
Trichloroethene
Conc: 8$ 0.188 ppbv
RT: 7.177 min Scan# 926
Delta R.T. 0.021 min
Lab File: 0405_53.D
Acq: 6 Apr 2021 11:07 pm

Tgt Ion:130 Resp: 8804

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 132 | 102.9 | 76.6 | 115.0 |
| 95 | 99.0 | 72.3 | 108.5 |

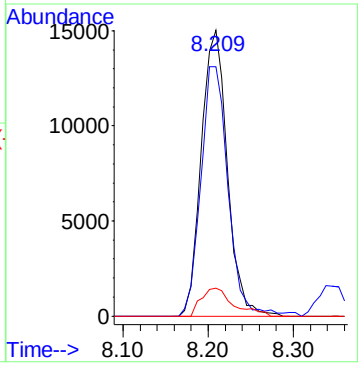


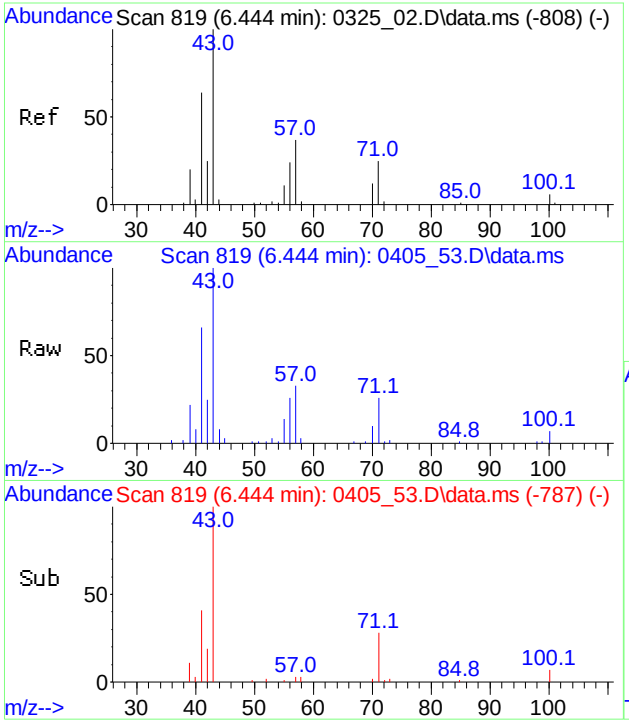



#41
1,4-Dioxane
Conc: 8$ 2.022 ppbv
RT: 8.209 min Scan# 1074
Delta R.T. 0.022 min
Lab File: 0405_53.D
Acq: 6 Apr 2021 11:07 pm

Tgt Ion: 88 Resp: 31842

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 58 | 91.2 | 69.8 | 104.8 |
| 87 | 12.1 | 7.5 | 11.3# |

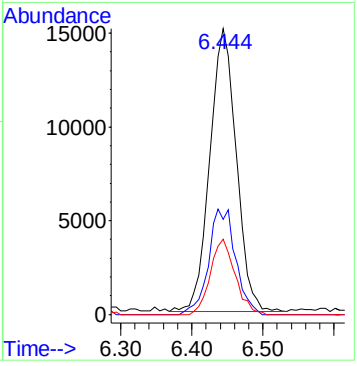


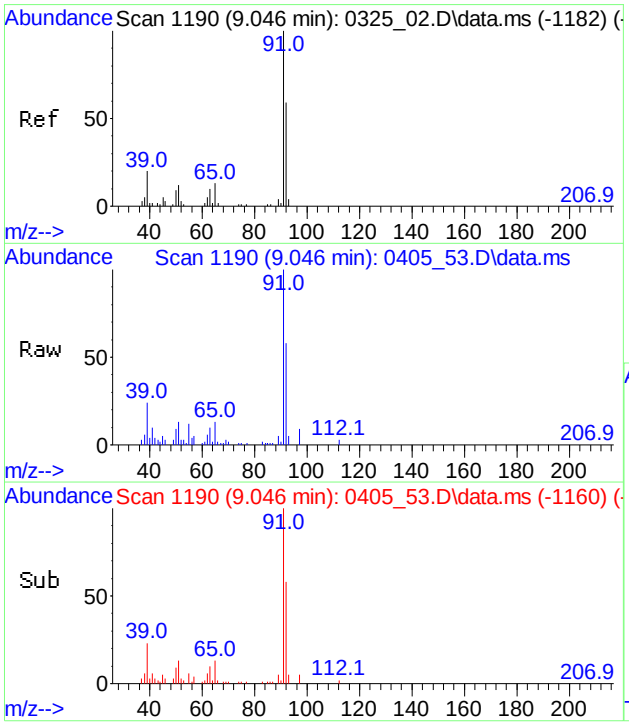




#43
Heptane
Conc: 8$ 0.468 ppbv
RT: 6.444 min Scan# 819
Delta R.T. 0.021 min
Lab File: 0405_53.D
Acq: 6 Apr 2021 11:07 pm

Tgt Ion: 43 Resp: 38941

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 57 | 38.0 | 29.5 | 44.3 |
| 71 | 24.9 | 19.8 | 29.8 |

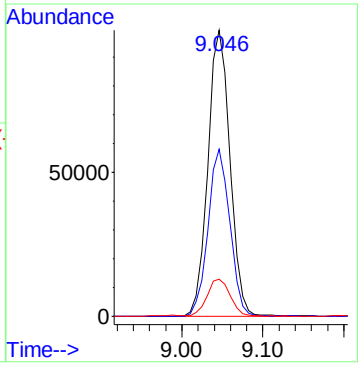


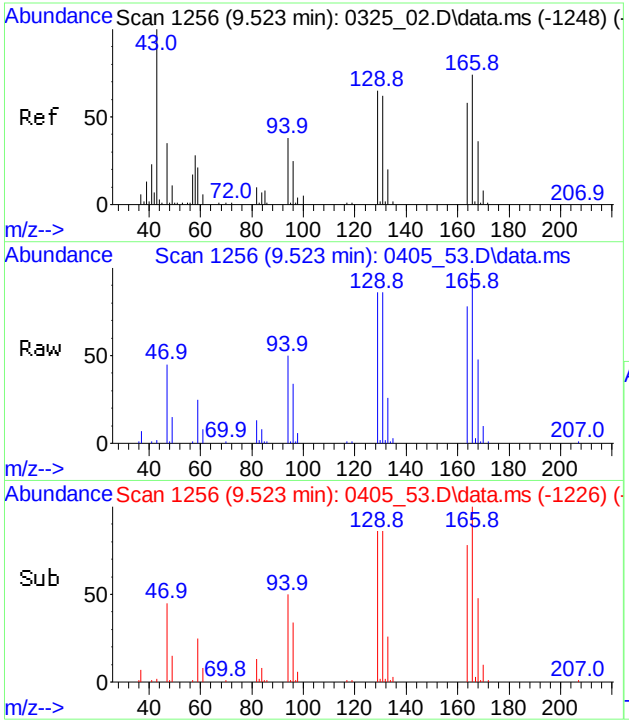



#48
Toluene
Conc: 8$ 1.971 ppbv
RT: 9.046 min Scan# 1190
Delta R.T. 0.014 min
Lab File: 0405_53.D
Acq: 6 Apr 2021 11:07 pm

Tgt Ion: 91 Resp: 187256

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 57.7 | 46.3 | 69.5 |
| 65 | 13.6 | 10.1 | 15.1 |

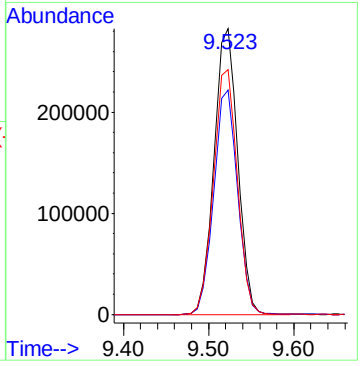


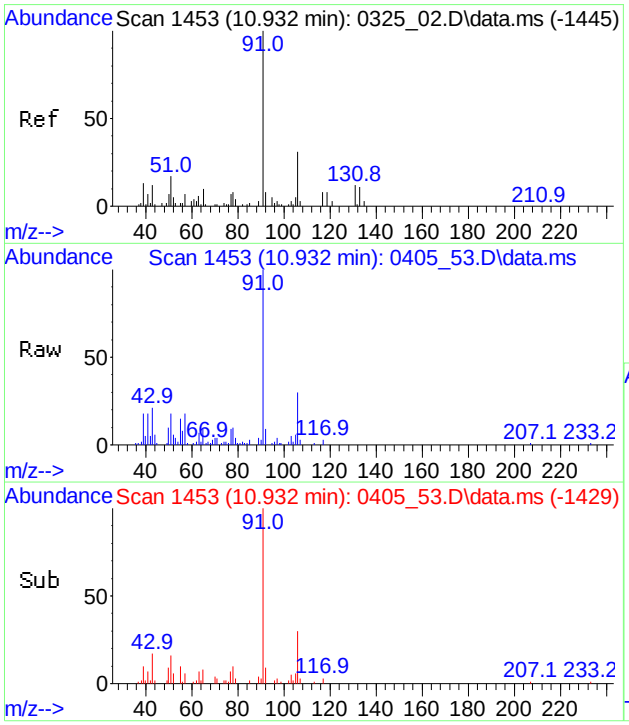




#52
Tetrachloroethene
Conc: 8$ 9.626 ppbv
RT: 9.523 min Scan# 1256
Delta R.T. 0.015 min
Lab File: 0405_53.D
Acq: 6 Apr 2021 11:07 pm

Tgt Ion:166 Resp: 547437

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 164 | 78.9 | 62.2 | 93.4 |
| 129 | 86.2 | 68.3 | 102.5 |

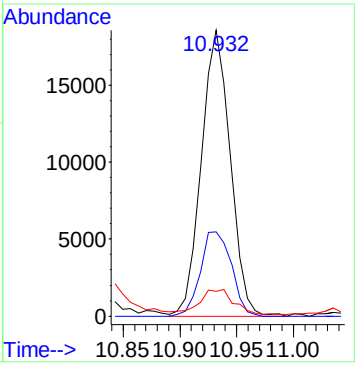


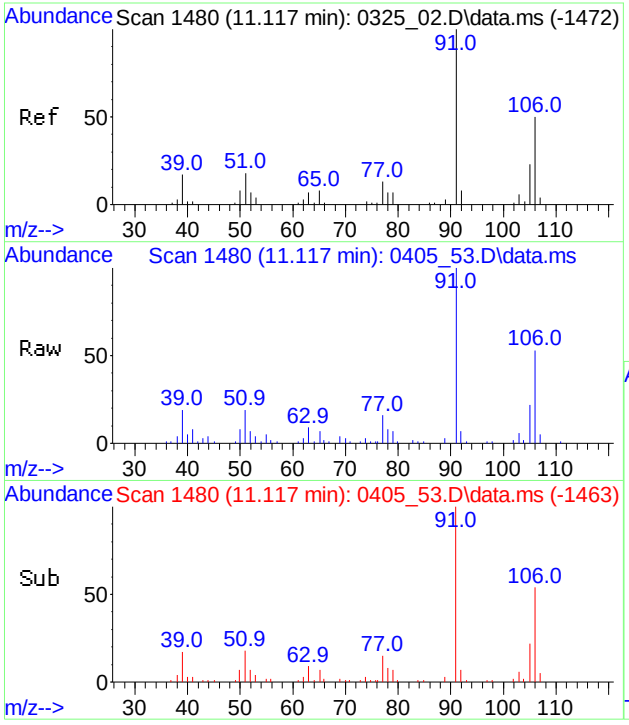



#56
Ethylbenzene
Conc: 8$ 0.246 ppbv
RT: 10.932 min Scan# 1453
Delta R.T. 0.014 min
Lab File: 0405_53.D
Acq: 6 Apr 2021 11:07 pm

Tgt Ion: 91 Resp: 32837

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 31.5 | 11.4 | 51.4 |
| 77 | 10.2 | 0.0 | 28.7 |

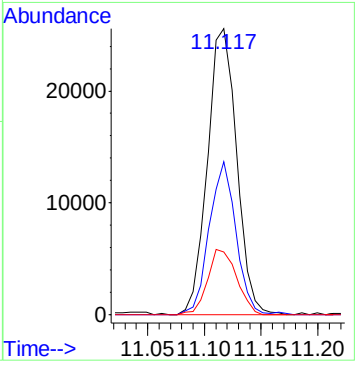


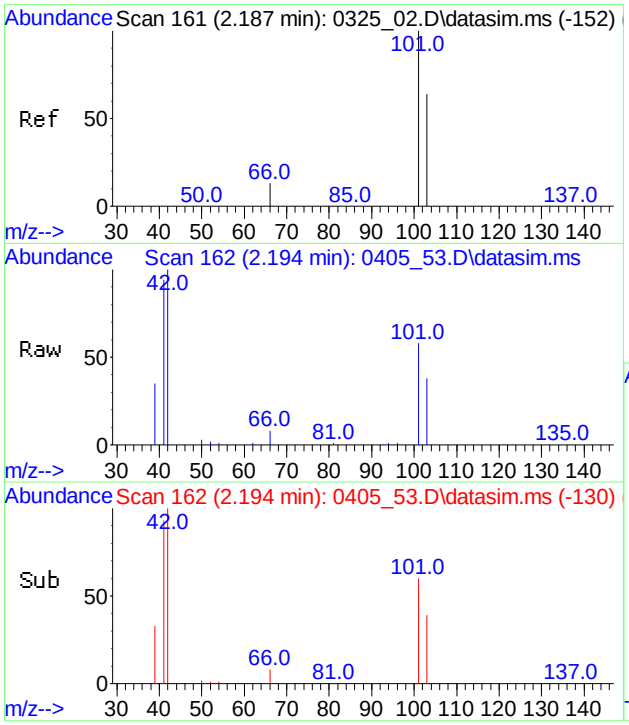




#57
m,p-Xylene
Conc: 8$ 0.454 ppbv
RT: 11.117 min Scan# 1480
Delta R.T. 0.013 min
Lab File: 0405_53.D
Acq: 6 Apr 2021 11:07 pm

Tgt Ion: 91 Resp: 45651

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 48.7 | 39.8 | 59.8 |
| 105 | 22.6 | 18.2 | 27.4 |

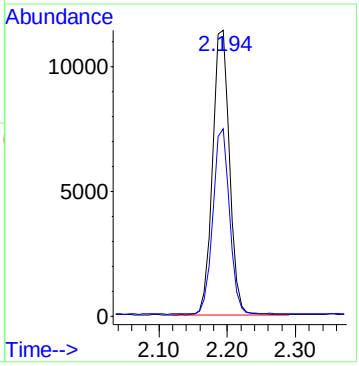


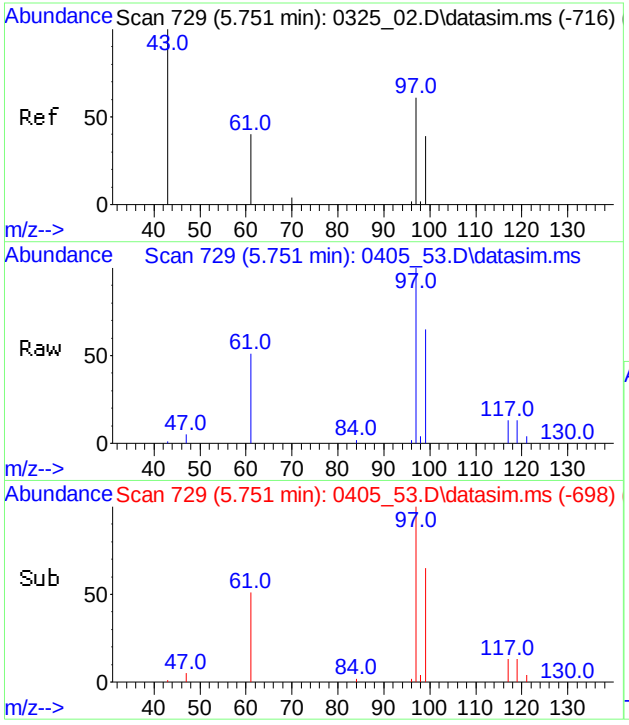



#84
Trichlorofluoromethane(sim)
Conc: 8$ 0.185 ppbv
RT: 2.194 min Scan# 162
Delta R.T. 0.021 min
Lab File: 0405_53.D
Acq: 6 Apr 2021 11:07 pm

Tgt Ion:101 Resp: 19672

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 63.9 | 51.9 | 77.9 |

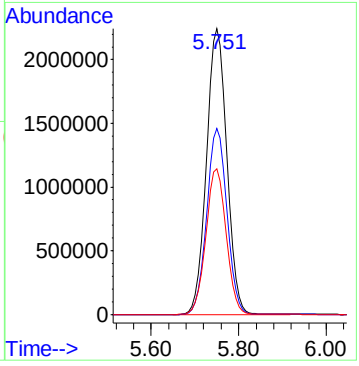


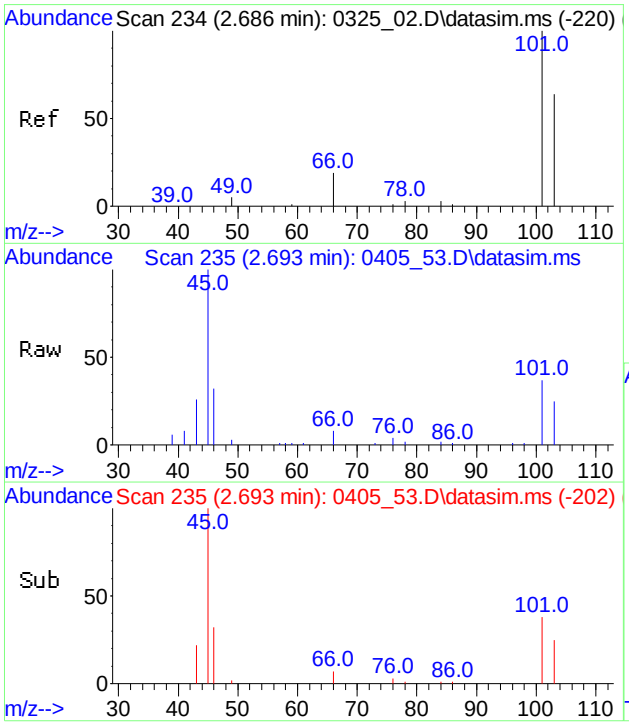




#85
1,1,1-Trichloroethane(sim)
Conc: 8$ 87.262 ppbv
RT: 5.748 min Scan# 729
Delta R.T. 0.022 min
Lab File: 0405_53.D
Acq: 6 Apr 2021 11:07 pm

Tgt Ion: 97 Resp: 6863820

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 64.5 | 64.0 | 64.0# |
| 61 | 50.7 | 50.0 | 75.0 |

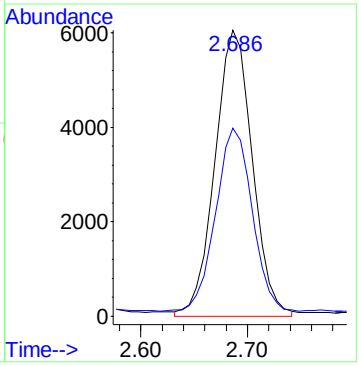


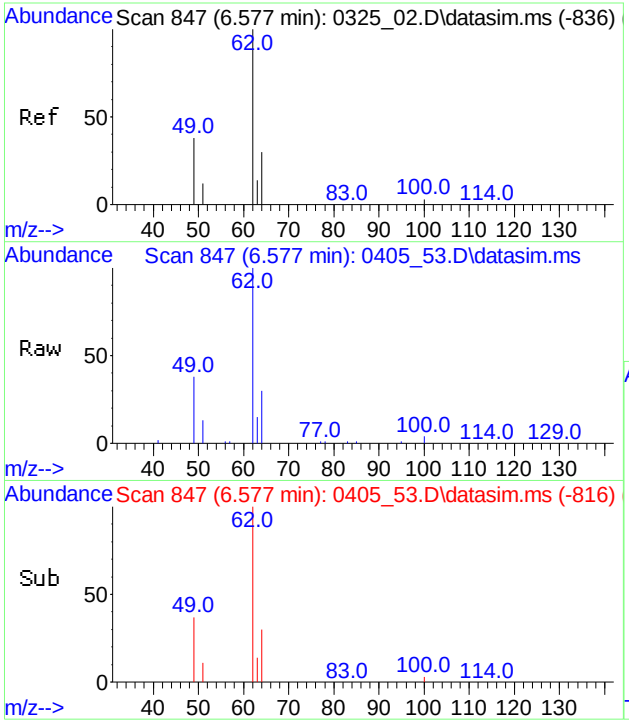



#89
Trichlorotrifluoroethane(sim)
Conc: 8$ 0.197 ppbv
RT: 2.690 min Scan# 235
Delta R.T. 0.020 min
Lab File: 0405_53.D
Acq: 6 Apr 2021 11:07 pm

Tgt Ion:101 Resp: 13840

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 65.9 | 51.4 | 77.2 |

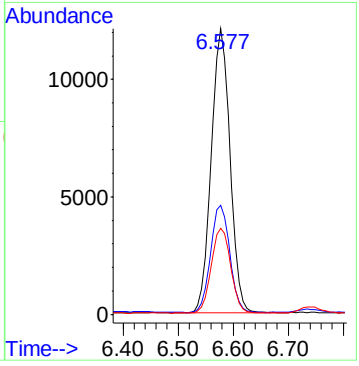


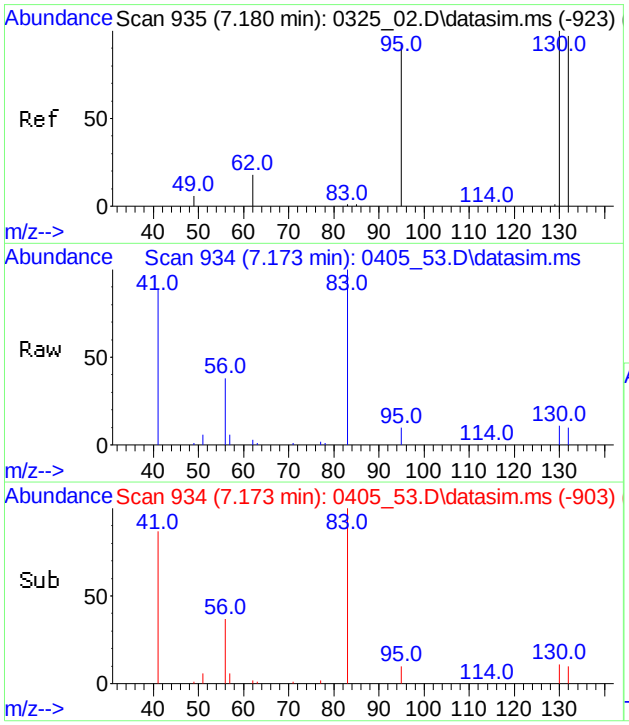




#94
1,2-Dichloroethane(sim)
Conc: 8$ 0.458 ppbv
RT: 6.577 min Scan# 847
Delta R.T. 0.014 min
Lab File: 0405_53.D
Acq: 6 Apr 2021 11:07 pm

Tgt Ion: 62 Resp: 28707

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 49 | 38.4 | 0.7 | 73.7 |
| 64 | 30.7 | 24.3 | 36.5 |

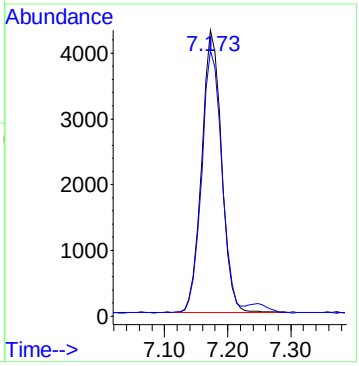


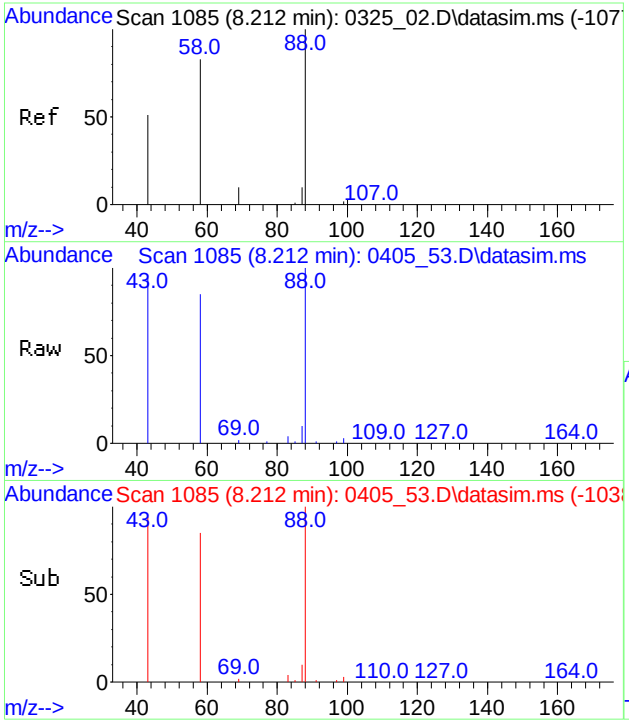



#98
Trichloroethene(sim)
Conc: 8$ 0.179 ppbv
RT: 7.173 min Scan# 934
Delta R.T. 0.014 min
Lab File: 0405_53.D
Acq: 6 Apr 2021 11:07 pm

Tgt Ion:130 Resp: 9399

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 132 | 94.6 | 77.1 | 115.7 |

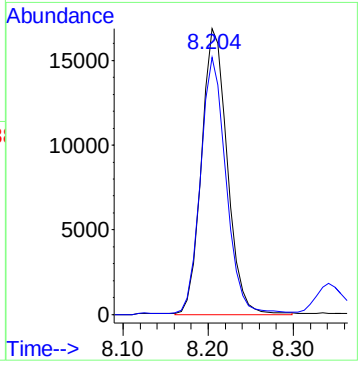


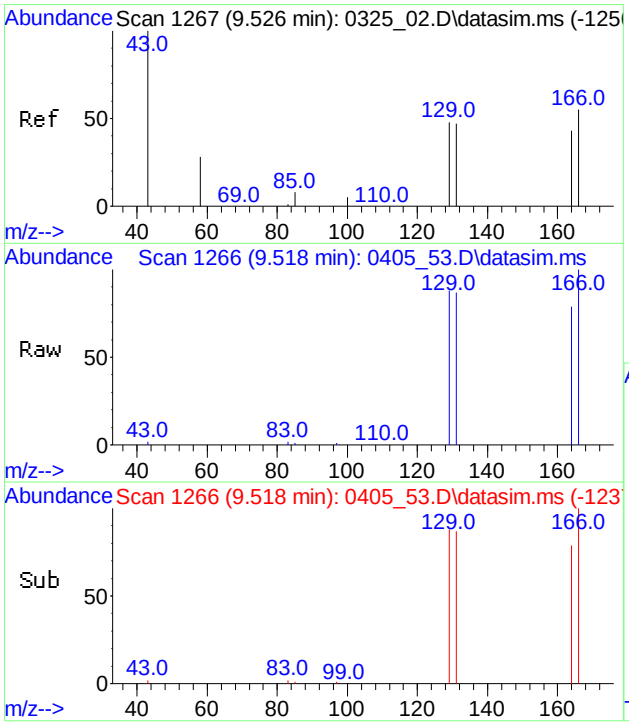




#99
1,4-Dioxane(sim)
Conc: 8$ 2.025 ppbv
RT: 8.209 min Scan# 1085
Delta R.T. 0.022 min
Lab File: 0405_53.D
Acq: 6 Apr 2021 11:07 pm

Tgt Ion: 88 Resp: 31842

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 58 | 91.2 | 83.8 | 90.8# |

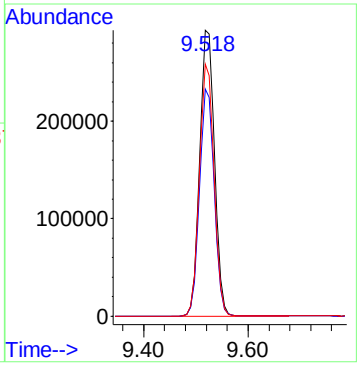


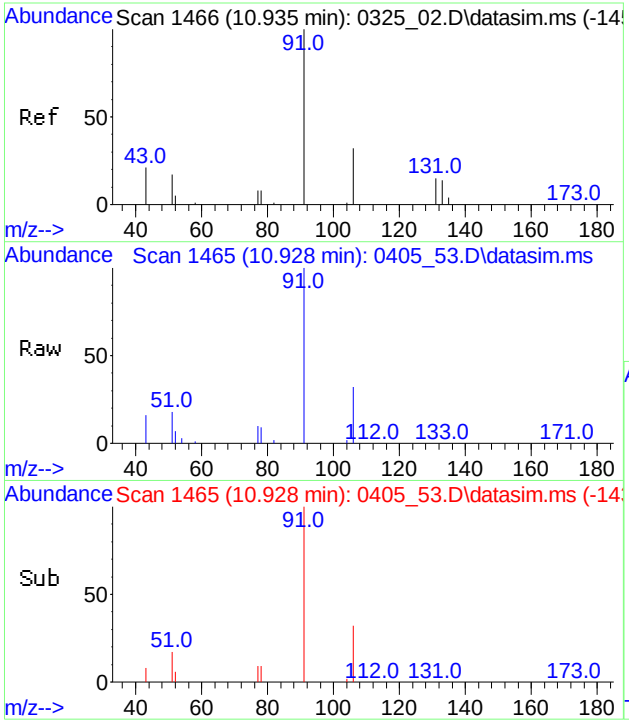



#104
Tetrachloroethene(sim)
Conc: 8$ 9.380 ppbv
RT: 9.518 min Scan# 1266
Delta R.T. 0.007 min
Lab File: 0405_53.D
Acq: 6 Apr 2021 11:07 pm

Tgt Ion:166 Resp: 572000

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 164 | 78.8 | 58.4 | 98.4 |
| 129 | 87.2 | 66.6 | 106.6 |

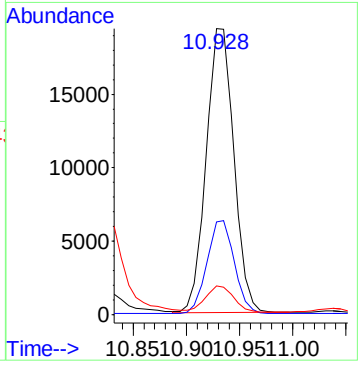


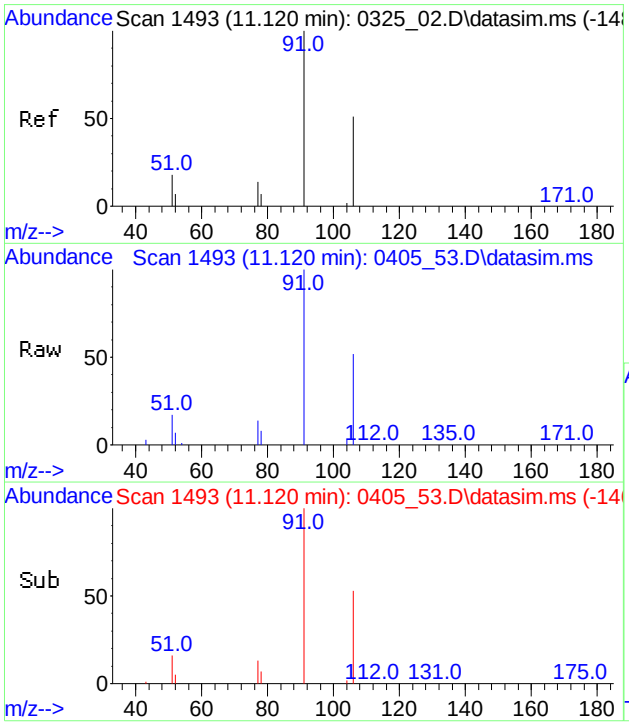




#108
Ethylbenzene(sim)
Conc: 8$ 0.239 ppb
RT: 10.928 min Scan# 1465
Delta R.T. 0.007 min
Lab File: 0405_53.D
Acq: 6 Apr 2021 11:07 pm

Tgt Ion: 91 Resp: 34783

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 32.4 | 25.8 | 38.8 |
| 77 | 9.6 | 7.0 | 10.6 |

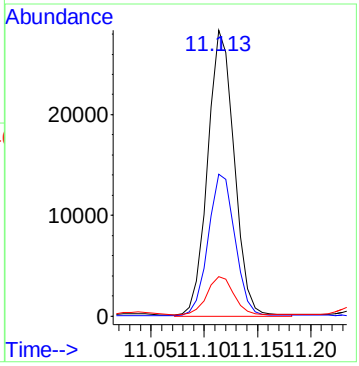





#109
m,p-Xylene(sim)
Conc: 8$ 0.460 ppbv
RT: 11.117 min Scan# 1493
Delta R.T. 0.013 min
Lab File: 0405_53.D
Acq: 6 Apr 2021 11:07 pm

Tgt Ion: 91 Resp: 45645

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 48.8 | 44.8 | 54.8 |
| 77 | 14.3 | 10.5 | 15.7 |



1

CLIENT ID

AIR ANALYSIS DATA SHEET

SS-3 5X

Client: GC-ENV Lab: Phoenix Env. Labs

SDG No.: GCH92051 Lab Sample ID: CH92064 5X

Canister: 367 Lab File ID: 0405_30.D

Instrument: CHEM20 Column: RTX-1 60M Date Received: 04/05/21

Purge Volume 200 (cc) Date Analyzed: 04/06/21

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 | |
| 75-71-8 | Dichlorodifluoromethane | 1.01 | U | 1.01 | 1.01 | |
| 64-17-5 | Ethanol | 541 | EDS | 2.66 | 2.66 | r |
| 67-64-1 | Acetone | 65.5 | DS | 2.11 | 2.11 | r |
| 67-63-0 | Isopropylalcohol | 62.4 | DS | 2.04 | 2.04 | r |
| 75-15-0 | Carbon Disulfide | 1.61 | U | 1.61 | 1.61 | |
| 78-93-3 | Methyl Ethyl Ketone | 1.70 | U | 1.70 | 1.70 | |
| 110-54-3 | Hexane | 1.42 | U | 1.42 | 1.42 | |
| 71-55-6 | 1,1,1-Trichloroethane | 111 | D | 0.917 | 0.917 | r |
| 110-82-7 | Cyclohexane | 2.84 | X | 1.45 | 1.45 | |
| 123-91-1 | 1,4-Dioxane | 1.80 | X | 1.39 | 1.39 | |
| 142-82-5 | Heptane | 1.22 | U | 1.22 | 1.22 | |
| 108-88-3 | Toluene | 1.77 | X | 1.33 | 1.33 | |
| 127-18-4 | Tetrachloroethene | 10.3 | X | 0.184 | 0.184 | |
| 100-41-4 | Ethylbenzene | 1.15 | U | 1.15 | 1.15 | |
| 75-69-4 | Trichlorofluoromethane(sim) | 0.890 | U | 0.890 | 0.890 | |
| 107-06-2 | 1,2-Dichloroethane(sim) | 1.24 | U | 1.24 | 1.24 | |
| 76-13-1 | Trichlorotrifluoroethane(sim) | 0.653 | U | 0.653 | 0.653 | |
| 79-01-6 | Trichloroethene(sim) | 0.207 | X | 0.186 | 0.186 | |
| 179601-23-1 | m,p-Xylene(sim) | 1.15 | U | 1.15 | 1.15 | |
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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:\AIR2021\CHEM20\04APR\05\
Data File : 0405_30.D
Acq On : 6 Apr 2021 3:41 am
Operator :
Client ID : SS-3 5X
Lab ID : CH92064 5X
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Apr 06 08:27:22 2021
Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0329.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Mar 29 13:12:48 2021
Response via : Initial Calibration

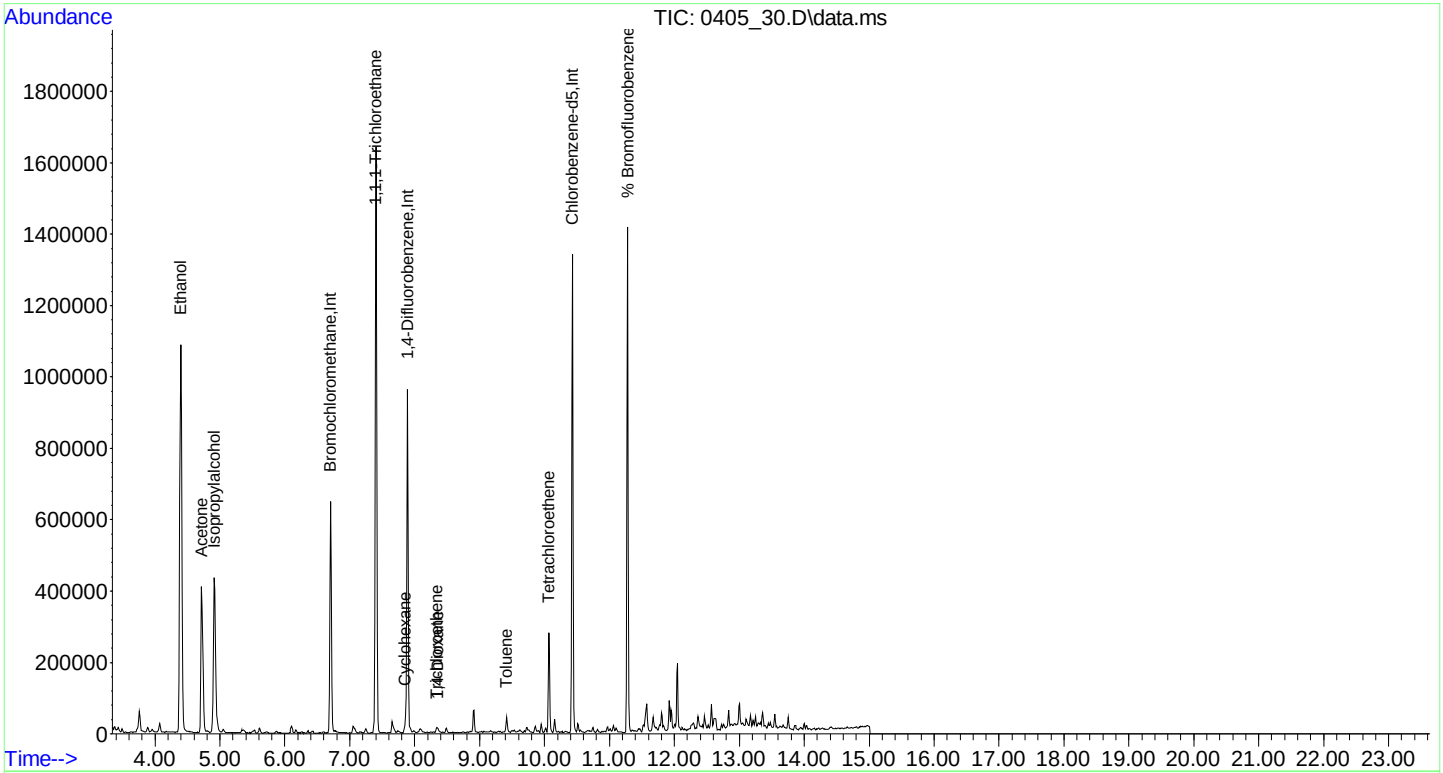
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Bromochloromethane | 6.704 | 130 | 134876 | 10.000 | ng | | 0.00 |
| 37) 1,4-Difluorobenzene | 7.889 | 114 | 505084 | 10.000 | ng | | 0.00 |
| 54) Chlorobenzene-d5 | 10.430 | 82 | 262800 | 10.000 | ng | | 0.00 |
| 81) Bromochloromethane(sim) | 6.710 | 130 | 157326 | 10.000 | ng | # | 0.00 |
| 96) 1,4-Difluorobenzene(sim) | 7.889 | 114 | 505084 | 10.000 | ng | | 0.00 |
| 106) Chlorobenzene-d5(sim) | 10.430 | 82 | 262800 | 10.000 | ng | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 63) % Bromofluorobenzene | 11.281 | 95 | 319964 | 10.331 | ppbv | | 0.00 |
| Spiked Amount 10.000 | Range 70 - 130 | | Recovery = 103.30% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 11) Ethanol | 4.394 | 45 | 1231819 | 108.225 | ppbv# | | 73 |
| 12) Acetone | 4.717 | 43 | 544829 | 13.096 | ppbv# | | 86 |
| 14) Isopropylalcohol | 4.911 | 45 | 636223 | 12.480 | ppbv# | | 89 |
| 33) 1,1,1-Trichloroethane | 7.402 | 97 | 820744 | 22.150 | ppbv | | 94 |
| 36) Cyclohexane | 7.855 | 41 | 14046 | 0.569 | ppbv# | | 75 |
| 40) Trichloroethene | 8.334 | 130 | 889 | 0.046 | ppbv# | | 76 |
| 42) 1,4-Dioxane | 8.356 | 88 | 3228 | 0.361 | ppbv# | | 45 |
| 49) Toluene | 9.415 | 91 | 17096 | 0.355 | ppbv | | 97 |
| 53) Tetrachloroethene | 10.065 | 166 | 50055 | 2.068 | ppbv | | 84 |
| 87] 1,1,1-Trichloroethane(... | 7.407 | 97 | 892092 | 21.369 | ppbv# | | 97 |
| 99] Trichloroethene(sim) | 8.340 | 130 | 949 | 0.041 | ppbv | | 97 |
| 100] 1,4-Dioxane(sim) | 8.356 | 88 | 3228 | 0.355 | ppbv# | | 54 |
| 105] Tetrachloroethene(sim) | 10.070 | 166 | 60905 | 2.113 | ppbv | | 98 |

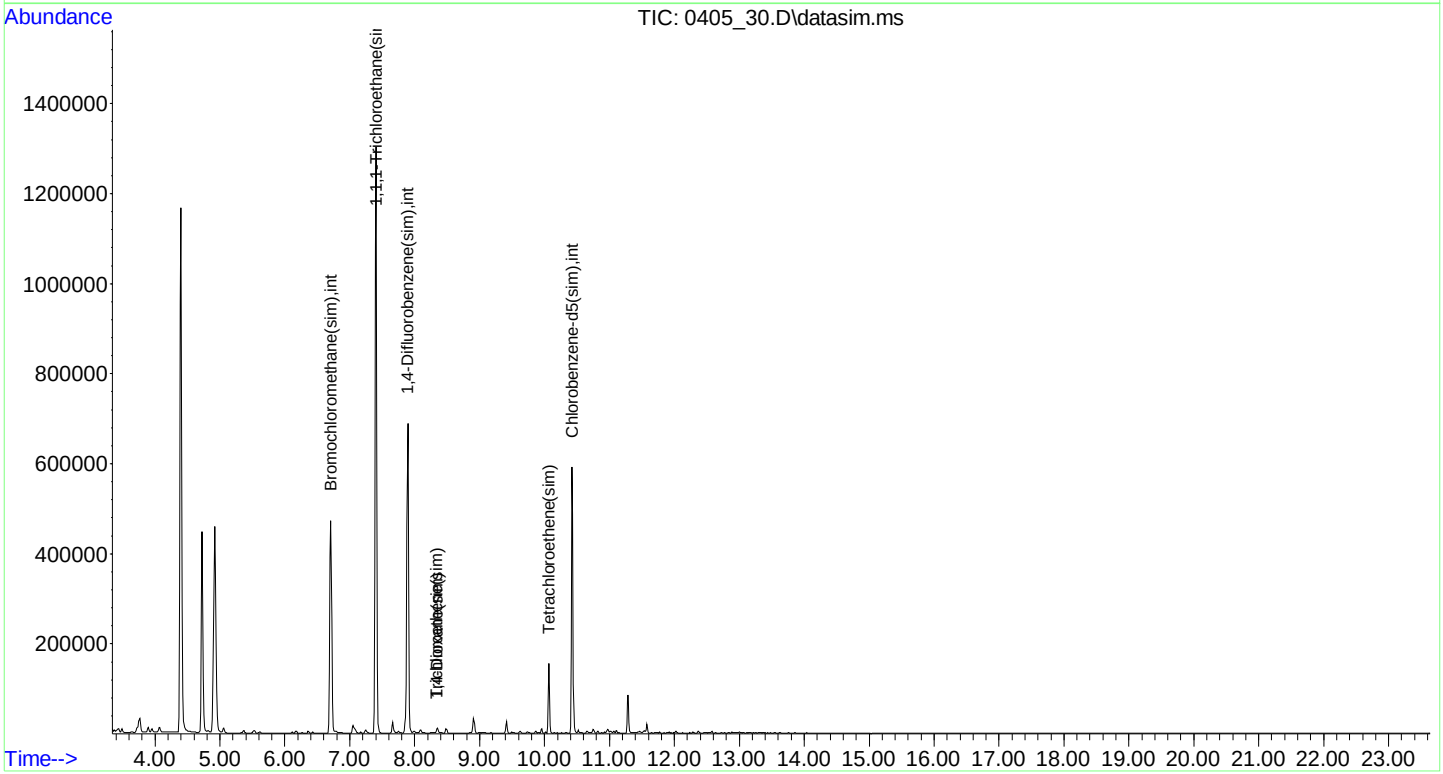
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

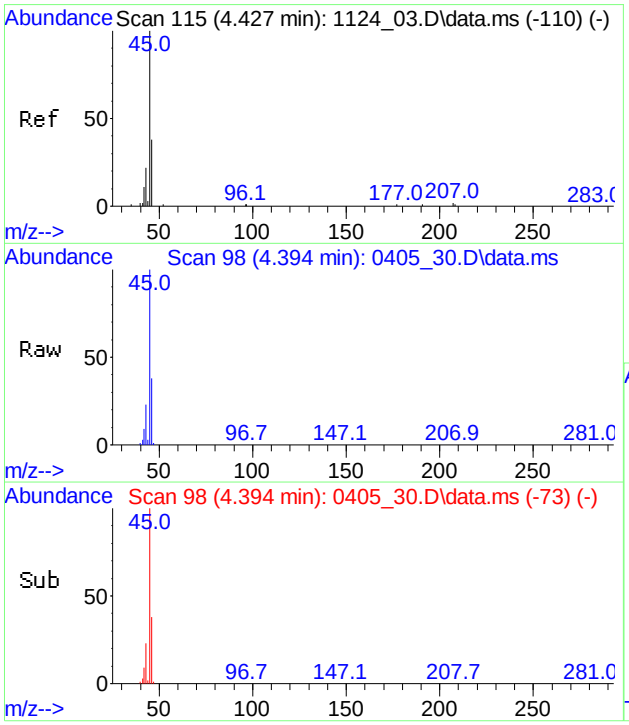
Quantitation Report (QT Reviewed)

Data Path : H:\AIR2021\CHEM20\04APR\05\
Data File : 0405_30.D
Acq On : 6 Apr 2021 3:41 am
Operator :
Client ID : SS-3 5X
Lab ID : CH92064 5X
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Apr 06 08:27:22 2021
Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0329.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Mar 29 13:12:48 2021
Response via : Initial Calibration



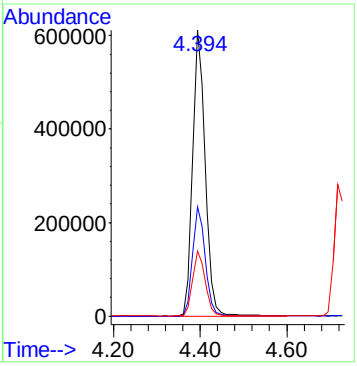



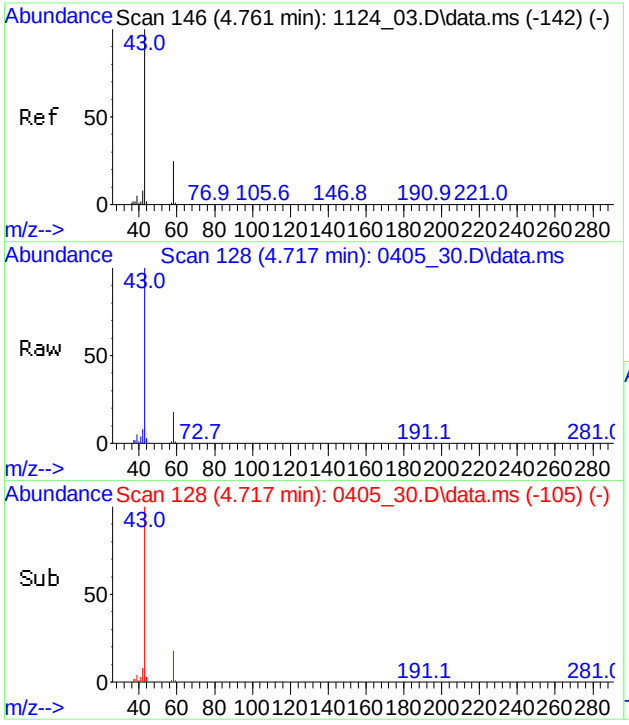



#11
Ethanol
Conc: 8$ 108.225 ppbv
RT: 4.394 min Scan# 98
Delta R.T. -0.032 min
Lab File: 0405_30.D
Acq: 6 Apr 2021 3:41 am

Tgt Ion: 45 Resp: 1231819

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 38.7 | 0.0 | 0.0# |
| 43 | 22.9 | 10.0 | 15.0# |

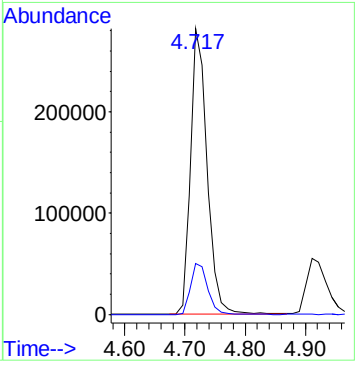


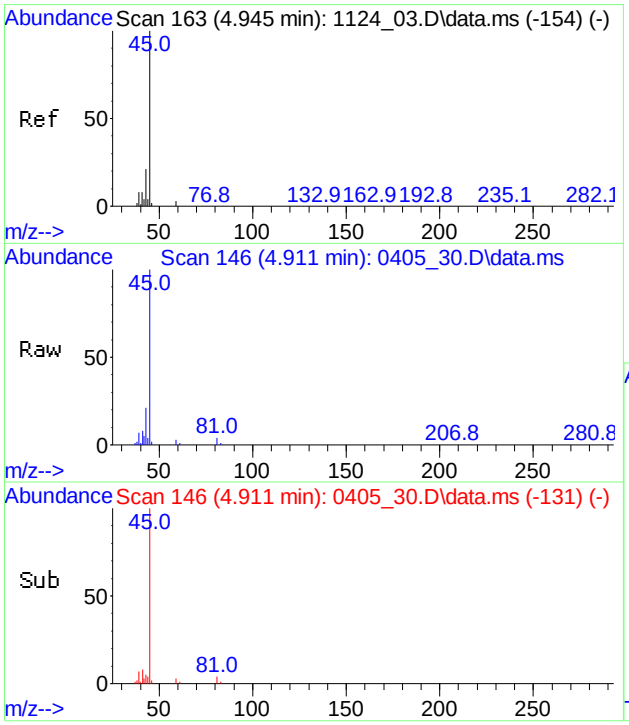




#12
Acetone
Conc: 8$ 13.096 ppbv
RT: 4.717 min Scan# 128
Delta R.T. -0.054 min
Lab File: 0405_30.D
Acq: 6 Apr 2021 3:41 am

Tgt Ion: 43 Resp: 544829

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 18.6 | 20.4 | 30.6# |

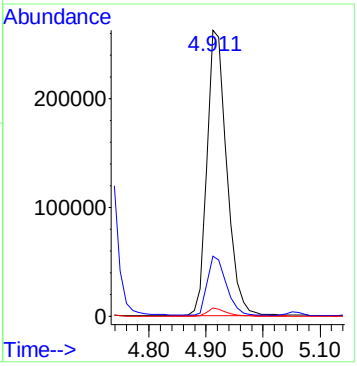


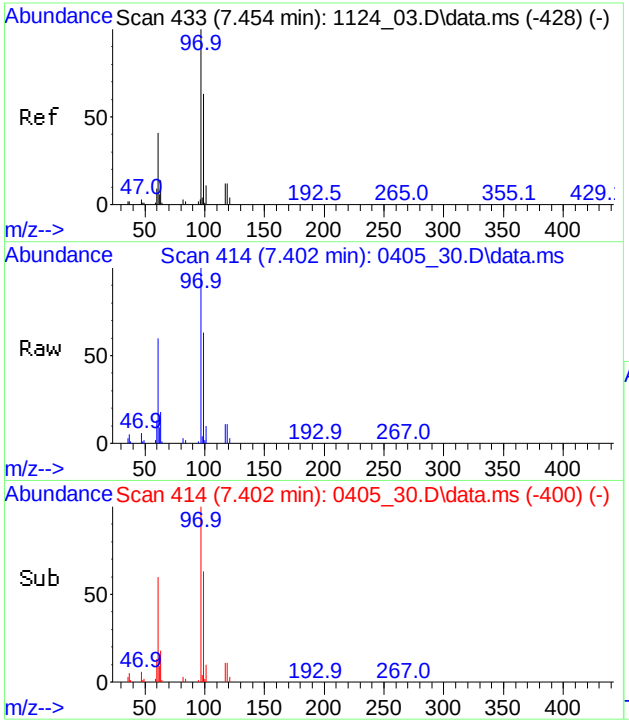



#14
Isopropylalcohol
Conc: 8$ 12.480 ppbv
RT: 4.911 min Scan# 146
Delta R.T. -0.044 min
Lab File: 0405_30.D
Acq: 6 Apr 2021 3:41 am

Tgt Ion: 45 Resp: 636223

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 19.8 | 20.6 | 31.0# |
| 59 | 2.6 | 2.1 | 3.1 |

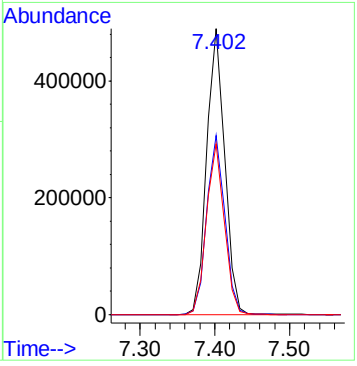


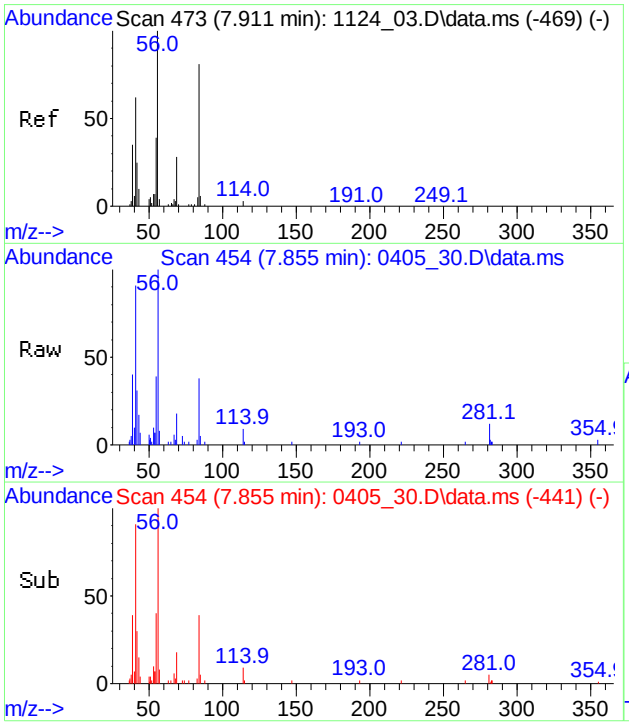




#33
1,1,1-Trichloroethane
Conc: 8$ 22.150 ppbv
RT: 7.402 min Scan# 414
Delta R.T. -0.000 min
Lab File: 0405_30.D
Acq: 6 Apr 2021 3:41 am

Tgt Ion: 97 Resp: 820744

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 62.8 | 53.8 | 80.8 |
| 61 | 59.3 | 51.4 | 77.0 |

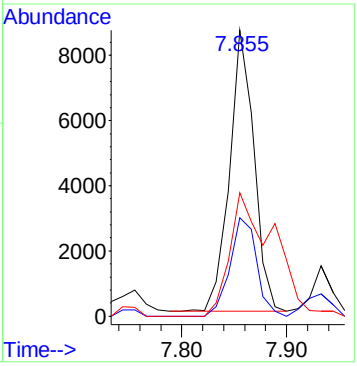


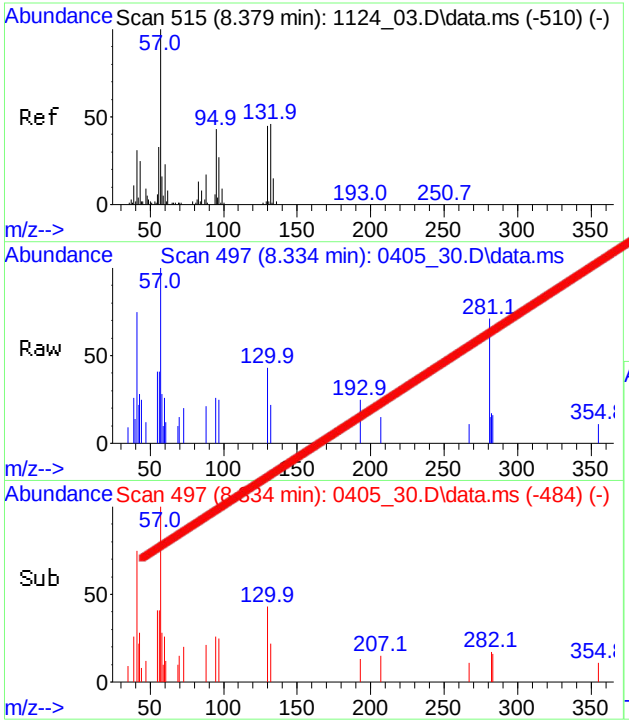



#36
Cyclohexane
Conc: 8$ 0.569 ppbv
RT: 7.855 min Scan# 454
Delta R.T. 0.000 min
Lab File: 0405_30.D
Acq: 6 Apr 2021 3:41 am

Tgt Ion: 41 Resp: 14046

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 38.1 | 36.9 | 55.3 |
| 55 | 76.2 | 86.2 | 129.4# |

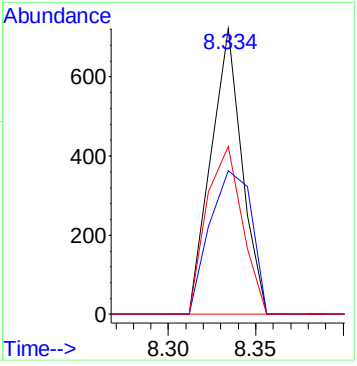


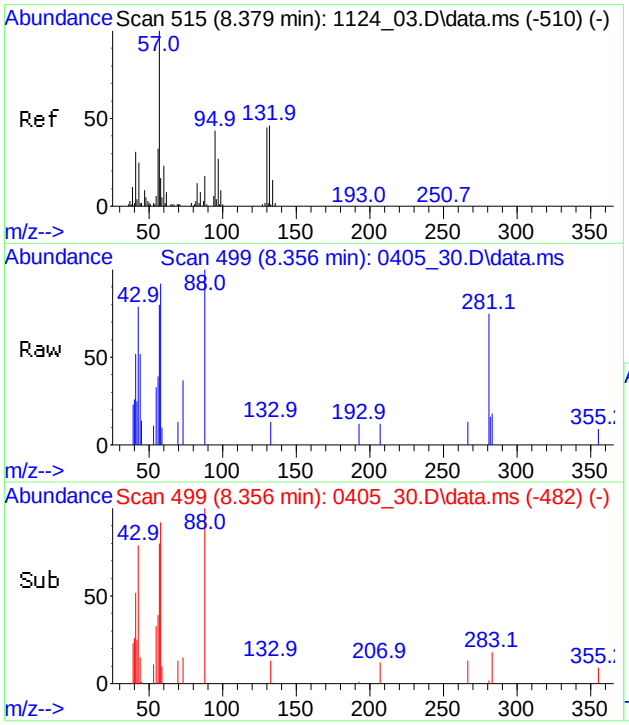




#40
Trichloroethene
Conc: 8$ Below Cal
RT: 8.334 min Scan# 497
Delta R.T. 0.000 min
Lab File: 0405_30.D
Acq: 6 Apr 2021 3:41 am

Tgt Ion:130 Resp: 889

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 132 | 68.4 | 85.0 | 127.6# |
| 97 | 67.6 | 57.5 | 86.3 |

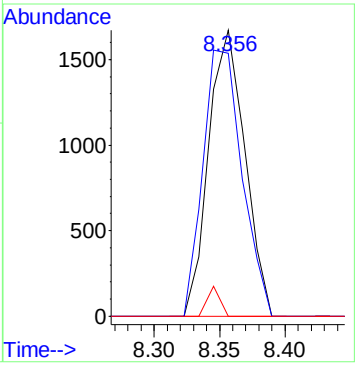


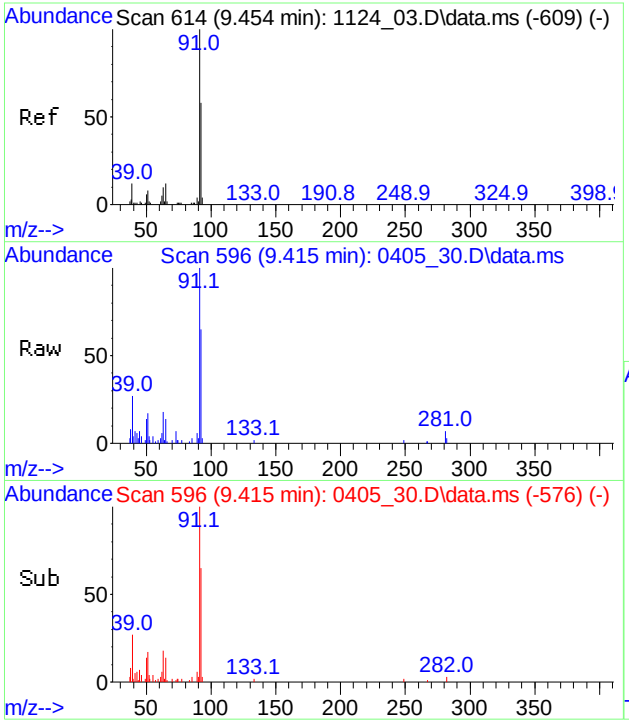



#42
1,4-Dioxane
Conc: 8$ 0.361 ppbv
RT: 8.356 min Scan# 499
Delta R.T. -0.012 min
Lab File: 0405_30.D
Acq: 6 Apr 2021 3:41 am

Tgt Ion: 88 Resp: 3228

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 58 | 100.4 | 145.3 | 217.9# |
| 87 | 3.6 | 8.6 | 12.8# |

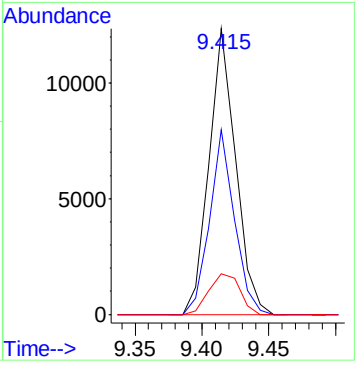


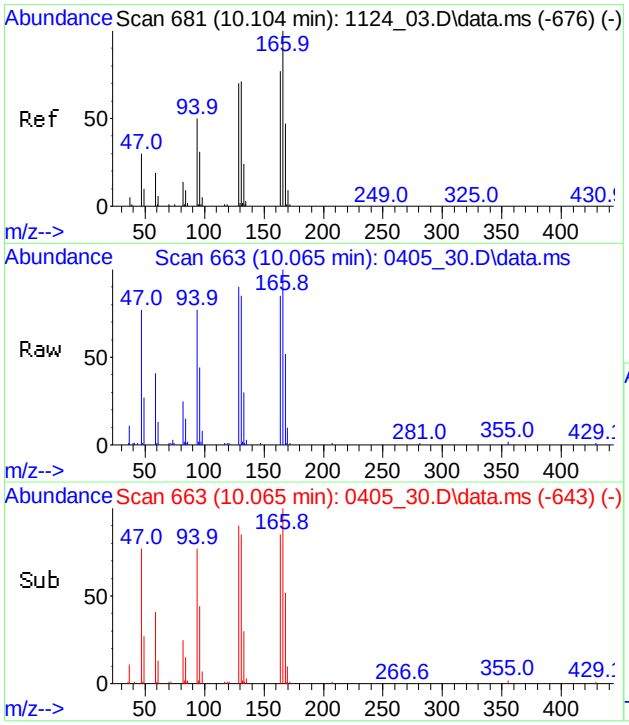




#49
Toluene
Conc: 8$ 0.355 ppbv
RT: 9.415 min Scan# 596
Delta R.T. -0.009 min
Lab File: 0405_30.D
Acq: 6 Apr 2021 3:41 am

Tgt Ion: 91 Resp: 17096

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 60.3 | 46.8 | 70.2 |
| 65 | 16.6 | 11.5 | 17.3 |

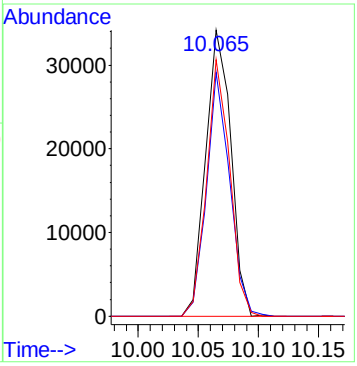


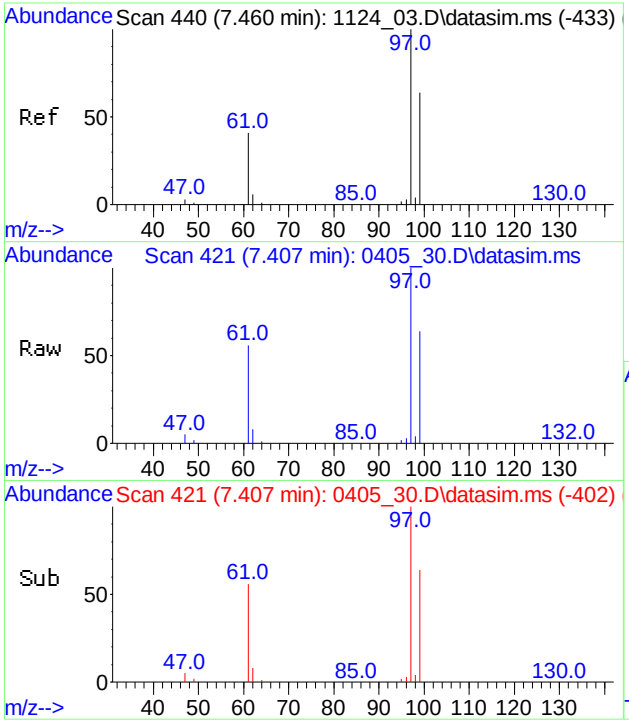



#53
Tetrachloroethene
Conc: 8$ 2.068 ppbv
RT: 10.065 min Scan# 663
Delta R.T. -0.010 min
Lab File: 0405_30.D
Acq: 6 Apr 2021 3:41 am

Tgt Ion:166 Resp: 50055

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 164 | 78.4 | 52.6 | 78.8 |
| 129 | 82.5 | 55.5 | 83.3 |

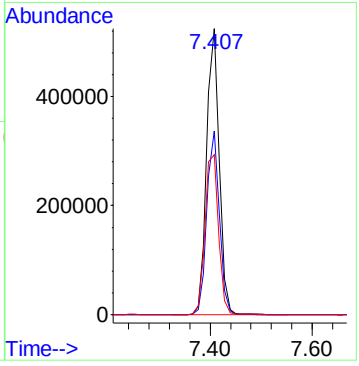


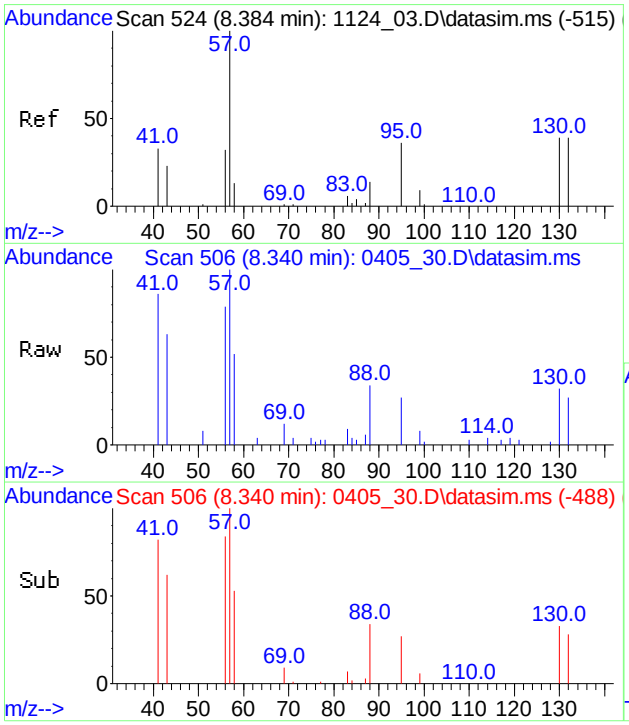




#87
1,1,1-Trichloroethane(sim)
Conc: 8$ 21.369 ppbv
RT: 7.407 min Scan# 421
Delta R.T. 0.000 min
Lab File: 0405_30.D
Acq: 6 Apr 2021 3:41 am

Tgt Ion: 97 Resp: 892092

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 63.7 | 62.4 | 62.4# |
| 61 | 60.0 | 46.0 | 69.0 |

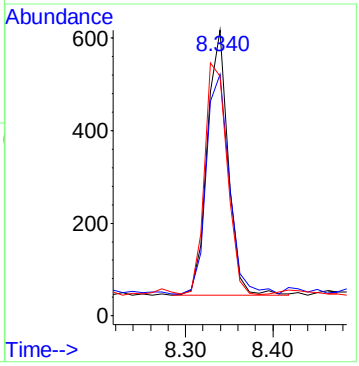


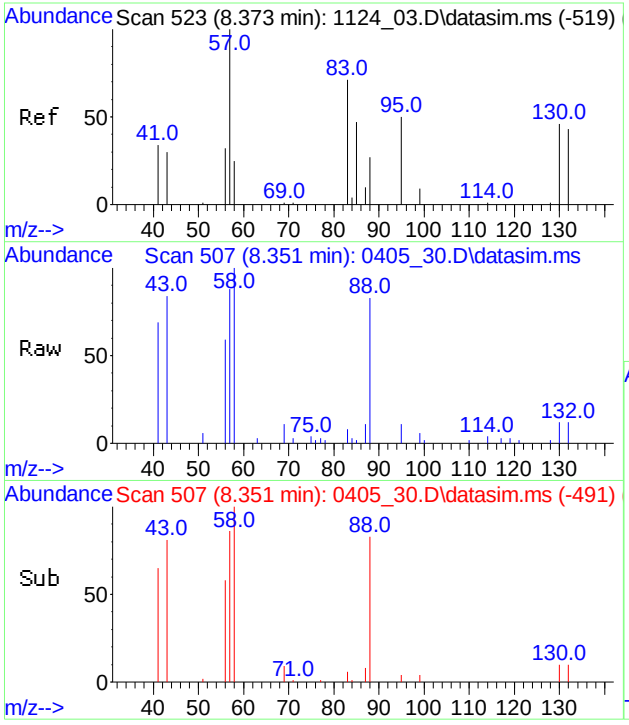



#99
Trichloroethene(sim)
Conc: 8$ 0.041 ppbv
RT: 8.340 min Scan# 506
Delta R.T. -0.000 min
Lab File: 0405_30.D
Acq: 6 Apr 2021 3:41 am

Tgt Ion:130 Resp: 949

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 132 | 91.1 | 78.1 | 117.1 |
| 95 | 94.9 | 75.8 | 113.6 |

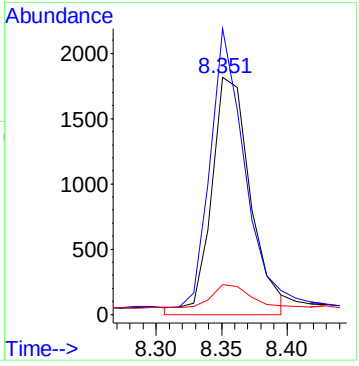


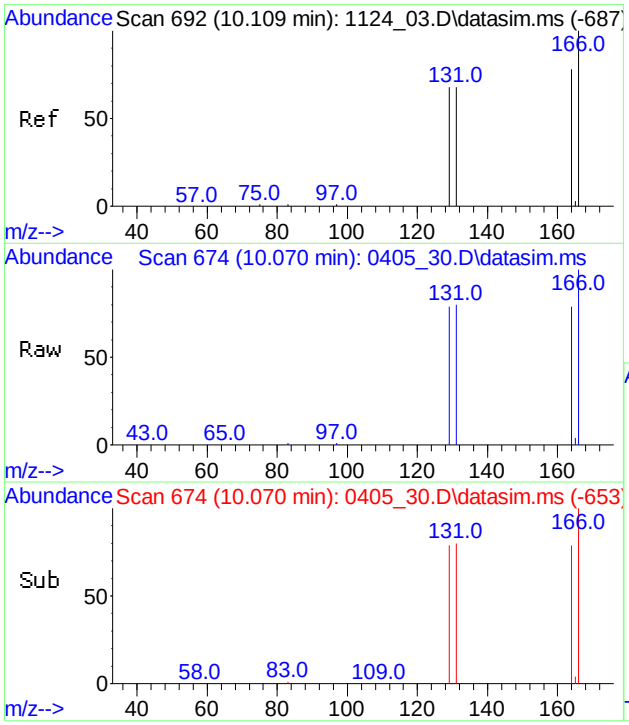




#100
1,4-Dioxane(sim)
Conc: 8$ 0.355 ppbv
RT: 8.356 min Scan# 507
Delta R.T. -0.012 min
Lab File: 0405_30.D
Acq: 6 Apr 2021 3:41 am

Tgt Ion: 88 Resp: 3228

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 58 | 97.1 | 128.4 | 192.6# |
| 87 | 3.6 | 8.6 | 12.8# |

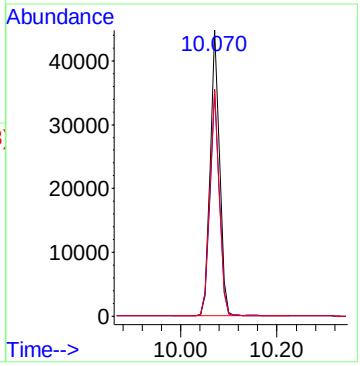





#105
Tetrachloroethene(sim)
Conc: 8$ 2.113 ppbv
RT: 10.070 min Scan# 674
Delta R.T. 0.000 min
Lab File: 0405_30.D
Acq: 6 Apr 2021 3:41 am

Tgt Ion:166 Resp: 60905

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 164 | 78.7 | 58.1 | 98.1 |
| 129 | 79.6 | 56.6 | 96.6 |



# Response Factor Report CHEM20

Method Path : H:\AIR2021\CHEM20\METHODS\
Method File : 20_AIR_0329.M
Title : VOA Standards for 5 point calibration
Last Update : Mon Mar 29 13:11:28 2021
Response Via : Initial Calibration

Calibration Files (Note: Curves (l,lf,q,qf) display calculated conc and corr. coefficient.)
.035=0326_06.D 0.05=0326_07.D 0.10=0326_08.D 0.2 =0326_09.D 0.5 =0326_10.D 1.0 =0326_16.D 2.5 =0326_11.D 5.0 =0326_12.D
10 =0326_17.D 25 =0326_13.D 40 =0326_14.D 0.02=0326_05.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 | | | | 1.776 | 1.738 | 1.747 | 1.764 | 1.883 | 1.776 | 1.675 | 1.729 | | 1.761 | 3.36 |
| 3) | Dichlorodifluo... | | | | 3.064 | 2.906 | 3.284 | 2.987 | 3.330 | 3.207 | 2.922 | 2.381 | | 3.010 | 10.00 |
| 4) | Chloromethane | | | | 1.944 | 1.870 | 1.870 | 1.909 | 1.977 | 1.899 | 1.805 | 1.743 | | 1.877 | 3.99 |
| 5) | 1,2-Dichlorote... | | | | 2.883 | 2.918 | 3.061 | 2.804 | 3.005 | 2.922 | 2.840 | 2.790 | | 2.903 | 3.26 |
| 6) | Vinyl Chloride | | | | 1.330 | 1.301 | 1.416 | 1.309 | 1.356 | 1.323 | 1.302 | 1.354 | | 1.337 | 2.89 |
| 7) | 1,3-Butadiene | | | | 1.327 | 1.347 | 1.424 | 1.306 | 1.397 | 1.400 | 1.379 | 1.379 | | 1.370 | 2.92 |
| 8) | Bromomethane | | | | 1.022 | 0.930 | 0.948 | 0.940 | 0.964 | 0.953 | 0.925 | 0.947 | | 0.954 | 3.16 |
| 9) | Chloroethane | | | | 0.515 | 0.622 | 0.655 | 0.571 | 0.646 | 0.630 | 0.601 | 0.614 | | 0.607 | 7.49 |
| 11) | Ethanol | | | | 1.028 | 0.871 | 0.835 | 0.842 | 0.863 | 0.783 | 0.768 | 0.761 | | 0.844 | 10.15 |
| 12) | Acetone | | | | 3.264 | 3.222 | 2.926 | 3.091 | 3.270 | 3.007 | 2.989 | 2.909 | | 3.085 | 4.85 |
| 13) | Trichlorofluor... | | | | 3.140 | 3.131 | 3.071 | 3.130 | 3.272 | 3.193 | 3.070 | 3.024 | | 3.129 | 2.49 |
| 14) | Isopropylalcohol | | | | 3.802 | 4.096 | 3.608 | 3.778 | 4.092 | 3.760 | 3.640 | 3.462 | | 3.780 | 5.90 |
| 15) | Acrylonitrile | | | | 1.206 | 1.264 | 1.230 | 1.204 | 1.334 | 1.261 | 1.249 | 1.230 | | 1.247 | 3.35 |
| 16) | 1,1-Dichloroet... | | | | 2.151 | 2.255 | 2.153 | 2.187 | 2.352 | 2.312 | 2.287 | 2.267 | | 2.245 | 3.32 |
| 17) | Methylene Chlo... | | | | 2.546 | 2.432 | 2.171 | 2.361 | 2.510 | 2.330 | 2.325 | 2.220 | | 2.362 | 5.53 |
| 20) | Carbon Disulfide | | | | 2.716 | 2.723 | 2.620 | 2.667 | 2.855 | 2.793 | 2.745 | 2.792 | | 2.739 | 2.74 |
| 21) | Trichlorotrifl... | | | | 2.166 | 2.107 | 2.136 | 2.149 | 2.296 | 2.195 | 2.171 | 2.178 | | 2.175 | 2.58 |
| 22) | Trans-1,2-Dich... | | | | 2.191 | 1.927 | 1.966 | 1.933 | 2.119 | 2.064 | 2.061 | 2.045 | | 2.038 | 4.53 |
| 23) | 1,1-Dichloroet... | | | | 2.392 | 2.304 | 2.218 | 2.250 | 2.356 | 2.338 | 2.275 | 2.262 | | 2.299 | 2.57 |
| 24) | Methyl tert-bu... | | | | 3.008 | 2.835 | 3.047 | 2.935 | 3.196 | 3.142 | 3.062 | 3.064 | | 3.036 | 3.73 |
| 26) | Methyl Ethyl K... | | | | 4.011 | 3.717 | 3.698 | 3.925 | 4.272 | 4.691 | 4.846 | 4.660 | | 4.227 | 10.82 |
| 27) | Cis-1,2-Dichlo... | | | | | 1.840 | 1.867 | 1.861 | 1.987 | 1.985 | 1.976 | 1.989 | | 1.929 | 3.59 |
| 28) | Hexane | | | | 2.246 | 2.262 | 2.281 | 2.268 | 2.491 | 2.405 | 2.400 | 2.377 | | 2.341 | 3.80 |
| 29) | Chloroform | | | | 2.419 | 2.398 | 2.328 | 2.364 | 2.546 | 2.491 | 2.428 | 2.455 | | 2.429 | 2.87 |
| 30) | Ethyl acetate | | | | 0.434 | 0.474 | 0.410 | 0.426 | 0.457 | 0.439 | 0.436 | 0.434 | | 0.439 | 4.40 |
| 31) | Tetrahydrofuran | | | | 2.171 | 2.212 | 2.149 | 2.228 | 2.455 | 2.355 | 2.423 | 2.346 | | 2.292 | 5.12 |
| 32) | 1,2-Dichloroet... | | | | 2.075 | 2.080 | 2.132 | 2.082 | 2.289 | 2.221 | 2.183 | 2.159 | | 2.153 | 3.56 |
| 33) | 1,1,1-Trichlor... | | | | 2.709 | 2.669 | 2.685 | 2.636 | 2.889 | 2.847 | 2.769 | 2.774 | | 2.747 | 3.24 |
| 34) | Benzene | | | | 2.769 | 2.787 | 2.824 | 2.858 | 3.069 | 3.007 | 2.992 | 3.010 | | 2.915 | 4.03 |
| 35) | Carbon Tetrach... | | | | 2.821 | 2.799 | 2.799 | 2.892 | 2.999 | 3.005 | 2.964 | 2.985 | | 2.908 | 3.14 |
| 36) | Cyclohexane | | | | | 1.737 | 1.759 | 1.845 | 1.962 | 1.842 | 1.876 | 1.802 | | 1.832 | 4.14 |
| 37) | Int 1,4-Difluorobenzene | ISTD | | | | | | | | | | | | | |
| 38) | 1,2-dichloropr... | | | | 0.389 | 0.371 | 0.374 | 0.357 | 0.399 | 0.375 | 0.379 | 0.383 | | 0.378 | 3.31 |
| 39) | Bromodichlorom... | | | | 0.644 | 0.658 | 0.636 | 0.658 | 0.733 | 0.719 | 0.732 | 0.745 | | 0.691 | 6.58 |
| 40) | Trichloroethene | | | | 0.348 | 0.383 | 0.377 | 0.385 | 0.405 | 0.397 | 0.387 | 0.390 | | 0.384 | 4.39 |
| 42) | 1,4-Dioxane | | | | 0.153 | 0.174 | 0.183 | 0.163 | 0.195 | 0.182 | 0.181 | 0.187 | | 0.177 | 7.56 |
| 44) | Heptane | | | | 0.998 | 0.928 | 0.951 | 0.999 | 1.075 | 1.017 | 1.034 | 0.990 | | 0.999 | 4.60 |
| 45) | cis-1,3-Dichlo... | | | | 0.432 | 0.426 | 0.436 | 0.456 | 0.514 | 0.510 | 0.513 | 0.513 | | 0.475 | 8.63 |
| 46) | 4-Methyl-2-pen... | | | | 1.121 | 1.090 | 1.153 | 1.229 | 1.384 | 1.330 | 1.351 | 1.319 | | 1.247 | 9.15 |
| 47) | trans-1,3-Dich... | | | | 0.536 | 0.502 | 0.530 | 0.529 | 0.562 | 0.580 | 0.565 | 0.580 | | 0.548 | 5.09 |

Method Path : H:\AIR2021\CHEM20\METHODS\
Method File : 20_AIR_0329.M
Title : VOA Standards for 5 point calibration

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 48) | 1,1,2-Trichlor... | | | 0.344 | 0.321 | 0.337 | 0.332 | 0.371 | 0.360 | 0.356 | 0.363 | | 0.348 | 4.96 |
| 49) | Toluene | | | 0.896 | 0.859 | 0.940 | 0.899 | 1.024 | 1.004 | 1.002 | 1.012 | | 0.955 | 6.71 |
| 50) | Dibromochlorom... | | | 0.616 | 0.591 | 0.604 | 0.640 | 0.705 | 0.713 | 0.733 | 0.751 | | 0.669 | 9.45 |
| 51) | 2-Hexanone(MBK) | | | 0.799 | 0.910 | 0.930 | 1.053 | 1.213 | 1.190 | 1.272 | 1.257 | | 1.078 | 16.78 |
| 52) | 1,2-Dibromoeth... | | | 0.497 | 0.487 | 0.495 | 0.507 | 0.572 | 0.566 | 0.582 | 0.594 | | 0.537 | 8.35 |
| 53) | Tetrachloroethene | | | 0.525 | 0.457 | 0.458 | 0.446 | 0.489 | 0.482 | 0.483 | 0.494 | | 0.479 | 5.25 |
| 54) | Int Chlorobenzene-d5 | ----------ISTD---------- | | | | | | | | | | | | |
| 55) | 1,1,1,2-Tetrac... | | | 0.962 | 0.908 | 0.965 | 0.902 | 0.958 | 0.943 | 0.814 | 0.756 | | 0.901 | 8.55 |
| 56) | Chlorobenzene | | | 1.576 | 1.547 | 1.554 | 1.499 | 1.518 | 1.523 | 1.348 | 1.263 | | 1.478 | 7.56 |
| 57) | Ethylbenzene | | 2.407 | 2.479 | 2.291 | 2.559 | 2.372 | 2.559 | 2.550 | 2.246 | 2.107 | | 2.397 | 6.63 |
| 58) | m,p-Xylene | | 1.750 | 1.866 | 1.840 | 1.584 | 1.901 | 2.035 | 2.006 | 1.775 | 1.643 | | 1.822 | 8.32 |
| 59) | Bromoform | | | 0.984 | 0.933 | 0.981 | 1.005 | 1.078 | 1.126 | 1.017 | 0.969 | | 1.012 | 6.19 |
| 60) | Styrene | | | 0.986 | 1.077 | 1.233 | 1.269 | 1.417 | 1.454 | 1.303 | 1.242 | | 1.248 | 12.59 |
| 61) | 1,1,2,2-Tetrac... | | | 1.323 | 1.272 | 1.379 | 1.340 | 1.419 | 1.431 | 1.273 | 1.199 | | 1.329 | 6.00 |
| 62) | o-Xylene | | 1.825 | 1.948 | 1.906 | 2.140 | 1.992 | 2.090 | 2.077 | 1.857 | 1.713 | | 1.950 | 7.17 |
| 63) | Surr% Bromofluorob... | | | 1.183 | 1.183 | 1.200 | 1.232 | 1.204 | 1.225 | 1.137 | 1.065 | | 1.179 | 4.63 |
| 65) | Isopropylbenzene | | | 2.818 | 2.626 | 2.871 | 2.735 | 2.913 | 2.918 | 2.565 | 2.346 | | 2.724 | 7.37 |
| 67) | 4-Ethyltoluene | | | 2.423 | 2.337 | 2.825 | 2.757 | 2.836 | 3.052 | 2.703 | 2.477 | | 2.676 | 9.10 |
| 68) | 1,3,5-Trimethy... | | | 2.080 | 2.235 | 2.286 | 2.239 | 2.550 | 2.343 | 2.107 | 1.981 | | 2.228 | 7.93 |
| 69) | 1,2,4-Trimethy... | | | 2.102 | 2.060 | 2.314 | 2.344 | 2.481 | 2.519 | 2.259 | 2.108 | | 2.273 | 7.67 |
| 71) | Benzyl chloride | | | 4.574 | 4.670 | 5.166 | 5.043 | 5.416 | 5.393 | 4.783 | 4.752 | | 4.975 | 6.58 |
| 72) | 1,3-Dichlorobe... | | | 1.059 | 1.094 | 1.285 | 1.233 | 1.346 | 1.358 | 1.290 | 1.223 | | 1.236 | 8.87 |
| 73) | 1,4-Dichlorobe... | | | 0.863 | 0.893 | 1.075 | 1.045 | 1.131 | 1.159 | 1.148 | 1.126 | | 1.055 | 10.97 |
| 74) | sec-Butylbenzene | | | 3.185 | 3.202 | 3.542 | 3.375 | 3.584 | 3.660 | 3.216 | 2.907 | | 3.334 | 7.61 |
| 75) | 4-Isopropyltol... | | | 3.041 | 2.923 | 3.340 | 3.235 | 3.493 | 3.618 | 3.190 | 2.924 | | 3.221 | 7.92 |
| 76) | 1,2-Dichlorobe... | | | 1.036 | 1.055 | 1.209 | 1.198 | 1.294 | 1.311 | 1.212 | 1.174 | | 1.186 | 8.35 |
| 77) | n-Butylbenzene | | | 1.770 | 1.854 | 2.184 | 2.215 | 2.490 | 2.619 | 2.437 | 2.277 | | 2.231 | 13.33 |
| 78) | 1,2,4-Trichlor... | | | 0.235 | 0.281 | 0.408 | 0.378 | 0.418 | 0.453 | 0.489 | 0.503 | | 0.396 | 24.08 |
| 80) | Hexachlorobuta... | | | 0.908 | 0.850 | 0.916 | 0.876 | 0.831 | 0.807 | 0.684 | 0.642 | | 0.814 | 12.40 |
| 81) | int Bromochloromethane... | ----------ISTD---------- | | | | | | | | | | | | |
| 82) | 1,2-Dichlorote... | 2.954 | 2.978 | 2.642 | 2.533 | 2.538 | 2.658 | 2.427 | 2.623 | | | 3.415 | 2.752 | 11.25 |
| 83) | Vinyl Chloride... | 1.437 | 1.265 | 1.284 | 1.251 | 1.230 | 1.309 | 1.204 | 1.302 | | | 1.536 | 1.313 | 8.11 |
| 84) | Bromomethane(sim) | 1.084 | 0.991 | 1.050 | 0.898 | 0.809 | 0.826 | 0.814 | 0.843 | | | 1.000 | 0.924 | 11.73 |
| 85) | Trichlorofluor... | 3.265 | 3.123 | 3.078 | 3.025 | 2.958 | 2.907 | 2.903 | 3.092 | | | 3.656 | 3.112 | 7.52 |
| 86) | 1,2-Dichloroet... | 2.387 | 2.164 | 1.809 | 1.823 | 1.809 | 1.857 | 1.802 | 2.000 | | | 2.272 | 1.992 | 11.42 |
| 87) | 1,1,1-Trichlor... | 2.776 | 2.681 | 2.592 | 2.608 | 2.484 | 2.533 | 2.503 | 2.707 | | | 2.998 | 2.654 | 6.10 |
| 88) | Benzene(sim) | 2.770 | 2.596 | 2.642 | 2.434 | 2.424 | 2.460 | 2.474 | | | | 2.962 | 2.595 | 7.37 |
| 89) | Carbon Tetrach... | 2.974 | 2.807 | 2.763 | 2.692 | 2.646 | 2.693 | 2.661 | | | | 3.197 | 2.804 | 6.81 |
| 90) | 1,1-Dichloroet... | 2.386 | 2.220 | 1.939 | 1.890 | 1.961 | 1.875 | 1.893 | 2.055 | | | 2.570 | 2.088 | 11.98 |
| 91) | Trichlorotrifl... | 2.361 | 2.211 | 2.222 | 2.160 | 2.068 | 2.053 | 2.026 | 2.166 | | | 2.565 | 2.204 | 7.72 |
| 92) | Trans-1,2-Dich... | 2.105 | 1.725 | 1.757 | 1.925 | 1.676 | 1.712 | 1.673 | 1.851 | | | 2.127 | 1.839 | 9.64 |
| 93) | 1,1-Dichloroet... | 2.418 | 2.352 | 2.269 | 2.228 | 2.175 | 2.149 | 2.139 | 2.308 | | | 2.742 | 2.309 | 8.13 |
| 94) | Cis-1,2-Dichlo... | 2.145 | 1.771 | 1.570 | 1.596 | 1.600 | 1.626 | 1.611 | 1.736 | | | 1.959 | 1.735 | 11.37 |
| 95) | Chloroform(sim) | 2.501 | 2.404 | 2.295 | 2.284 | 2.209 | 2.195 | 2.167 | 2.354 | | | 2.634 | 2.338 | 6.59 |
| 96) | int 1,4-Difluorobenzen... | ----------ISTD---------- | | | | | | | | | | | | |
| 97) | 1,2-dichloropr... | 0.482 | 0.425 | 0.418 | 0.399 | 0.390 | 0.389 | 0.392 | 0.433 | | | 0.557 | 0.432 | 12.85 |
| 98) | Bromodichlorom... | 0.623 | 0.719 | 0.623 | 0.644 | 0.656 | 0.636 | 0.658 | 0.733 | | | 0.924 | 0.691 | 13.89 |
| 99) | Trichloroethen... | 0.468 | 0.466 | 0.446 | 0.431 | 0.422 | 0.426 | 0.424 | 0.464 | | | 0.550 | 0.455 | 8.84 |
| 100) | 1,4-Dioxane(sim) | 0.201 | 0.197 | 0.191 | 0.153 | 0.174 | 0.183 | 0.163 | 0.195 | | | 0.162 | 0.180 | 9.68 |

Method Path : H:\AIR2021\CHEM20\METHODS\
Method File : 20_AIR_0329.M
Title : VOA Standards for 5 point calibration

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 101) | cis-1,3-Dichlo... | 0.585 | 0.561 | 0.497 | 0.487 | 0.482 | 0.511 | 0.509 | | | 0.620 | 0.532 | 9.56 |
| 102) | 1,1,2-Trichlor... | 0.437 | 0.411 | 0.309 | 0.344 | 0.322 | 0.335 | 0.332 | 0.371 | | 0.424 | 0.365 | 13.07 |
| 103) | Dibromochlorom... | 0.728 | 0.705 | 0.682 | 0.667 | 0.656 | 0.677 | 0.708 | | | 0.825 | 0.706 | 7.59 |
| 104) | 1,2-Dibromoeth... | 0.553 | 0.539 | 0.477 | 0.497 | 0.487 | 0.494 | 0.505 | 0.572 | | 0.488 | 0.512 | 6.59 |
| 105) | Tetrachloroeth... | 0.609 | 0.575 | 0.570 | 0.542 | 0.530 | 0.539 | 0.531 | 0.584 | 0.579 | 0.648 | 0.571 | 6.58 |
| 106) | int Chlorobenzene-d5(sim) ----------ISTD---------- | | | | | | | | | | | | | |
| 107) | Bromoform(sim) | 1.162 | 1.124 | 1.069 | 1.069 | 1.044 | 1.126 | 1.142 | | | 1.264 | 1.125 | 6.19 |
| 108) | m,p-Xylene(sim) | 2.241 | 1.921 | 1.750 | 1.864 | 1.840 | 1.991 | 1.906 | 2.039 | | 2.120 | 1.964 | 7.73 |
| 109) | 1,1,2,2-Tetrac... | 1.592 | 1.461 | 1.426 | 1.388 | 1.380 | 1.478 | 1.433 | 1.528 | | 1.751 | 1.493 | 7.88 |
| 112) | Benzyl chlorid... | 1.049 | 0.921 | 0.999 | 0.997 | 1.139 | 1.328 | 1.375 | 1.552 | | 1.108 | 1.163 | 18.06 |
| 113) | 1,3-Dichlorobe... | 1.173 | 1.134 | 1.147 | 1.246 | 1.202 | 1.516 | 1.470 | 1.506 | | 1.340 | 1.304 | 12.09 |
| 114) | 1,4-Dichlorobe... | 0.992 | 0.788 | 0.814 | 0.862 | 0.893 | 1.082 | 1.045 | 1.129 | | 1.181 | 0.976 | 14.62 |
| 115) | sec-Butylbenze... | 3.670 | 3.507 | 3.457 | 3.455 | 3.530 | 3.857 | 3.754 | 4.016 | | 4.249 | 3.722 | 7.42 |
| 116) | 4-Isopropyltol... | 3.502 | 3.111 | 3.006 | 3.038 | 2.923 | 3.338 | 3.234 | 3.497 | | 4.086 | 3.304 | 10.90 |
| 117) | 1,2-Dichlorobe... | 1.295 | 1.263 | 1.172 | 1.208 | 1.232 | 1.393 | 1.380 | 1.482 | | 1.594 | 1.335 | 10.40 |
| 118) | n-Butylbenzene... | 2.101 | 1.747 | 1.538 | 1.768 | 1.854 | 2.183 | 2.214 | 2.490 | | 1.821 | 1.969 | 15.07 |
| 119) | 1,2,4-Trichlor... | 0.400 | 0.364 | 0.319 | 0.339 | 0.348 | 0.484 | 0.465 | | | 0.563 | 0.410 | 20.88 |
| 121) | Hexachlorobuta... | 1.508 | 1.306 | 1.178 | 1.144 | 1.090 | 1.138 | 1.088 | 1.039 | | 1.804 | 1.255 | 19.96 |

(#,$,@)=Out of Range l=linear lf=linear(0,0) q=Quadratic qf=Quadratic(0,0)

# Response Factor Report Chem24

Method Path : H:\AIR2021\CHEM24\METHODS\
Method File : 24AIR_0310.M
Title : VOA Standards for 5 point calibration
Last Update : Fri Mar 12 10:34:44 2021
Response Via : Initial Calibration

Calibration Files (Note: Curves (l,lf,q,qf) display calculated conc and corr. coefficient.)
.035=0310_04.D 0.05=0310_05.D 0.1 =0310_06.D 0.2 =0310_07.D 0.5 =0310_08.D 1.0 =0310_14.D 2.5 =0310_09.D 5.0 =0310_10.D
10 =0310_15.D 25 =0310_11.D 40 =0310_12.D 0.02=0310_03.D

| | Compound | .035 | 0.05 | 0.1 | 0.2 | 0.5 | 1.0 | 2.5 | 5.0 | 10 | 25 | 40 | 0.02 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1) | Int Bromochloromethane | ----------ISTD---------- | | | | | | | | | | | | | |
| 2) | Propylene | | | | 1.098 | 0.991 | 0.958 | 0.917 | 1.111 | 0.996 | 0.973 | 0.918 | | 0.995 | 7.41 |
| 3) | Dichlorodifluo... | | | 2.102 | 2.002 | 1.826 | 1.961 | 1.656 | 2.342 | 1.782 | 1.512 | 1.252 | | 1.826 | 17.85 |
| 4) | Chloromethane | | | 1.400 | 1.242 | 1.239 | 1.143 | 1.454 | 1.652 | 1.497 | 1.465 | 1.337 | | 1.381 | 11.39 |
| 5) | 1,2-Dichlorote... | | | 1.589 | 1.711 | 1.639 | 1.641 | 1.569 | 1.796 | 1.676 | 1.595 | 1.285 | | 1.611 | 8.74 |
| 6) | Vinyl Chloride | | | 0.889 | 0.744 | 0.819 | 0.875 | 0.798 | 0.912 | 0.872 | 0.840 | 0.813 | | 0.840 | 6.24 |
| 7) | 1,3-Butadiene | | | 0.716 | 0.729 | 0.693 | 0.708 | 0.679 | 0.797 | 0.749 | 0.737 | 0.706 | | 0.724 | 4.84 |
| 8) | Bromomethane | | | | 0.871 | 0.824 | 0.817 | 0.774 | 0.861 | 0.811 | 0.797 | 0.775 | | 0.816 | 4.36 |
| 9) | Chloroethane | | | 0.365 | 0.325 | 0.346 | 0.328 | 0.307 | 0.353 | 0.328 | 0.319 | 0.311 | | 0.331 | 5.89 |
| 10) | Ethanol | | | | | 0.522 | 0.450 | 0.417 | 0.514 | 0.431 | 0.395 | 0.381 | | 0.444 | 12.43 |
| 12) | Acetone | | | | 3.062 | 2.831 | 2.463 | 2.483 | 2.768 | 2.482 | 2.398 | 2.078 | | 2.571 | 11.84 |
| 13) | Trichlorofluor... | | | 2.691 | 2.633 | 2.656 | 2.439 | 2.535 | 2.795 | 2.509 | 2.495 | 2.322 | | 2.564 | 5.61 |
| 14) | Isopropylalcohol | | | | 2.621 | 2.240 | 2.191 | 2.201 | 2.673 | 2.361 | 2.114 | 1.836 | | 2.280 | 11.94 |
| 15) | Acrylonitrile | | | | 0.654 | 0.648 | 0.684 | 0.628 | 0.744 | 0.714 | 0.688 | 0.688 | | 0.681 | 5.47 |
| 16) | 1,1-Dichloroet... | | | 1.654 | 1.626 | 1.508 | 1.479 | 1.484 | 1.672 | 1.515 | 1.480 | 1.445 | | 1.540 | 5.58 |
| 17) | Methylene Chlo... | | | | 1.712 | 1.501 | 1.613 | 1.607 | 1.780 | 1.622 | 1.572 | 1.314 | | 1.590 | 8.80 |
| 20) | Carbon Disulfide | | | | 1.978 | 2.005 | 1.928 | 1.863 | 2.148 | 1.993 | 1.941 | 1.931 | | 1.973 | 4.24 |
| 21) | Trichlorotrifl... | | | 1.920 | 1.907 | 1.837 | 1.790 | 1.712 | 1.949 | 1.754 | 1.725 | 1.684 | | 1.809 | 5.45 |
| 22) | Trans-1,2-Dich... | | | 1.315 | 1.294 | 1.281 | 1.323 | 1.293 | 1.485 | 1.397 | 1.361 | 1.347 | | 1.344 | 4.78 |
| 23) | 1,1-Dichloroet... | | | 1.705 | 1.608 | 1.599 | 1.568 | 1.521 | 1.712 | 1.603 | 1.525 | 1.495 | | 1.593 | 4.81 |
| 24) | Methyl tert-bu... | | | 1.845 | 1.667 | 1.828 | 1.832 | 1.734 | 2.007 | 1.915 | 1.845 | 1.820 | | 1.833 | 5.29 |
| 25) | Methyl Ethyl K... | | | 2.750 | 2.661 | 2.558 | 2.504 | 2.474 | 2.892 | 2.727 | 2.675 | 2.613 | | 2.651 | 4.95 |
| 26) | Cis-1,2-Dichlo... | | | 1.444 | 1.352 | 1.358 | 1.412 | 1.355 | 1.599 | 1.535 | 1.473 | 1.437 | | 1.441 | 5.91 |
| 27) | Hexane | | | | 1.431 | 1.756 | 1.844 | 1.738 | 1.977 | 1.911 | 1.833 | 1.789 | | 1.785 | 9.16 |
| 28) | Chloroform | | | 1.887 | 1.894 | 1.915 | 1.912 | 1.836 | 2.103 | 1.916 | 1.860 | 1.789 | | 1.901 | 4.56 |
| 29) | Ethyl acetate | | | 3.775 | 3.235 | 3.385 | 2.980 | 2.892 | 3.405 | 3.149 | 3.076 | 2.991 | | 3.210 | 8.61 |
| 30) | Tetrahydrofuran | | | | 0.906 | 0.919 | 0.860 | 0.840 | 0.946 | 0.864 | 0.854 | 0.823 | | 0.876 | 4.83 |
| 31) | 1,2-Dichloroet... | | | 1.525 | 1.441 | 1.541 | 1.447 | 1.469 | 1.662 | 1.493 | 1.511 | 1.434 | | 1.503 | 4.73 |
| 32) | 1,1,1-Trichlor... | | | 1.989 | 2.087 | 2.169 | 2.054 | 2.034 | 2.286 | 2.099 | 2.050 | 1.980 | | 2.083 | 4.58 |
| 33) | Benzene | | | 2.216 | 2.109 | 1.925 | 2.110 | 1.945 | 2.234 | 2.107 | 2.036 | 2.001 | | 2.076 | 5.25 |
| 34) | Carbon Tetrach... | | | 2.622 | 2.379 | 2.341 | 2.272 | 2.279 | 2.596 | 2.383 | 2.359 | 2.258 | | 2.388 | 5.60 |
| 35) | Cyclohexane | | | | 1.350 | 1.313 | 1.458 | 1.315 | 1.521 | 1.469 | 1.402 | 1.381 | | 1.401 | 5.42 |
| 36) | Int 1,4-Difluorobenzene | ----------ISTD---------- | | | | | | | | | | | | | |
| 37) | 1,2-dichloropr... | | | 0.320 | 0.308 | 0.306 | 0.311 | 0.290 | 0.345 | 0.321 | 0.320 | 0.322 | | 0.316 | 4.69 |
| 38) | Bromodichlorom... | | | 0.626 | 0.637 | 0.658 | 0.633 | 0.638 | 0.742 | 0.690 | 0.693 | 0.691 | | 0.668 | 5.80 |
| 39) | Trichloroethene | | | 0.403 | 0.375 | 0.391 | 0.390 | 0.369 | 0.438 | 0.417 | 0.414 | 0.420 | | 0.402 | 5.59 |
| 41) | 1,4-Dioxane | | | 0.128 | 0.131 | 0.121 | 0.118 | 0.120 | 0.162 | 0.151 | 0.138 | 0.146 | | 0.135 | 11.45 |
| 43) | Heptane | | | 0.691 | 0.626 | 0.669 | 0.701 | 0.675 | 0.799 | 0.755 | 0.757 | 0.752 | | 0.714 | 7.69 |
| 44) | cis-1,3-Dichlo... | | | 0.374 | 0.389 | 0.387 | 0.390 | 0.391 | 0.457 | 0.449 | 0.453 | 0.457 | | 0.416 | 8.69 |
| 45) | 4-Methyl-2-pen... | | | 0.891 | 0.815 | 0.886 | 0.858 | 0.936 | 1.145 | 1.067 | 1.098 | 1.073 | | 0.974 | 12.44 |
| 46) | trans-1,3-Dich... | | | 0.363 | 0.354 | 0.364 | 0.393 | 0.412 | 0.482 | 0.454 | 0.459 | 0.471 | | 0.417 | 12.18 |

Method Path : H:\AIR2021\CHEM24\METHODS\
Method File : 24AIR_0310.M
Title : VOA Standards for 5 point calibration

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 47) | | 1,1,2-Trichlor... | 0.381 | 0.348 | 0.341 | 0.343 | 0.333 | 0.383 | 0.360 | 0.359 | 0.367 | | 0.357 | 4.91 |
| 48) | | Toluene | 0.755 | 0.741 | 0.749 | 0.810 | 0.768 | 0.909 | 0.865 | 0.867 | 0.868 | | 0.815 | 7.82 |
| 49) | | Dibromochlorom... | 0.794 | 0.774 | 0.811 | 0.779 | 0.784 | 0.916 | 0.878 | 0.896 | 0.884 | | 0.835 | 6.84 |
| 50) | | 2-Hexanone(MBK) | | 0.670 | 0.741 | 0.703 | 0.813 | 1.079 | 1.040 | 1.052 | 1.077 | | 0.897 | 20.24 |
| 51) | | 1,2-Dibromoeth... | 0.579 | 0.551 | 0.594 | 0.590 | 0.602 | 0.696 | 0.663 | 0.668 | 0.675 | | 0.624 | 8.23 |
| 52) | | Tetrachloroethene | 0.506 | 0.471 | 0.481 | 0.460 | 0.461 | 0.519 | 0.495 | 0.497 | 0.500 | | 0.488 | 4.27 |
| 53) | Int | Chlorobenzene-d5 | ----------ISTD---------- | | | | | | | | | | | |
| 54) | | 1,1,1,2-Tetrac... | 1.117 | 1.081 | 1.108 | 1.064 | 1.081 | 1.226 | 1.148 | 1.165 | 1.140 | | 1.126 | 4.50 |
| 55) | | Chlorobenzene | 1.817 | 1.654 | 1.641 | 1.660 | 1.637 | 1.862 | 1.757 | 1.719 | 1.708 | | 1.717 | 4.70 |
| 56) | | Ethylbenzene | 2.401 | 2.231 | 2.374 | 2.456 | 2.404 | 2.781 | 2.665 | 2.670 | 2.598 | | 2.509 | 7.08 |
| 57) | | m,p-Xylene | 1.747 | 1.730 | 1.769 | 1.494 | 1.877 | 2.183 | 2.098 | 2.083 | 2.002 | | 1.887 | 11.79 |
| 58) | | Bromoform | 1.579 | 1.431 | 1.513 | 1.265 | 1.330 | 1.685 | 1.628 | 1.680 | 1.668 | | 1.531 | 10.27 |
| 59) | | Styrene | 1.013 | 0.992 | 1.075 | 1.273 | 1.364 | 1.649 | 1.578 | 1.620 | 1.615 | | 1.353 | 20.38 |
| 60) | | 1,1,2,2-Tetrac... | 1.627 | 1.496 | 1.622 | 1.569 | 1.587 | 1.792 | 1.702 | 1.723 | 1.677 | | 1.644 | 5.44 |
| 61) | | o-Xylene | 1.653 | 1.464 | 1.650 | 1.833 | 1.818 | 2.180 | 2.105 | 2.165 | 2.102 | | 1.886 | 13.96 |
| 62) | Surr% | Bromofluorob... | 1.391 | 1.361 | 1.377 | 1.370 | 1.389 | 1.402 | 1.382 | 1.440 | 1.370 | | 1.387 | 1.71 |
| 64) | | Isopropylbenzene | 2.304 | 2.144 | 2.248 | 2.574 | 2.552 | 3.097 | 2.963 | 2.996 | 2.888 | | 2.641 | 13.56 |
| 66) | | 4-Ethyltoluene | 2.222 | 2.293 | 2.505 | 2.667 | 2.699 | 3.318 | 3.118 | 3.211 | 3.104 | | 2.793 | 14.64 |
| 67) | | 1,3,5-Trimethy... | 1.845 | 1.867 | 2.125 | 2.097 | 2.101 | 2.708 | 2.613 | 2.620 | 2.549 | | 2.281 | 14.96 |
| 68) | | 1,2,4-Trimethy... | 1.741 | 1.642 | 2.045 | 1.853 | 1.972 | 2.699 | 2.551 | 2.597 | 2.498 | | 2.178 | 18.73 |
| 70) | | Benzyl chloride | 1.088 | 1.040 | 1.253 | 1.232 | 1.511 | 1.942 | 1.945 | 2.017 | 1.868 | | 1.544 | 26.04 |
| 71) | | 1,3-Dichlorobe... | 1.364 | 1.379 | 1.491 | 1.436 | 1.537 | 1.850 | 1.736 | 1.786 | 1.699 | | 1.586 | 11.59 |
| 72) | | 1,4-Dichlorobe... | 1.243 | 1.206 | 1.379 | 1.345 | 1.425 | 1.766 | 1.652 | 1.705 | 1.635 | | 1.484 | 14.07 |
| 73) | | sec-Butylbenzene | 2.572 | 2.511 | 2.883 | 3.025 | 3.182 | 3.749 | 3.568 | 3.596 | 3.394 | | 3.164 | 14.22 |
| 74) | | 4-Isopropyltol... | 1.852 | 1.923 | 2.255 | 2.207 | 2.484 | 3.133 | 2.982 | 3.079 | 2.858 | | 2.530 | 19.70 |
| 75) | | 1,2-Dichlorobe... | 1.114 | 1.044 | 1.211 | 1.102 | 1.250 | 1.472 | 1.391 | 1.450 | 1.358 | | 1.266 | 12.59 |
| 76) | | n-Butylbenzene | 1.453 | 1.427 | 1.742 | 1.589 | 1.888 | 2.413 | 2.323 | 2.361 | 2.246 | | 1.938 | 20.86 |
| 77) | qfi | 1,2,4-Trichlor... | | 0.099 | 0.380 | 0.523 | 1.475 | 5.571 | 10.64 | 25.61 | 39.62 | | Coef R2 | 1.00 |
| 79) | | Hexachlorobuta... | 0.535 | 0.485 | 0.563 | 0.519 | 0.560 | 0.622 | 0.594 | 0.630 | 0.668 | | 0.575 | 10.19 |
| 80) | int | Bromochloromethane... | ----------ISTD---------- | | | | | | | | | | | |
| 81) | | 1,2-Dichlorote... | 1.734 | 1.887 | 1.522 | 1.649 | 1.574 | 1.593 | 1.514 | 1.719 | | 2.224 | 1.713 | 13.14 |
| 82) | | Vinyl Chloride... | 0.992 | 0.998 | 0.901 | 0.865 | 0.873 | 0.891 | 0.840 | 0.958 | | | 0.915 | 6.57 |
| 83) | | Bromomethane(sim) | 1.010 | 1.103 | 0.923 | 0.840 | 0.792 | 0.793 | 0.747 | 0.825 | | 1.152 | 0.909 | 16.13 |
| 84) | | Trichlorofluor... | 3.072 | 3.016 | 2.718 | 2.688 | 2.635 | 2.500 | 2.550 | 2.816 | | 3.599 | 2.844 | 12.06 |
| 85) | | 1,1,1-Trichlor... | 2.266 | 2.319 | 1.905 | 1.965 | 2.070 | 1.994 | 1.963 | 2.190 | | 2.301 | 2.108 | 7.70 |
| 86) | | Benzene(sim) | 2.571 | 2.469 | 2.181 | 2.120 | 2.070 | 2.190 | 2.085 | | | 2.933 | 2.327 | 13.15 |
| 87) | | Carbon Tetrach... | 2.879 | 2.414 | 2.458 | 2.293 | 2.249 | 2.204 | 2.200 | 2.486 | | 2.708 | 2.432 | 9.62 |
| 88) | | 1,1-Dichloroet... | 1.884 | 1.789 | 1.652 | 1.619 | 1.592 | 1.556 | 1.538 | 1.715 | | 2.188 | 1.726 | 11.97 |
| 89) | | Trichlorotrifl... | 2.218 | 1.845 | 1.839 | 1.776 | 1.765 | 1.734 | 1.652 | 1.864 | | 2.284 | 1.886 | 11.52 |
| 90) | | Trans-1,2-Dich... | 1.631 | 1.561 | 1.424 | 1.393 | 1.372 | 1.407 | 1.348 | 1.537 | | 1.725 | 1.489 | 8.80 |
| 91) | | 1,1-Dichloroet... | 2.024 | 1.869 | 1.633 | 1.550 | 1.535 | 1.521 | 1.468 | 1.640 | | 2.178 | 1.713 | 14.65 |
| 92) | | Cis-1,2-Dichlo... | 1.620 | 1.597 | 1.301 | 1.400 | 1.410 | 1.463 | 1.426 | 1.641 | | 1.742 | 1.511 | 9.53 |
| 93) | | Chloroform(sim) | 2.240 | 1.862 | 1.807 | 1.826 | 1.843 | 1.856 | 1.772 | 2.013 | | 2.570 | 1.977 | 13.41 |
| 94) | | 1,2-Dichloroet... | 1.827 | 1.708 | 1.586 | 1.569 | 1.553 | 1.518 | 1.525 | 1.726 | | 2.092 | 1.678 | 11.19 |
| 95) | int | 1,4-Difluorobenzen... | ----------ISTD---------- | | | | | | | | | | | |
| 96) | | 1,2-dichloropr... | 0.413 | 0.381 | 0.349 | 0.330 | 0.334 | 0.339 | 0.321 | 0.371 | | 0.443 | 0.365 | 11.37 |
| 97) | | Bromodichlorom... | 0.757 | 0.793 | 0.626 | 0.637 | 0.658 | 0.633 | 0.638 | 0.741 | | 0.802 | 0.698 | 10.54 |
| 98) | | Trichloroethen... | 0.492 | 0.476 | 0.418 | 0.414 | 0.416 | 0.410 | 0.401 | 0.467 | | 0.547 | 0.449 | 11.04 |
| 99) | | 1,4-Dioxane(sim) | | 0.155 | 0.137 | 0.131 | 0.121 | 0.118 | 0.120 | 0.162 | | | 0.135 | 13.16 |

# Response Factor Report Chem24

Method Path : H:\AIR2021\CHEM24\METHODS\
Method File : 24AIR_0310.M
Title : VOA Standards for 5 point calibration

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 100) | | cis-1,3-Dichlo... | 0.445 | 0.442 | 0.418 | 0.404 | 0.415 | 0.439 | 0.431 | | | 0.531 | 0.441 | 8.93 |
| 101) | | 1,1,2-Trichlor... | 0.378 | 0.367 | 0.381 | 0.351 | 0.341 | 0.343 | 0.333 | 0.383 | | 0.478 | 0.373 | 11.70 |
| 102) | | Dibromochlorom... | 0.908 | 0.899 | 0.830 | 0.815 | 0.835 | 0.774 | 0.800 | 0.940 | | 1.118 | 0.880 | 11.89 |
| 103) | | 1,2-Dibromoeth... | 0.659 | 0.629 | 0.579 | 0.551 | 0.594 | 0.590 | 0.602 | 0.696 | | 0.813 | 0.635 | 12.57 |
| 104) | | Tetrachloroeth... | 0.555 | 0.528 | 0.490 | 0.487 | 0.491 | 0.486 | 0.477 | 0.544 | 0.514 | 0.657 | 0.523 | 10.36 |
| 105) | int | Chlorobenzene-d5(sim) | ----------ISTD---------- | | | | | | | | | | | |
| 106) | | Bromoform(sim) | 1.642 | 1.632 | 1.500 | 1.465 | 1.499 | 1.276 | 1.337 | 1.665 | | 2.124 | 1.571 | 15.70 |
| 107) | | 1,1,1,2-Tetrac... | 1.263 | 1.146 | 1.135 | 1.081 | 1.102 | 1.061 | 1.081 | 1.226 | | 1.432 | 1.170 | 10.23 |
| 108) | | Ethylbenzene(sim) | 2.776 | 2.760 | 2.562 | 2.464 | 2.526 | 2.613 | 2.605 | | | 3.572 | 2.735 | 12.98 |
| 109) | | m,p-Xylene(sim) | 1.808 | 1.917 | 1.747 | 1.730 | 1.769 | 1.868 | 1.877 | 2.182 | | | 1.862 | 7.80 |
| 110) | | o-Xylene(sim) | 1.945 | 1.895 | 1.767 | 1.703 | 1.781 | 1.968 | 1.964 | | | 2.559 | 1.948 | 13.68 |
| 111) | | 1,1,2,2-Tetrac... | 1.884 | 1.707 | 1.627 | 1.488 | 1.622 | 1.566 | 1.587 | 1.792 | | 2.297 | 1.730 | 14.13 |
| 114) | | Benzyl chlorid... | 1.315 | 1.136 | 1.095 | 1.150 | 1.424 | 1.308 | 1.633 | 2.084 | | 1.473 | 1.402 | 22.12 |
| 115) | | 1,3-Dichlorobe... | 1.755 | 1.377 | 1.364 | 1.379 | 1.494 | 1.436 | 1.537 | 1.850 | | 2.381 | 1.619 | 20.60 |
| 116) | | 1,4-Dichlorobe... | 1.637 | 1.490 | 1.386 | 1.371 | 1.537 | 1.496 | 1.598 | 1.977 | | 2.084 | 1.620 | 15.42 |
| 117) | | sec-Butylbenze... | 2.873 | 2.823 | 2.572 | 2.511 | 2.883 | 3.023 | 3.179 | 3.748 | | | 2.951 | 13.16 |
| 118) | | 4-Isopropyltol... | 2.451 | 2.192 | 2.048 | 2.075 | 2.446 | 2.432 | 2.742 | 3.458 | | | 2.481 | 18.43 |
| 119) | | 1,2-Dichlorobe... | 1.187 | 1.022 | 1.114 | 1.037 | 1.211 | 1.102 | 1.250 | 1.472 | | 1.875 | 1.252 | 21.56 |
| 120) | | n-Butylbenzene... | 1.701 | 1.436 | 1.417 | 1.447 | 1.855 | 1.701 | 2.006 | 2.631 | | | 1.774 | 22.89 |
| 121) | qfi | 1,2,4-Trichlor... | 0.045 | 0.051 | 0.106 | 0.159 | 0.621 | 0.860 | 2.537 | | | 0.027 | Coef R2 | 0.98@ |
| 122) | | Hexachlorobuta... | 0.841 | 0.693 | 0.583 | 0.548 | 0.613 | 0.538 | 0.593 | 0.663 | | 1.071 | 0.683 | 25.27 |

(#,$,@)=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 | Client: GC-ENV

Lab Code: Phoenix | SDG No.: GCH92051

Instrument ID: CHEM20 | Calibration Date From: 03/26/21 22:16

Heated Purge (Y/N): Y | Calibration Date Thru: 03/27/21 03:13

GC Column: | Method File: 20_AIR_0329.M

Laboratory File Ids

RRF1 0326_05.D RRF2 0326_06.D RRF3 0326_07.D RRF4 0326_08.D RRF5 0326_09.D RRF6 0326_10.D
RRF7 0326_16.D RRF8 0326_11.D RRF9 0326_12.D RRF10 0326_17.D RRF11 0326_13.D RRF12 0326_14.D

| 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 | | | | | 1.776 | 1.738 | 1.747 | 1.764 | 1.883 | 1.776 | 1.675 | 1.729 | 1.761 | 3.36 |
| Dichlorodifluoromethane | | | | | 3.064 | 2.906 | 3.284 | 2.987 | 3.330 | 3.207 | 2.922 | 2.381 | 3.010 | 10.00 |
| Chloromethane | | | | | 1.944 | 1.870 | 1.870 | 1.909 | 1.977 | 1.899 | 1.805 | 1.743 | 1.877 | 3.99 |
| 1,2-Dichlorotetrafluoroethane | | | | | 2.883 | 2.918 | 3.061 | 2.804 | 3.005 | 2.922 | 2.840 | 2.790 | 2.903 | 3.26 |
| Vinyl Chloride | | | | | 1.330 | 1.301 | 1.416 | 1.309 | 1.356 | 1.323 | 1.302 | 1.354 | 1.337 | 2.89 |
| 1,3-Butadiene | | | | | 1.327 | 1.347 | 1.424 | 1.306 | 1.397 | 1.400 | 1.379 | 1.379 | 1.370 | 2.92 |
| Bromomethane | | | | | 1.022 | 0.930 | 0.948 | 0.940 | 0.964 | 0.953 | 0.925 | 0.947 | 0.954 | 3.16 |
| Chloroethane | | | | | 0.515 | 0.622 | 0.655 | 0.571 | 0.646 | 0.630 | 0.601 | 0.614 | 0.607 | 7.49 |
| Ethanol | | | | | 1.028 | 0.871 | 0.835 | 0.842 | 0.863 | 0.783 | 0.768 | 0.761 | 0.844 | 10.15 |
| Acetone | | | | | 3.264 | 3.222 | 2.926 | 3.091 | 3.270 | 3.007 | 2.989 | 2.909 | 3.085 | 4.85 |
| Trichlorofluoromethane | | | | | 3.140 | 3.131 | 3.071 | 3.130 | 3.272 | 3.193 | 3.070 | 3.024 | 3.129 | 2.49 |
| Isopropylalcohol | | | | | 3.802 | 4.096 | 3.608 | 3.778 | 4.092 | 3.760 | 3.640 | 3.462 | 3.780 | 5.90 |
| Acrylonitrile | | | | | 1.206 | 1.264 | 1.230 | 1.204 | 1.334 | 1.261 | 1.249 | 1.230 | 1.247 | 3.35 |
| 1,1-Dichloroethene | | | | | 2.151 | 2.255 | 2.153 | 2.187 | 2.352 | 2.312 | 2.287 | 2.267 | 2.245 | 3.32 |
| Methylene Chloride | | | | | 2.546 | 2.432 | 2.171 | 2.361 | 2.510 | 2.330 | 2.325 | 2.220 | 2.362 | 5.53 |
| Carbon Disulfide | | | | | 2.716 | 2.723 | 2.620 | 2.667 | 2.855 | 2.793 | 2.745 | 2.792 | 2.739 | 2.74 |
| Trichlorotrifluoroethane | | | | | 2.166 | 2.107 | 2.136 | 2.149 | 2.296 | 2.195 | 2.171 | 2.178 | 2.175 | 2.58 |
| Trans-1,2-Dichloroethene | | | | | 2.191 | 1.927 | 1.966 | 1.933 | 2.119 | 2.064 | 2.061 | 2.045 | 2.038 | 4.53 |
| 1,1-Dichloroethane | | | | | 2.392 | 2.304 | 2.218 | 2.250 | 2.356 | 2.338 | 2.275 | 2.262 | 2.299 | 2.57 |
| Methyl tert-butyl ether(MTBE) | | | | | 3.008 | 2.835 | 3.047 | 2.935 | 3.196 | 3.142 | 3.062 | 3.064 | 3.036 | 3.73 |
| Methyl Ethyl Ketone | | | | | 4.011 | 3.717 | 3.698 | 3.925 | 4.272 | 4.691 | 4.846 | 4.660 | 4.227 | 10.82 |
| Cis-1,2-Dichloroethene | | | | | | 1.840 | 1.867 | 1.861 | 1.987 | 1.985 | 1.976 | 1.989 | 1.929 | 3.59 |
| Hexane | | | | | 2.246 | 2.262 | 2.281 | 2.268 | 2.491 | 2.405 | 2.400 | 2.377 | 2.341 | 3.80 |
| Chloroform | | | | | 2.419 | 2.398 | 2.328 | 2.364 | 2.546 | 2.491 | 2.428 | 2.455 | 2.429 | 2.87 |
| Ethyl acetate | | | | | 0.434 | 0.474 | 0.410 | 0.426 | 0.457 | 0.439 | 0.436 | 0.434 | 0.439 | 4.40 |

(#) The maximum %RSD was not met for this compound Note: m,p-xylene TV is 2 times the TV Listed

(l) linear (q) quadratic (i) inverse conc weight (i2) inverse conc weight squared (f) force through zero

Compounds not using average response (l, li, lfi, li2, lfi2, q, qi, qfi, qi2, qfi2) display concentrations and not response factors

6B
AIR INITIAL CALIBRATION DATA

Lab Name: Phoenix Environmental Labs | Client: GC-ENV

Lab Code: Phoenix | SDG No.: GCH92051

Instrument ID: CHEM20 | Calibration Date From: 03/26/21 22:16

Heated Purge (Y/N): Y | Calibration Date Thru: 03/27/21 03:13

GC Column: | Method File: 20_AIR_0329.M

Laboratory File Ids

RRF1 0326_05.D RRF2 0326_06.D RRF3 0326_07.D RRF4 0326_08.D RRF5 0326_09.D RRF6 0326_10.D
RRF7 0326_16.D RRF8 0326_11.D RRF9 0326_12.D RRF10 0326_17.D RRF11 0326_13.D RRF12 0326_14.D

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Tetrahydrofuran | | | | | 2.171 | 2.212 | 2.149 | 2.228 | 2.455 | 2.355 | 2.423 | 2.346 | 2.292 | 5.12 |
| 1,2-Dichloroethane | | | | | 2.075 | 2.080 | 2.132 | 2.082 | 2.289 | 2.221 | 2.183 | 2.159 | 2.153 | 3.56 |
| 1,1,1-Trichloroethane | | | | | 2.709 | 2.669 | 2.685 | 2.636 | 2.889 | 2.847 | 2.769 | 2.774 | 2.747 | 3.24 |
| Benzene | | | | | 2.769 | 2.787 | 2.824 | 2.858 | 3.069 | 3.007 | 2.992 | 3.010 | 2.915 | 4.03 |
| Carbon Tetrachloride | | | | | 2.821 | 2.799 | 2.799 | 2.892 | 2.999 | 3.005 | 2.964 | 2.985 | 2.908 | 3.14 |
| Cyclohexane | | | | | | 1.737 | 1.759 | 1.845 | 1.962 | 1.842 | 1.876 | 1.802 | 1.832 | 4.14 |
| 1,2-dichloropropane | | | | | 0.389 | 0.371 | 0.374 | 0.357 | 0.399 | 0.375 | 0.379 | 0.383 | 0.378 | 3.31 |
| Bromodichloromethane | | | | | 0.644 | 0.658 | 0.636 | 0.658 | 0.733 | 0.719 | 0.732 | 0.745 | 0.691 | 6.58 |
| Trichloroethene | | | | | 0.348 | 0.383 | 0.377 | 0.385 | 0.405 | 0.397 | 0.387 | 0.390 | 0.384 | 4.39 |
| 1,4-Dioxane | | | | | 0.153 | 0.174 | 0.183 | 0.163 | 0.195 | 0.182 | 0.181 | 0.187 | 0.177 | 7.56 |
| Heptane | | | | | 0.998 | 0.928 | 0.951 | 0.999 | 1.075 | 1.017 | 1.034 | 0.990 | 0.999 | 4.60 |
| cis-1,3-Dichloropropene | | | | | 0.432 | 0.426 | 0.436 | 0.456 | 0.514 | 0.510 | 0.513 | 0.513 | 0.475 | 8.63 |
| 4-Methyl-2-pentanone(MIBK) | | | | | 1.121 | 1.090 | 1.153 | 1.229 | 1.384 | 1.330 | 1.351 | 1.319 | 1.247 | 9.15 |
| trans-1,3-Dichloropropene | | | | | 0.536 | 0.502 | 0.530 | 0.529 | 0.562 | 0.580 | 0.565 | 0.580 | 0.548 | 5.09 |
| 1,1,2-Trichloroethane | | | | | 0.344 | 0.321 | 0.337 | 0.332 | 0.371 | 0.360 | 0.356 | 0.363 | 0.348 | 4.96 |
| Toluene | | | | | 0.896 | 0.859 | 0.940 | 0.899 | 1.024 | 1.004 | 1.002 | 1.012 | 0.955 | 6.71 |
| Dibromochloromethane | | | | | 0.616 | 0.591 | 0.604 | 0.640 | 0.705 | 0.713 | 0.733 | 0.751 | 0.669 | 9.45 |
| 2-Hexanone(MBK) | | | | | 0.799 | 0.910 | 0.930 | 1.053 | 1.213 | 1.190 | 1.272 | 1.257 | 1.078 | 16.78 |
| 1,2-Dibromoethane(EDB) | | | | | 0.497 | 0.487 | 0.495 | 0.507 | 0.572 | 0.566 | 0.582 | 0.594 | 0.537 | 8.35 |
| Tetrachloroethene | | | | | 0.525 | 0.457 | 0.458 | 0.446 | 0.489 | 0.482 | 0.483 | 0.494 | 0.479 | 5.25 |
| 1,1,1,2-Tetrachloroethane | | | | | 0.962 | 0.908 | 0.965 | 0.902 | 0.958 | 0.943 | 0.814 | 0.756 | 0.901 | 8.55 |
| Chlorobenzene | | | | | 1.576 | 1.547 | 1.554 | 1.499 | 1.518 | 1.523 | 1.348 | 1.263 | 1.478 | 7.56 |
| Ethylbenzene | | | | 2.407 | 2.479 | 2.291 | 2.559 | 2.372 | 2.559 | 2.550 | 2.246 | 2.107 | 2.397 | 6.63 |
| m,p-Xylene | | | | 1.750 | 1.866 | 1.840 | 1.584 | 1.901 | 2.035 | 2.006 | 1.775 | 1.643 | 1.822 | 8.32 |
| Bromoform | | | | | 0.984 | 0.933 | 0.981 | 1.005 | 1.078 | 1.126 | 1.017 | 0.969 | 1.012 | 6.19 |

(#) The maximum %RSD was not met for this compound Note: m,p-xylene TV is 2 times the TV Listed

(l) linear (q) quadratic (i) inverse conc weight (i2) inverse conc weight squared (f) force through zero

Compounds not using average response (l, li, lfi, li2, lfi2, q, qi, qfi, qi2, qfi2) display concentrations and not response factors

Lab Name: Phoenix Environmental Labs | Client: GC-ENV

Lab Code: Phoenix | SDG No.: GCH92051

Instrument ID: CHEM20 | Calibration Date From: 03/26/21 22:16

Heated Purge (Y/N): Y | Calibration Date Thru: 03/27/21 03:13

GC Column: | Method File: 20_AIR_0329.M

Laboratory File Ids

RRF1 0326_05.D RRF2 0326_06.D RRF3 0326_07.D RRF4 0326_08.D RRF5 0326_09.D RRF6 0326_10.D
RRF7 0326_16.D RRF8 0326_11.D RRF9 0326_12.D RRF10 0326_17.D RRF11 0326_13.D RRF12 0326_14.D

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Styrene | | | | | 0.986 | 1.077 | 1.233 | 1.269 | 1.417 | 1.454 | 1.303 | 1.242 | 1.248 | 12.59 |
| 1,1,2,2-Tetrachloroethane | | | | | 1.323 | 1.272 | 1.379 | 1.340 | 1.419 | 1.431 | 1.273 | 1.199 | 1.329 | 6.00 |
| o-Xylene | | | | 1.825 | 1.948 | 1.906 | 2.140 | 1.992 | 2.090 | 2.077 | 1.857 | 1.713 | 1.950 | 7.17 |
| Isopropylbenzene | | | | | 2.818 | 2.626 | 2.871 | 2.735 | 2.913 | 2.918 | 2.565 | 2.346 | 2.724 | 7.37 |
| 4-Ethyltoluene | | | | | 2.423 | 2.337 | 2.825 | 2.757 | 2.836 | 3.052 | 2.703 | 2.477 | 2.676 | 9.10 |
| 1,3,5-Trimethylbenzene | | | | | 2.080 | 2.235 | 2.286 | 2.239 | 2.550 | 2.343 | 2.107 | 1.981 | 2.228 | 7.93 |
| 1,2,4-Trimethylbenzene | | | | | 2.102 | 2.060 | 2.314 | 2.344 | 2.481 | 2.519 | 2.259 | 2.108 | 2.273 | 7.67 |
| Benzyl chloride | | | | | 4.574 | 4.670 | 5.166 | 5.043 | 5.416 | 5.393 | 4.783 | 4.752 | 4.975 | 6.58 |
| 1,3-Dichlorobenzene | | | | | 1.059 | 1.094 | 1.285 | 1.233 | 1.346 | 1.358 | 1.290 | 1.223 | 1.236 | 8.87 |
| 1,4-Dichlorobenzene | | | | | 0.863 | 0.893 | 1.075 | 1.045 | 1.131 | 1.159 | 1.148 | 1.126 | 1.055 | 10.97 |
| sec-Butylbenzene | | | | | 3.185 | 3.202 | 3.542 | 3.375 | 3.584 | 3.660 | 3.216 | 2.907 | 3.334 | 7.61 |
| 4-Isopropyltoluene | | | | | 3.041 | 2.923 | 3.340 | 3.235 | 3.493 | 3.618 | 3.190 | 2.924 | 3.221 | 7.92 |
| 1,2-Dichlorobenzene | | | | | 1.036 | 1.055 | 1.209 | 1.198 | 1.294 | 1.311 | 1.212 | 1.174 | 1.186 | 8.35 |
| n-Butylbenzene | | | | | 1.770 | 1.854 | 2.184 | 2.215 | 2.490 | 2.619 | 2.437 | 2.277 | 2.231 | 13.33 |
| 1,2,4-Trichlorobenzene | | | | | 0.235 | 0.281 | 0.408 | 0.378 | 0.418 | 0.453 | 0.489 | 0.503 | 0.396 | 24.08 |
| Hexachlorobutadiene | | | | | 0.908 | 0.850 | 0.916 | 0.876 | 0.831 | 0.807 | 0.684 | 0.642 | 0.814 | 12.40 |
| 1,2-Dichlorotetrafluoroethane(sim) | 3.415 | 2.954 | 2.978 | 2.642 | 2.533 | 2.538 | 2.658 | 2.427 | 2.623 | | | | 2.752 | 11.25 |
| Vinyl Chloride(sim) | 1.536 | 1.437 | 1.265 | 1.284 | 1.251 | 1.230 | 1.309 | 1.204 | 1.302 | | | | 1.313 | 8.11 |
| Bromomethane(sim) | 1.000 | 1.084 | 0.991 | 1.050 | 0.898 | 0.809 | 0.826 | 0.814 | 0.843 | | | | 0.924 | 11.73 |
| Trichlorofluoromethane(sim) | 3.656 | 3.265 | 3.123 | 3.078 | 3.025 | 2.958 | 2.907 | 2.903 | 3.092 | | | | 3.112 | 7.52 |
| 1,2-Dichloroethane(sim) | 2.272 | 2.387 | 2.164 | 1.809 | 1.823 | 1.809 | 1.857 | 1.802 | 2.000 | | | | 1.992 | 11.42 |
| 1,1,1-Trichloroethane(sim) | 2.998 | 2.776 | 2.681 | 2.592 | 2.608 | 2.484 | 2.533 | 2.503 | 2.707 | | | | 2.654 | 6.10 |
| Benzene(sim) | 2.962 | 2.770 | 2.596 | 2.642 | 2.434 | 2.424 | 2.460 | 2.474 | | | | | 2.595 | 7.37 |
| Carbon Tetrachloride(sim) | 3.197 | 2.974 | 2.807 | 2.763 | 2.692 | 2.646 | 2.693 | 2.661 | | | | | 2.804 | 6.81 |
| 1,1-Dichloroethene(sim) | 2.570 | 2.386 | 2.220 | 1.939 | 1.890 | 1.961 | 1.875 | 1.893 | 2.055 | | | | 2.088 | 11.98 |

(#) The maximum %RSD was not met for this compound Note: m,p-xylene TV is 2 times the TV Listed

(l) linear (q) quadratic (i) inverse conc weight (i2) inverse conc weight squared (f) force through zero

Compounds not using average response (l, li, lfi, li2, lfi2, q, qi, qfi, qi2, qfi2) display concentrations and not response factors

6B
AIR INITIAL CALIBRATION DATA

Lab Name: Phoenix Environmental Labs | Client: GC-ENV

Lab Code: Phoenix | SDG No.: GCH92051

Instrument ID: CHEM20 | Calibration Date From: 03/26/21 22:16

Heated Purge (Y/N): Y | Calibration Date Thru: 03/27/21 03:13

GC Column: | Method File: 20_AIR_0329.M

Laboratory File Ids

RRF1 0326_05.D RRF2 0326_06.D RRF3 0326_07.D RRF4 0326_08.D RRF5 0326_09.D RRF6 0326_10.D
RRF7 0326_16.D RRF8 0326_11.D RRF9 0326_12.D RRF10 0326_17.D RRF11 0326_13.D RRF12 0326_14.D

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Trichlorotrifluoroethane(sim) | 2.565 | 2.361 | 2.211 | 2.222 | 2.160 | 2.068 | 2.053 | 2.026 | 2.166 | | | | 2.204 | 7.72 |
| Trans-1,2-Dichloroethene(sim) | 2.127 | 2.105 | 1.725 | 1.757 | 1.925 | 1.676 | 1.712 | 1.673 | 1.851 | | | | 1.839 | 9.64 |
| 1,1-Dichloroethane(sim) | 2.742 | 2.418 | 2.352 | 2.269 | 2.228 | 2.175 | 2.149 | 2.139 | 2.308 | | | | 2.309 | 8.13 |
| Cis-1,2-Dichloroethene(sim) | 1.959 | 2.145 | 1.771 | 1.570 | 1.596 | 1.600 | 1.626 | 1.611 | 1.736 | | | | 1.735 | 11.37 |
| Chloroform(sim) | 2.634 | 2.501 | 2.404 | 2.295 | 2.284 | 2.209 | 2.195 | 2.167 | 2.354 | | | | 2.338 | 6.59 |
| 1,2-dichloropropane(sim) | 0.557 | 0.482 | 0.425 | 0.418 | 0.399 | 0.390 | 0.389 | 0.392 | 0.433 | | | | 0.432 | 12.85 |
| Bromodichloromethane(sim) | 0.924 | 0.623 | 0.719 | 0.623 | 0.644 | 0.656 | 0.636 | 0.658 | 0.733 | | | | 0.691 | 13.89 |
| Trichloroethene(sim) | 0.550 | 0.468 | 0.466 | 0.446 | 0.431 | 0.422 | 0.426 | 0.424 | 0.464 | | | | 0.455 | 8.84 |
| 1,4-Dioxane(sim) | 0.162 | 0.201 | 0.197 | 0.191 | 0.153 | 0.174 | 0.183 | 0.163 | 0.195 | | | | 0.180 | 9.68 |
| cis-1,3-Dichloropropene(sim) | 0.620 | 0.585 | 0.561 | 0.497 | 0.487 | 0.482 | 0.511 | 0.509 | | | | | 0.532 | 9.56 |
| 1,1,2-Trichloroethane(sim) | 0.424 | 0.437 | 0.411 | 0.309 | 0.344 | 0.322 | 0.335 | 0.332 | 0.371 | | | | 0.365 | 13.07 |
| Dibromochloromethane(sim) | 0.825 | 0.728 | 0.705 | 0.682 | 0.667 | 0.656 | 0.677 | 0.708 | | | | | 0.706 | 7.59 |
| 1,2-Dibromoethane(EDB)(sim) | 0.488 | 0.553 | 0.539 | 0.477 | 0.497 | 0.487 | 0.494 | 0.505 | 0.572 | | | | 0.512 | 6.59 |
| Tetrachloroethene(sim) | 0.648 | 0.609 | 0.575 | 0.570 | 0.542 | 0.530 | 0.539 | 0.531 | 0.584 | 0.579 | | | 0.571 | 6.58 |
| Bromoform(sim) | 1.264 | 1.162 | 1.124 | 1.069 | 1.069 | 1.044 | 1.126 | 1.142 | | | | | 1.125 | 6.19 |
| m,p-Xylene(sim) | 2.120 | 2.241 | 1.921 | 1.750 | 1.864 | 1.840 | 1.991 | 1.906 | 2.039 | | | | 1.964 | 7.73 |
| 1,1,2,2-Tetrachloroethane(sim) | 1.751 | 1.592 | 1.461 | 1.426 | 1.388 | 1.380 | 1.478 | 1.433 | 1.528 | | | | 1.493 | 7.88 |
| Benzyl chloride(sim) | 1.108 | 1.049 | 0.921 | 0.999 | 0.997 | 1.139 | 1.328 | 1.375 | 1.552 | | | | 1.163 | 18.06 |
| 1,3-Dichlorobenzene(sim) | 1.340 | 1.173 | 1.134 | 1.147 | 1.246 | 1.202 | 1.516 | 1.470 | 1.506 | | | | 1.304 | 12.09 |
| 1,4-Dichlorobenzene(sim) | 1.181 | 0.992 | 0.788 | 0.814 | 0.862 | 0.893 | 1.082 | 1.045 | 1.129 | | | | 0.976 | 14.62 |
| sec-Butylbenzene(sim) | 4.249 | 3.670 | 3.507 | 3.457 | 3.455 | 3.530 | 3.857 | 3.754 | 4.016 | | | | 3.722 | 7.42 |
| 4-Isopropyltoluene(sim) | 4.086 | 3.502 | 3.111 | 3.006 | 3.038 | 2.923 | 3.338 | 3.234 | 3.497 | | | | 3.304 | 10.90 |
| 1,2-Dichlorobenzene(sim) | 1.594 | 1.295 | 1.263 | 1.172 | 1.208 | 1.232 | 1.393 | 1.380 | 1.482 | | | | 1.335 | 10.40 |
| n-Butylbenzene(sim) | 1.821 | 2.101 | 1.747 | 1.538 | 1.768 | 1.854 | 2.183 | 2.214 | 2.490 | | | | 1.969 | 15.07 |
| 1,2,4-Trichlorobenzene(sim) | 0.563 | 0.400 | 0.364 | 0.319 | 0.339 | 0.348 | 0.484 | 0.465 | | | | | 0.410 | 20.88 |

(#) The maximum %RSD was not met for this compound Note: m,p-xylene TV is 2 times the TV Listed

(l) linear (q) quadratic (i) inverse conc weight (i2) inverse conc weight squared (f) force through zero

Compounds not using average response (l, li, lfi, li2, lfi2, q, qi, qfi, qi2, qfi2) display concentrations and not response factors

6B
AIR INITIAL CALIBRATION DATA

Lab Name: Phoenix Environmental Labs | Client: GC-ENV

Lab Code: Phoenix | SDG No.: GCH92051

Instrument ID: CHEM20 | Calibration Date From: 03/26/21 22:16

Heated Purge (Y/N): Y | Calibration Date Thru: 03/27/21 03:13

GC Column: | Method File: 20_AIR_0329.M

Laboratory File Ids

RRF1 0326_05.D RRF2 0326_06.D RRF3 0326_07.D RRF4 0326_08.D RRF5 0326_09.D RRF6 0326_10.D
RRF7 0326_16.D RRF8 0326_11.D RRF9 0326_12.D RRF10 0326_17.D RRF11 0326_13.D RRF12 0326_14.D

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Hexachlorobutadiene(sim) | 1.804 | 1.508 | 1.306 | 1.178 | 1.144 | 1.090 | 1.138 | 1.088 | 1.039 | | | | 1.255 | 19.96 |
| % Bromofluorobenzene | | | | | 1.183 | 1.183 | 1.200 | 1.232 | 1.204 | 1.225 | 1.137 | 1.065 | 1.179 | 4.63 |

(#) The maximum %RSD was not met for this compound Note: m,p-xylene TV is 2 times the TV Listed

(l) linear (q) quadratic (i) inverse conc weight (i2) inverse conc weight squared (f) force through zero

Compounds not using average response (l, li, lfi, li2, lfi2, q, qi, qfi, qi2, qfi2) display concentrations and not response factors

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM20\03MAR\26\
Data File : 0326_05.D
Acq On : 26 Mar 2021 7:51 pm
Operator :
Client ID : ICAL 0.02
Lab ID : 0.02
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 29 13:03:20 2021
Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0329.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Mar 29 09:24:11 2021
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Bromochloromethane | 6.704 | 130 | 253163 | 10.000 | ng | | 0.00 |
| 37) 1,4-Difluorobenzene | 7.900 | 114 | 969958 | 10.000 | ng | | 0.00 |
| 54) Chlorobenzene-d5 | 10.430 | 82 | 477679 | 10.000 | ng | | 0.00 |
| 81) Bromochloromethane(sim) | 6.710 | 130 | 291987 | 10.000 | ng | # | 0.00 |
| 96) 1,4-Difluorobenzene(sim) | 7.900 | 114 | 969958 | 10.000 | ng | | 0.00 |
| 106) Chlorobenzene-d5(sim) | 10.430 | 82 | 477679 | 10.000 | ng | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 63) % Bromofluorobenzene | 11.281 | 95 | 544621 | 9.680 | ppbv | | 0.00 |
| Spiked Amount 10.000 | Range 70 - 130 | | Recovery = | 96.80% | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) Propylene | 3.446 | 41 | 2325 | 0.052 | ppbv | # | 75 |
| 3) Dichlorodifluoromethane | 3.500 | 85 | 2357 | 0.031 | ppbv | # | 90 |
| 4) Chloromethane | 3.650 | 50 | 1614 | 0.034 | ppbv | | 74 |
| 5) 1,2-Dichlorotetrafluor... | 3.726 | 85 | 1994 | 0.027 | ppbv | # | 70 |
| 6) Vinyl Chloride | 3.823 | 62 | 750 | 0.022 | ppbv | | 81 |
| 7) 1,3-Butadiene | 3.931 | 54 | 1385 | 0.040 | ppbv | # | 74 |
| 8) Bromomethane | 4.157 | 94 | 537 | 0.022 | ppbv | # | 74 |
| 9) Chloroethane | 4.276 | 64 | 133 | 0.009 | ppbv | # | 43 |
| 11) Ethanol | 4.340 | 45 | 855 | 0.040 | ppbv | # | 75 |
| 12) Acetone | 4.642 | 43 | 308 | 0.004 | ppbv | | 100 |
| 13) Trichlorofluoromethane | 4.815 | 101 | 2161 | 0.027 | ppbv | # | 92 |
| 14) Isopropylalcohol | 4.976 | 45 | 3421 | 0.036 | ppbv | | 100 |
| 15) Acrylonitrile | 5.062 | 53 | 811 | 0.026 | ppbv | # | 29 |
| 16) 1,1-Dichloroethene | 5.261 | 61 | 1501 | 0.026 | ppbv | # | 86 |
| 17) Methylene Chloride | 5.338 | 49 | 1796 | 0.030 | ppbv | # | 92 |
| 20) Carbon Disulfide | 5.537 | 76 | 1915 | 0.028 | ppbv | # | 91 |
| 21) Trichlorotrifluoroethane | 5.511 | 101 | 1498 | 0.027 | ppbv | | 91 |
| 22) Trans-1,2-Dichloroethene | 5.954 | 61 | 1242 | 0.024 | ppbv | # | 94 |
| 23) 1,1-Dichloroethane | 6.080 | 63 | 1519 | 0.026 | ppbv | | 77 |
| 24) Methyl tert-butyl ethe... | 6.096 | 73 | 290 | 0.004 | ppbv | | 92 |
| 26) Methyl Ethyl Ketone | 6.333 | 43 | 215 | 0.002 | ppbv | | 100 |
| 27) Cis-1,2-Dichloroethene | 6.610 | 61 | 1144 | 0.023 | ppbv | # | 97 |
| 28) Hexane | 6.725 | 57 | 1480 | 0.025 | ppbv | | 97 |
| 29) Chloroform | 6.787 | 83 | 1653 | 0.027 | ppbv | | 88 |
| 30) Ethyl acetate | 6.777 | 61 | 123 | 0.011 | ppbv | | 100 |
| 31) Tetrahydrofuran | 7.121 | 42 | 1584 | 0.027 | ppbv | # | 75 |
| 32) 1,2-Dichloroethane | 7.256 | 62 | 1327 | 0.024 | ppbv | # | 85 |
| 33) 1,1,1-Trichloroethane | 7.412 | 97 | 1616 | 0.023 | ppbv | | 91 |
| 34) Benzene | 7.699 | 78 | 1730 | 0.023 | ppbv | # | 77 |
| 35) Carbon Tetrachloride | 7.788 | 117 | 1762 | 0.024 | ppbv | | 94 |
| 36) Cyclohexane | 7.866 | 41 | 2056 | 0.044 | ppbv | # | 17 |
| 38) 1,2-dichloropropane | 8.201 | 63 | 1239 | 0.034 | ppbv | # | 72 |
| 39) Bromodichloromethane | 8.323 | 83 | 1793 | 0.027 | ppbv | # | 68 |
| 40) Trichloroethene | 8.334 | 130 | 1288 | 0.035 | ppbv | # | 69 |
| 42) 1,4-Dioxane | 8.379 | 88 | 315 | 0.018 | ppbv | # | 20 |
| 44) Heptane | 8.490 | 43 | 2477 | 0.026 | ppbv | # | 92 |
| 45) cis-1,3-Dichloropropene | 8.847 | 75 | 1522 | 0.033 | ppbv | # | 62 |
| 46) 4-Methyl-2-pentanone(M... | 8.891 | 43 | 2367 | 0.020 | ppbv | # | 82 |
| 47) trans-1,3-Dichloropropene | 9.162 | 75 | 1361 | 0.026 | ppbv | # | 66 |
| 48) 1,1,2-Trichloroethane | 9.259 | 97 | 822 | 0.024 | ppbv | # | 82 |
| 49) Toluene | 9.424 | 91 | 2281 | 0.025 | ppbv | # | 94 |
| 50) Dibromochloromethane | 9.677 | 129 | 1241 | 0.019 | ppbv | # | 78 |
| 51) 2-Hexanone(MBK) | 9.580 | 43 | 1161 | 0.011 | ppbv | # | 91 |
| 52) 1,2-Dibromoethane(EDB) | 9.822 | 107 | 947 | 0.018 | ppbv | | 98 |

Data Path : H:\AIR2021\CHEM20\03MAR\26\
Data File : 0326_05.D
Acq On : 26 Mar 2021 7:51 pm
Operator :
Client ID : ICAL 0.02
Lab ID : 0.02
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 29 13:03:20 2021
Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0329.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Mar 29 09:24:11 2021
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 53) Tetrachloroethene | 10.075 | 166 | 1802 | 0.039 | ppbv# | 65 |
| 55) 1,1,1,2-Tetrachloroethane | 10.440 | 131 | 1055 | 0.025 | ppbv | 92 |
| 56) Chlorobenzene | 10.461 | 112 | 1770 | 0.025 | ppbv | 93 |
| 57) Ethylbenzene | 10.666 | 91 | 2916 | 0.025 | ppbv | 89 |
| 58) m,p-Xylene | 10.758 | 91 | 4050 | 0.047 | ppbv# | 89 |
| 59) Bromoform | 10.819 | 173 | 1093 | 0.023 | ppbv | 97 |
| 60) Styrene | 10.963 | 104 | 1191 | 0.020 | ppbv# | 89 |
| 61) 1,1,2,2-Tetrachloroethane | 11.024 | 83 | 1461 | 0.023 | ppbv# | 84 |
| 62) o-Xylene | 11.024 | 91 | 2643 | 0.028 | ppbv# | 80 |
| 65) Isopropylbenzene | 11.352 | 105 | 2488 | 0.019 | ppbv | 91 |
| 67) 4-Ethyltoluene | 11.732 | 105 | 2514 | 0.020 | ppbv# | 98 |
| 68) 1,3,5-Trimethylbenzene | 11.773 | 105 | 2473 | 0.023 | ppbv# | 87 |
| 69) 1,2,4-Trimethylbenzene | 12.019 | 105 | 2888 | 0.027 | ppbv# | 85 |
| 71) Benzyl chloride | 11.650 | 91 | 5206 | 0.022 | ppbv# | 92 |
| 72) 1,3-Dichlorobenzene | 12.132 | 146 | 1275 | 0.022 | ppbv# | 73 |
| 73) 1,4-Dichlorobenzene | 12.183 | 146 | 1128 | 0.022 | ppbv# | 81 |
| 74) sec-Butylbenzene | 12.183 | 105 | 3418 | 0.021 | ppbv# | 94 |
| 75) 4-Isopropyltoluene | 12.286 | 119 | 3904 | 0.025 | ppbv# | 80 |
| 76) 1,2-Dichlorobenzene | 12.389 | 146 | 1192 | 0.021 | ppbv# | 82 |
| 77) n-Butylbenzene | 12.553 | 91 | 1740 | 0.016 | ppbv# | 84 |
| 78) 1,2,4-Trichlorobenzene | 13.528 | 180 | 370 | 0.020 | ppbv# | 20 |
| 80) Hexachlorobutadiene | 13.856 | 225 | 1323 | 0.034 | ppbv | 89 |
| 82] 1,2-Dichlorotetrafluor... | 3.726 | 85 | 1994 | 0.025 | ppbv# | 70 |
| 83] Vinyl Chloride(sim) | 3.829 | 62 | 897 | 0.023 | ppbv | 94 |
| 84] Bromomethane(sim) | 4.152 | 94 | 584m | 0.022 | ppbv | 81 |
| 85] Trichlorofluoromethane... | 4.831 | 101 | 2135 | 0.023 | ppbv# | 100 |
| 86] 1,2-Dichloroethane(sim) | 7.256 | 62 | 1327 | 0.023 | ppbv# | 85 |
| 87] 1,1,1-Trichloroethane(... | 7.408 | 97 | 1751 | 0.023 | ppbv# | 92 |
| 88] Benzene(sim) | 7.699 | 78 | 1730 | 0.023 | ppbv# | 77 |
| 89] Carbon Tetrachloride(sim) | 7.794 | 117 | 1867 | 0.023 | ppbv | 93 |
| 90] 1,1-Dichloroethene(sim) | 5.261 | 61 | 1501 | 0.025 | ppbv# | 86 |
| 91] Trichlorotrifluoroetha... | 5.508 | 101 | 1498 | 0.023 | ppbv# | 97 |
| 92] Trans-1,2-Dichloroethe... | 5.954 | 61 | 1242 | 0.023 | ppbv# | 94 |
| 93] 1,1-Dichloroethane(sim) | 6.078 | 63 | 1601 | 0.024 | ppbv | 99 |
| 94] Cis-1,2-Dichloroethene... | 6.610 | 61 | 1144 | 0.023 | ppbv# | 97 |
| 95] Chloroform(sim) | 6.793 | 83 | 1538 | 0.023 | ppbv | 94 |
| 97] 1,2-dichloropropane(sim) | 8.206 | 63 | 1081 | 0.026 | ppbv | 90 |
| 98] Bromodichloromethane(sim) | 8.323 | 83 | 1793 | 0.027 | ppbv# | 58 |
| 99] Trichloroethene(sim) | 8.340 | 130 | 1067 | 0.024 | ppbv | 99 |
| 100] 1,4-Dioxane(sim) | 8.379 | 88 | 315 | 0.018 | ppbv# | 27 |
| 101] cis-1,3-Dichloropropen... | 8.852 | 75 | 1202 | 0.023 | ppbv | 98 |
| 102] 1,1,2-Trichloroethane(... | 9.259 | 97 | 822 | 0.023 | ppbv | 75 |
| 103] Dibromochloromethane(sim) | 9.682 | 129 | 1601 | 0.023 | ppbv | 97 |
| 104] 1,2-Dibromoethane(EDB)... | 9.822 | 107 | 947 | 0.019 | ppbv | 98 |
| 105] Tetrachloroethene(sim) | 10.080 | 166 | 1257 | 0.023 | ppbv | 99 |
| 107] Bromoform(sim) | 10.825 | 173 | 1208 | 0.022 | ppbv | 97 |
| 108] m,p-Xylene(sim) | 10.758 | 91 | 4050 | 0.043 | ppbv# | 90 |
| 109] 1,1,2,2-Tetrachloroeth... | 11.030 | 83 | 1673 | 0.023 | ppbv | 99 |
| 112] Benzyl chloride(sim) | 12.122 | 91 | 1059 | 0.019 | ppbv | 66 |
| 113] 1,3-Dichlorobenzene(sim) | 12.138 | 146 | 1280 | 0.021 | ppbv | 98 |
| 114] 1,4-Dichlorobenzene(sim) | 12.183 | 146 | 1128 | 0.024 | ppbv | 81 |
| 115] sec-Butylbenzene(sim) | 12.189 | 105 | 4059 | 0.023 | ppbv | 99 |
| 116] 4-Isopropyltoluene(sim) | 12.286 | 119 | 3904 | 0.025 | ppbv# | 80 |
| 117] 1,2-Dichlorobenzene(sim) | 12.394 | 146 | 1523 | 0.024 | ppbv | 96 |
| 118] n-Butylbenzene(sim) | 12.553 | 91 | 1740 | 0.019 | ppbv | 84 |
| 119] 1,2,4-Trichlorobenzene... | 13.533 | 180 | 538 | 0.027 | ppbv | 88 |
| 121] Hexachlorobutadiene(sim) | 13.862 | 225 | 1723 | 0.029 | ppbv | 95 |

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM20\03MAR\26\
Data File : 0326_05.D
Acq On : 26 Mar 2021 7:51 pm
Operator :
Client ID : ICAL 0.02
Lab ID : 0.02
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 29 13:03:20 2021
Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0329.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Mar 29 09:24:11 2021
Response via : Initial Calibration

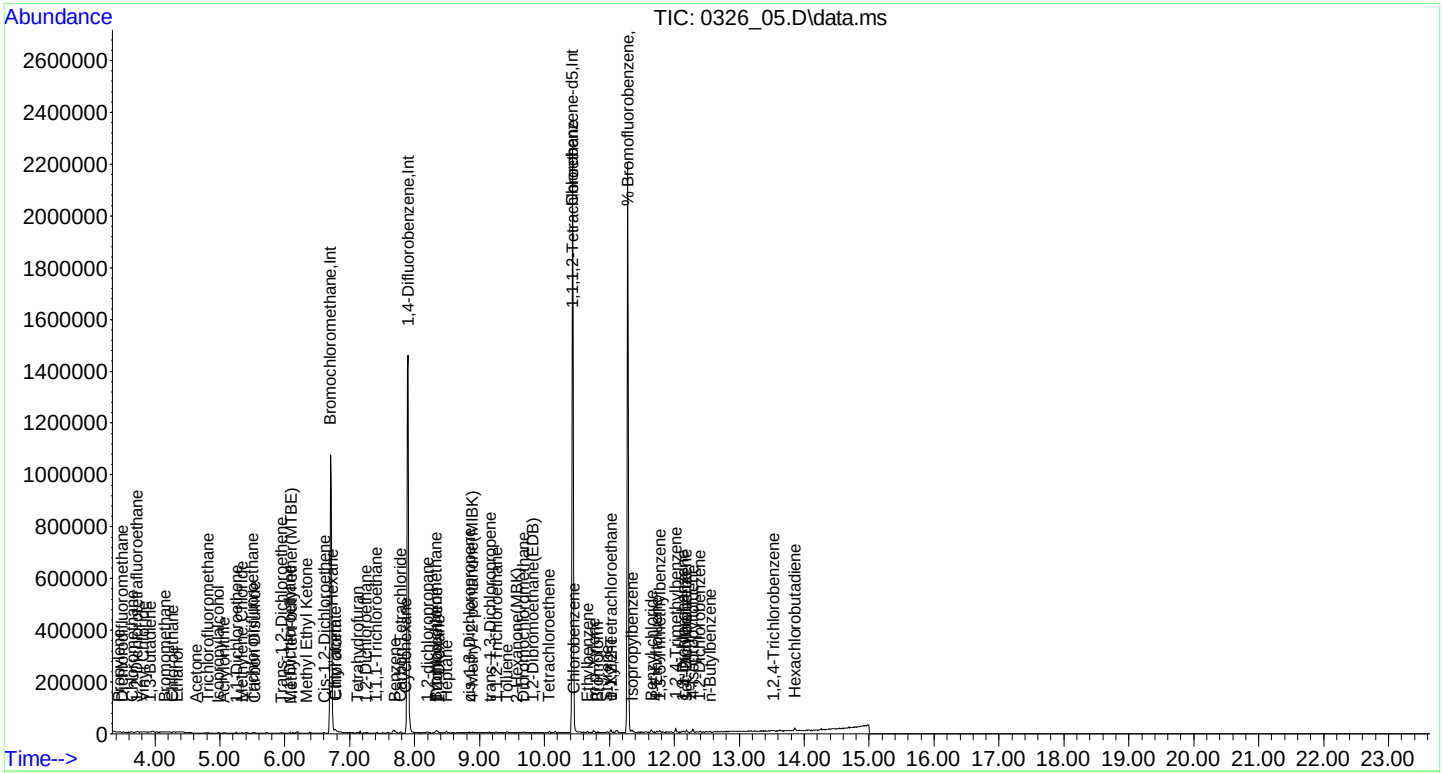
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

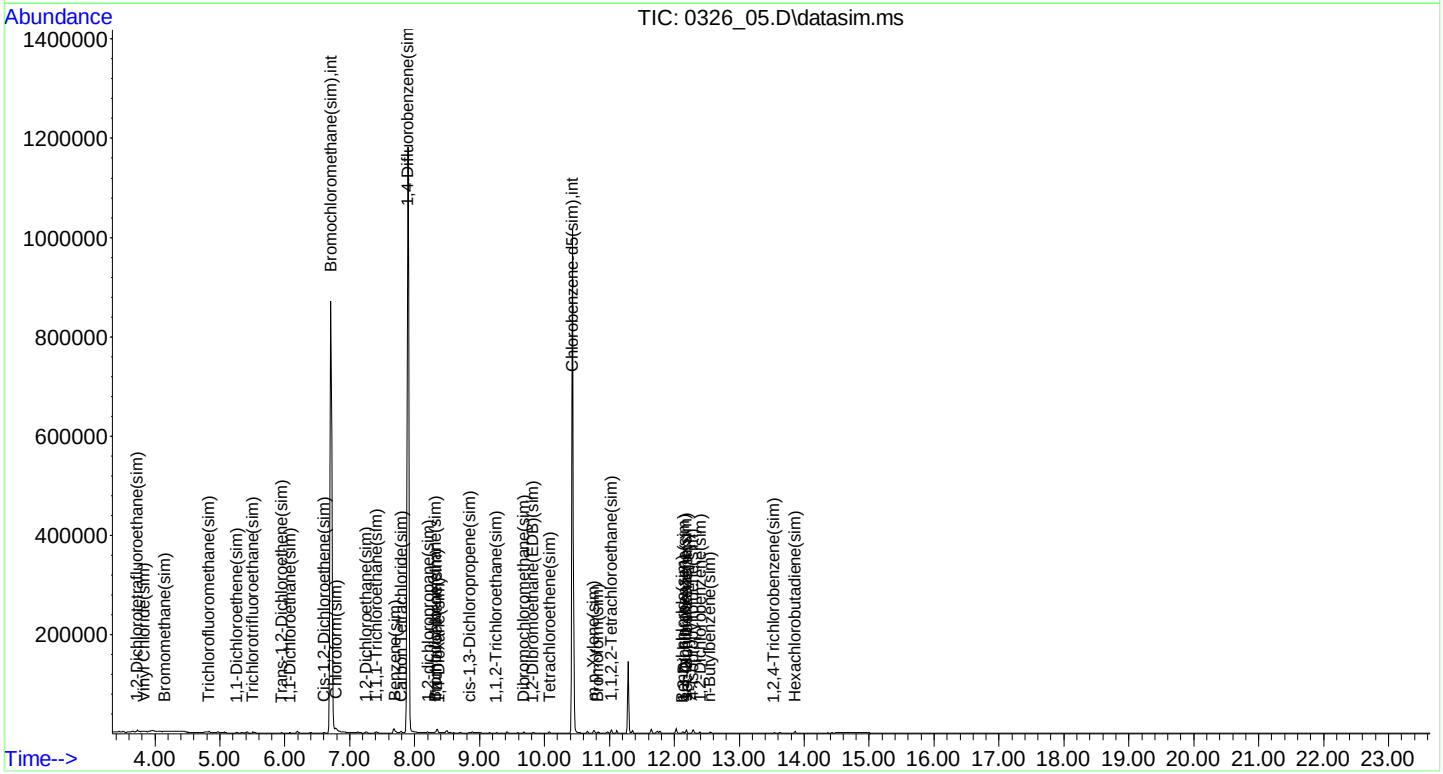
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM20\03MAR\26\
Data File : 0326_05.D
Acq On : 26 Mar 2021 7:51 pm
Operator :
Client ID : ICAL 0.02
Lab ID : 0.02
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 29 13:03:20 2021
Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0329.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Mar 29 09:24:11 2021
Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM20\03MAR\26\
Data File : 0326_06.D
Acq On : 26 Mar 2021 8:27 pm
Operator :
Client ID : ICAL 0.035
Lab ID : 0.035
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 29 13:07:16 2021
Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0329.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Mar 29 13:05:55 2021
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Bromochloromethane | 6.694 | 130 | 257903 | 10.000 | ng | -0.01 |
| 37) 1,4-Difluorobenzene | 7.889 | 114 | 955460 | 10.000 | ng | -0.01 |
| 54) Chlorobenzene-d5 | 10.430 | 82 | 470733 | 10.000 | ng | 0.00 |
| 81) Bromochloromethane(sim) | 6.699 | 130 | 291361 | 10.000 | ng | #-0.01 |
| 96) 1,4-Difluorobenzene(sim) | 7.889 | 114 | 955460 | 10.000 | ng | -0.01 |
| 106) Chlorobenzene-d5(sim) | 10.430 | 82 | 470733 | 10.000 | ng | 0.00 |
| System Monitoring Compounds | | | | | | |
| 63) % Bromofluorobenzene | 11.281 | 95 | 554433 | 9.999 | ppbv | 0.00 |
| Spiked Amount 10.000 | Range 70 - 130 | | Recovery = 100.00% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Propylene | 3.403 | 41 | 3802 | 0.084 | ppbv# | 85 |
| 3) Dichlorodifluoromethane | 3.457 | 85 | 2963 | 0.038 | ppbv# | 76 |
| 4) Chloromethane | 3.618 | 50 | 2440 | 0.050 | ppbv | 80 |
| 5) 1,2-Dichlorotetrafluor... | 3.694 | 85 | 3012 | 0.040 | ppbv | 90 |
| 6) Vinyl Chloride | 3.801 | 62 | 1303 | 0.038 | ppbv | 82 |
| 7) 1,3-Butadiene | 3.909 | 54 | 1811 | 0.051 | ppbv | 95 |
| 8) Bromomethane | 4.103 | 94 | 720 | 0.029 | ppbv# | 53 |
| 9) Chloroethane | 4.243 | 64 | 554 | 0.035 | ppbv | 100 |
| 11) Ethanol | 4.362 | 45 | 736 | 0.034 | ppbv# | 26 |
| 12) Acetone | 4.642 | 43 | 506 | 0.006 | ppbv | 100 |
| 13) Trichlorofluoromethane | 4.793 | 101 | 3743 | 0.046 | ppbv | 97 |
| 14) Isopropylalcohol | 4.955 | 45 | 4994 | 0.051 | ppbv | 96 |
| 15) Acrylonitrile | 5.041 | 53 | 753 | 0.023 | ppbv | 93 |
| 16) 1,1-Dichloroethene | 5.235 | 61 | 2433 | 0.042 | ppbv# | 90 |
| 17) Methylene Chloride | 5.313 | 49 | 2918 | 0.048 | ppbv# | 84 |
| 20) Carbon Disulfide | 5.511 | 76 | 2842 | 0.040 | ppbv# | 85 |
| 21) Trichlorotrifluoroethane | 5.485 | 101 | 2413 | 0.043 | ppbv# | 92 |
| 22) Trans-1,2-Dichloroethene | 5.923 | 61 | 2147 | 0.041 | ppbv# | 88 |
| 23) 1,1-Dichloroethane | 6.057 | 63 | 2707 | 0.046 | ppbv | 71 |
| 24) Methyl tert-butyl ethe... | 6.096 | 73 | 304 | 0.004 | ppbv# | 36 |
| 26) Methyl Ethyl Ketone | 6.317 | 43 | 175 | 0.002 | ppbv# | 39 |
| 27) Cis-1,2-Dichloroethene | 6.590 | 61 | 2187 | 0.044 | ppbv# | 86 |
| 28) Hexane | 6.704 | 57 | 2187 | 0.036 | ppbv | 99 |
| 29) Chloroform | 6.777 | 83 | 2871 | 0.046 | ppbv | 79 |
| 30) Ethyl acetate | 6.767 | 61 | 217 | 0.019 | ppbv | 100 |
| 31) Tetrahydrofuran | 7.110 | 42 | 2686 | 0.045 | ppbv | 100 |
| 32) 1,2-Dichloroethane | 7.246 | 62 | 2434 | 0.044 | ppbv# | 75 |
| 33) 1,1,1-Trichloroethane | 7.402 | 97 | 3049 | 0.043 | ppbv | 89 |
| 34) Benzene | 7.688 | 78 | 2825 | 0.038 | ppbv# | 82 |
| 35) Carbon Tetrachloride | 7.777 | 117 | 2918 | 0.039 | ppbv# | 80 |
| 36) Cyclohexane | 7.855 | 41 | 3700 | 0.078 | ppbv# | 26 |
| 38) 1,2-dichloropropane | 8.201 | 63 | 1518 | 0.042 | ppbv# | 52 |
| 39) Bromodichloromethane | 8.312 | 83 | 2082 | 0.032 | ppbv | 85 |
| 40) Trichloroethene | 8.334 | 130 | 1636 | 0.045 | ppbv# | 77 |
| 42) 1,4-Dioxane | 8.379 | 88 | 477 | 0.028 | ppbv | 100 |
| 44) Heptane | 8.490 | 43 | 3985 | 0.042 | ppbv# | 89 |
| 45) cis-1,3-Dichloropropene | 8.835 | 75 | 1778 | 0.039 | ppbv | 61 |
| 46) 4-Methyl-2-pentanone(M... | 8.880 | 43 | 3581 | 0.030 | ppbv# | 91 |
| 47) trans-1,3-Dichloropropene | 9.143 | 75 | 2145 | 0.041 | ppbv | 98 |
| 48) 1,1,2-Trichloroethane | 9.259 | 97 | 1143 | 0.034 | ppbv# | 89 |
| 49) Toluene | 9.415 | 91 | 3272 | 0.036 | ppbv# | 88 |
| 50) Dibromochloromethane | 9.677 | 129 | 2144 | 0.034 | ppbv | 94 |
| 51) 2-Hexanone(MBK) | 9.570 | 43 | 2955 | 0.029 | ppbv# | 85 |
| 52) 1,2-Dibromoethane(EDB) | 9.822 | 107 | 1748 | 0.034 | ppbv | 84 |

Data Path : H:\AIR2021\CHEM20\03MAR\26\
Data File : 0326_06.D
Acq On : 26 Mar 2021 8:27 pm
Operator :
Client ID : ICAL 0.035
Lab ID : 0.035
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 29 13:07:16 2021
Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0329.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Mar 29 13:05:55 2021
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 53) Tetrachloroethene | 10.075 | 166 | 1707 | 0.037 | ppbv# | 56 |
| 55) 1,1,1,2-Tetrachloroethane | 10.440 | 131 | 1740 | 0.041 | ppbv# | 86 |
| 56) Chlorobenzene | 10.451 | 112 | 3349 | 0.048 | ppbv# | 27 |
| 57) Ethylbenzene | 10.656 | 91 | 4547 | 0.040 | ppbv | 82 |
| 58) m,p-Xylene | 10.748 | 91 | 7386 | 0.086 | ppbv# | 80 |
| 59) Bromoform | 10.820 | 173 | 1748 | 0.037 | ppbv | 99 |
| 60) Styrene | 10.963 | 104 | 1909 | 0.033 | ppbv# | 74 |
| 61) 1,1,2,2-Tetrachloroethane | 11.025 | 83 | 2460 | 0.039 | ppbv# | 83 |
| 62) o-Xylene | 11.025 | 91 | 3326 | 0.036 | ppbv# | 75 |
| 65) Isopropylbenzene | 11.353 | 105 | 4855 | 0.038 | ppbv# | 83 |
| 67) 4-Ethyltoluene | 11.732 | 105 | 4629 | 0.037 | ppbv | 99 |
| 68) 1,3,5-Trimethylbenzene | 11.773 | 105 | 4367 | 0.042 | ppbv# | 82 |
| 69) 1,2,4-Trimethylbenzene | 12.019 | 105 | 3913 | 0.037 | ppbv# | 92 |
| 71) Benzyl chloride | 11.640 | 91 | 8357 | 0.036 | ppbv# | 90 |
| 72) 1,3-Dichlorobenzene | 12.132 | 146 | 1883 | 0.032 | ppbv | 92 |
| 73) 1,4-Dichlorobenzene | 12.173 | 146 | 1620 | 0.033 | ppbv# | 92 |
| 74) sec-Butylbenzene | 12.183 | 105 | 6020 | 0.038 | ppbv | 96 |
| 75) 4-Isopropyltoluene | 12.276 | 119 | 6125 | 0.040 | ppbv# | 91 |
| 76) 1,2-Dichlorobenzene | 12.389 | 146 | 2216 | 0.040 | ppbv# | 76 |
| 77) n-Butylbenzene | 12.553 | 91 | 3461 | 0.033 | ppbv# | 64 |
| 78) 1,2,4-Trichlorobenzene | 13.528 | 180 | 287 | 0.015 | ppbv# | 1 |
| 80) Hexachlorobutadiene | 13.856 | 225 | 1886 | 0.049 | ppbv | 92 |
| 82] 1,2-Dichlorotetrafluor... | 3.694 | 85 | 3012 | 0.038 | ppbv | 90 |
| 83] Vinyl Chloride(sim) | 3.785 | 62 | 1465 | 0.038 | ppbv | 97 |
| 84] Bromomethane(sim) | 4.120 | 94 | 1105m | 0.041 | ppbv | 42 |
| 85] Trichlorofluoromethane... | 4.799 | 101 | 3330 | 0.037 | ppbv# | 100 |
| 86] 1,2-Dichloroethane(sim) | 7.246 | 62 | 2434 | 0.042 | ppbv# | 75 |
| 87] 1,1,1-Trichloroethane(... | 7.397 | 97 | 2831 | 0.037 | ppbv# | 96 |
| 88] Benzene(sim) | 7.688 | 78 | 2825 | 0.037 | ppbv# | 82 |
| 89] Carbon Tetrachloride(sim) | 7.783 | 117 | 3033 | 0.037 | ppbv | 96 |
| 90] 1,1-Dichloroethene(sim) | 5.235 | 61 | 2433 | 0.040 | ppbv# | 93 |
| 91] Trichlorotrifluoroetha... | 5.491 | 101 | 2408 | 0.038 | ppbv# | 99 |
| 92] Trans-1,2-Dichloroethe... | 5.923 | 61 | 2147 | 0.040 | ppbv# | 88 |
| 93] 1,1-Dichloroethane(sim) | 6.063 | 63 | 2466 | 0.037 | ppbv | 97 |
| 94] Cis-1,2-Dichloroethene... | 6.590 | 61 | 2187 | 0.043 | ppbv# | 86 |
| 95] Chloroform(sim) | 6.772 | 83 | 2550 | 0.037 | ppbv# | 80 |
| 97] 1,2-dichloropropane(sim) | 8.195 | 63 | 1612 | 0.039 | ppbv# | 87 |
| 98] Bromodichloromethane(sim) | 8.312 | 83 | 2082 | 0.032 | ppbv | 84 |
| 99] Trichloroethene(sim) | 8.340 | 130 | 1565 | 0.036 | ppbv | 95 |
| 100] 1,4-Dioxane(sim) | 8.384 | 88 | 672m | 0.039 | ppbv | 100 |
| 101] cis-1,3-Dichloropropen... | 8.841 | 75 | 1957 | 0.039 | ppbv | 92 |
| 102] 1,1,2-Trichloroethane(... | 9.255 | 97 | 1462m | 0.042 | ppbv | 89 |
| 103] Dibromochloromethane(sim) | 9.673 | 129 | 2436m | 0.036 | ppbv | 96 |
| 104] 1,2-Dibromoethane(EDB)... | 9.818 | 107 | 1850m | 0.038 | ppbv | 84 |
| 105] Tetrachloroethene(sim) | 10.071 | 166 | 2035 | 0.037 | ppbv | 96 |
| 107] Bromoform(sim) | 10.825 | 173 | 1914 | 0.036 | ppbv | 97 |
| 108] m,p-Xylene(sim) | 10.748 | 91 | 7386 | 0.080 | ppbv# | 76 |
| 109] 1,1,2,2-Tetrachloroeth... | 11.020 | 83 | 2623 | 0.037 | ppbv | 99 |
| 112] Benzyl chloride(sim) | 12.117 | 91 | 1729m | 0.032 | ppbv | 100 |
| 113] 1,3-Dichlorobenzene(sim) | 12.138 | 146 | 1933 | 0.031 | ppbv | 96 |
| 114] 1,4-Dichlorobenzene(sim) | 12.179 | 146 | 1634m | 0.036 | ppbv | 79 |
| 115] sec-Butylbenzene(sim) | 12.189 | 105 | 6047 | 0.035 | ppbv | 99 |
| 116] 4-Isopropyltoluene(sim) | 12.276 | 119 | 5770 | 0.037 | ppbv# | 92 |
| 117] 1,2-Dichlorobenzene(sim) | 12.394 | 146 | 2133 | 0.034 | ppbv | 97 |
| 118] n-Butylbenzene(sim) | 12.553 | 91 | 3461 | 0.037 | ppbv# | 64 |
| 119] 1,2,4-Trichlorobenzene... | 13.533 | 180 | 659 | 0.034 | ppbv | 82 |
| 121] Hexachlorobutadiene(sim) | 13.851 | 225 | 2485 | 0.042 | ppbv | 96 |

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM20\03MAR\26\
Data File : 0326_06.D
Acq On : 26 Mar 2021 8:27 pm
Operator :
Client ID : ICAL 0.035
Lab ID : 0.035
ALS Vial : 4 Sample Multiplier: 1

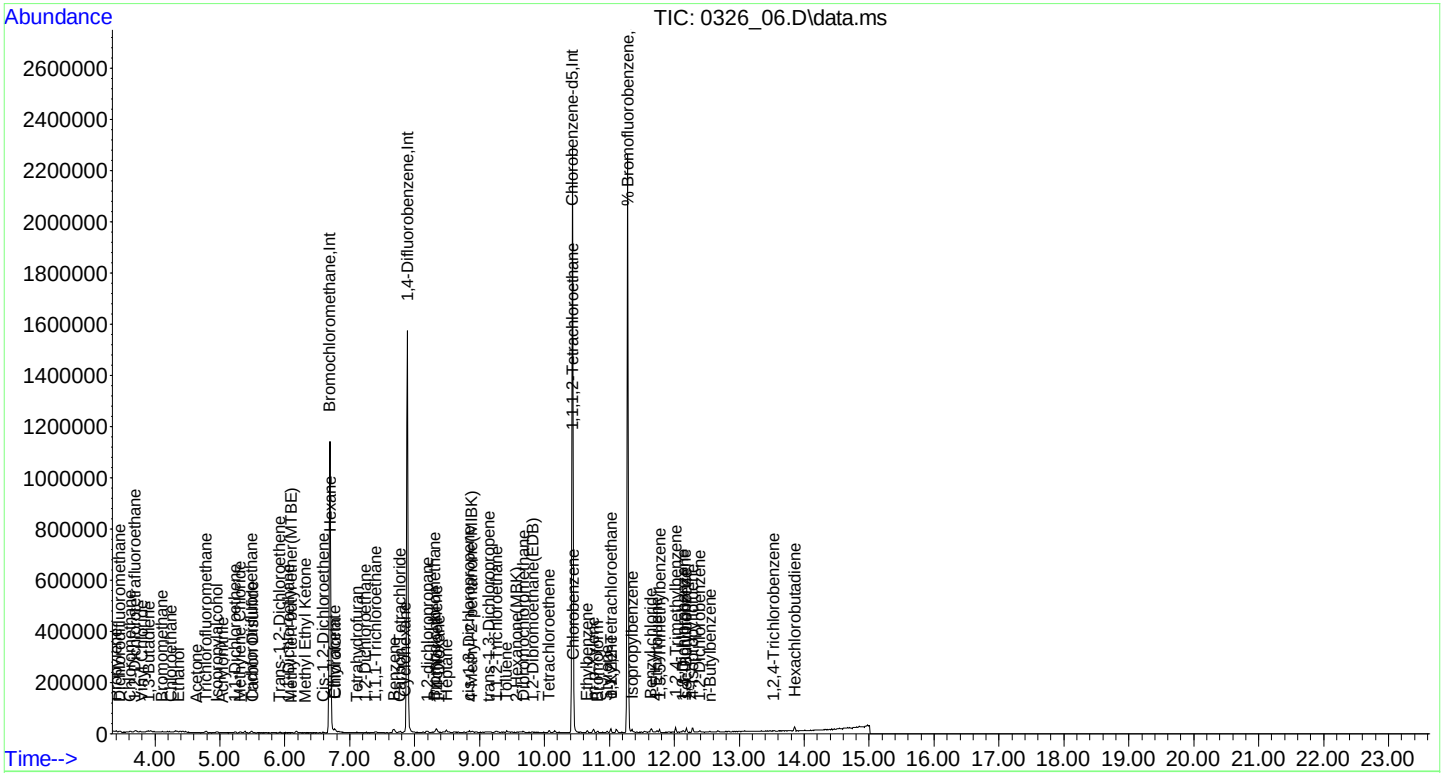
Quant Time: Mar 29 13:07:16 2021
Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0329.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Mar 29 13:05:55 2021
Response via : Initial Calibration

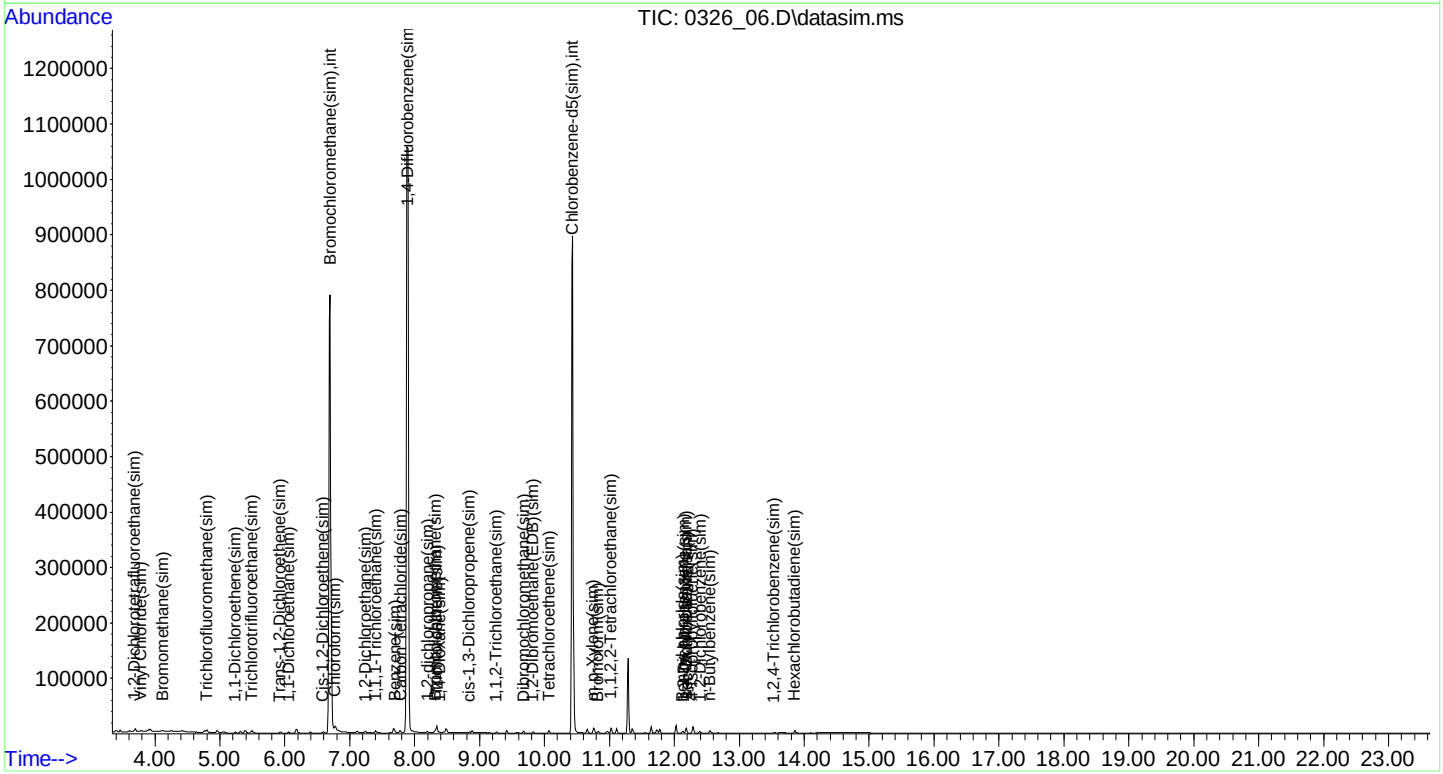
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

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

Data Path : H:\AIR2021\CHEM20\03MAR\26\
Data File : 0326_06.D
Acq On : 26 Mar 2021 8:27 pm
Operator :
Client ID : ICAL 0.035
Lab ID : 0.035
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 29 13:07:16 2021
Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0329.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Mar 29 13:05:55 2021
Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM20\03MAR\26\
Data File : 0326_07.D
Acq On : 26 Mar 2021 9:03 pm
Operator :
Client ID : ICAL 0.05
Lab ID : 0.05
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 29 13:08:06 2021
Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0329.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Mar 29 13:07:30 2021
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Bromochloromethane | 6.704 | 130 | 248393 | 10.000 | ng | | 0.00 |
| 37) 1,4-Difluorobenzene | 7.889 | 114 | 939203 | 10.000 | ng | | 0.00 |
| 54) Chlorobenzene-d5 | 10.430 | 82 | 460789 | 10.000 | ng | | 0.00 |
| 81) Bromochloromethane(sim) | 6.710 | 130 | 286101 | 10.000 | ng | # | 0.01 |
| 96) 1,4-Difluorobenzene(sim) | 7.889 | 114 | 939203 | 10.000 | ng | | 0.00 |
| 106) Chlorobenzene-d5(sim) | 10.430 | 82 | 460789 | 10.000 | ng | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 63) % Bromofluorobenzene | 11.281 | 95 | 539244 | 9.935 | ppbv | | 0.00 |
| Spiked Amount 10.000 | Range 70 - 130 | | Recovery = | 99.40% | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) Propylene | 3.435 | 41 | 3559 | 0.081 | ppbv# | | 63 |
| 3) Dichlorodifluoromethane | 3.489 | 85 | 3783 | 0.051 | ppbv# | | 91 |
| 4) Chloromethane | 3.640 | 50 | 2776 | 0.060 | ppbv | | 89 |
| 5) 1,2-Dichlorotetrafluor... | 3.715 | 85 | 4260 | 0.059 | ppbv# | | 89 |
| 6) Vinyl Chloride | 3.812 | 62 | 1952 | 0.059 | ppbv | | 84 |
| 7) 1,3-Butadiene | 3.931 | 54 | 2532 | 0.074 | ppbv# | | 82 |
| 8) Bromomethane | 4.135 | 94 | 1273 | 0.054 | ppbv# | | 74 |
| 9) Chloroethane | 4.276 | 64 | 1007 | 0.067 | ppbv# | | 54 |
| 11) Ethanol | 4.373 | 45 | 851 | 0.041 | ppbv# | | 1 |
| 12) Acetone | 4.696 | 43 | 354 | 0.005 | ppbv | | 100 |
| 13) Trichlorofluoromethane | 4.814 | 101 | 4429 | 0.057 | ppbv# | | 92 |
| 14) Isopropylalcohol | 4.955 | 45 | 5321 | 0.057 | ppbv# | | 86 |
| 15) Acrylonitrile | 5.052 | 53 | 1736 | 0.056 | ppbv# | | 52 |
| 16) 1,1-Dichloroethene | 5.252 | 61 | 3176 | 0.057 | ppbv# | | 89 |
| 17) Methylene Chloride | 5.330 | 49 | 3562 | 0.061 | ppbv# | | 85 |
| 20) Carbon Disulfide | 5.528 | 76 | 3572 | 0.053 | ppbv | | 100 |
| 21) Trichlorotrifluoroethane | 5.502 | 101 | 2914 | 0.054 | ppbv | | 95 |
| 22) Trans-1,2-Dichloroethene | 5.946 | 61 | 2467 | 0.049 | ppbv# | | 87 |
| 23) 1,1-Dichloroethane | 6.065 | 63 | 2695 | 0.047 | ppbv | | 85 |
| 24) Methyl tert-butyl ethe... | 6.073 | 73 | 648 | 0.009 | ppbv# | | 35 |
| 26) Methyl Ethyl Ketone | 6.388 | 43 | 6175 | 0.059 | ppbv | | 100 |
| 27) Cis-1,2-Dichloroethene | 6.600 | 61 | 2534 | 0.053 | ppbv# | | 83 |
| 28) Hexane | 6.714 | 57 | 3096 | 0.053 | ppbv# | | 68 |
| 29) Chloroform | 6.787 | 83 | 3426 | 0.057 | ppbv | | 84 |
| 30) Ethyl acetate | 6.766 | 61 | 326 | 0.030 | ppbv | | 100 |
| 31) Tetrahydrofuran | 7.110 | 42 | 3536 | 0.062 | ppbv# | | 94 |
| 32) 1,2-Dichloroethane | 7.256 | 62 | 3095 | 0.058 | ppbv | | 92 |
| 33) 1,1,1-Trichloroethane | 7.402 | 97 | 3814 | 0.056 | ppbv | | 96 |
| 34) Benzene | 7.688 | 78 | 3713 | 0.051 | ppbv# | | 84 |
| 35) Carbon Tetrachloride | 7.777 | 117 | 3674 | 0.051 | ppbv | | 87 |
| 36) Cyclohexane | 7.855 | 41 | 3281 | 0.072 | ppbv# | | 46 |
| 38) 1,2-dichloropropane | 8.200 | 63 | 2407 | 0.068 | ppbv | | 83 |
| 39) Bromodichloromethane | 8.312 | 83 | 3377 | 0.052 | ppbv | | 83 |
| 40) Trichloroethene | 8.334 | 130 | 2002 | 0.056 | ppbv | | 89 |
| 42) 1,4-Dioxane | 8.379 | 88 | 926 | 0.056 | ppbv | | 91 |
| 44) Heptane | 8.490 | 43 | 4736 | 0.050 | ppbv# | | 93 |
| 45) cis-1,3-Dichloropropene | 8.846 | 75 | 2699 | 0.060 | ppbv | | 96 |
| 46) 4-Methyl-2-pentanone(M... | 8.880 | 43 | 4971 | 0.042 | ppbv# | | 86 |
| 47) trans-1,3-Dichloropropene | 9.153 | 75 | 3331 | 0.065 | ppbv# | | 93 |
| 48) 1,1,2-Trichloroethane | 9.250 | 97 | 1929 | 0.059 | ppbv# | | 82 |
| 49) Toluene | 9.415 | 91 | 4409 | 0.049 | ppbv# | | 91 |
| 50) Dibromochloromethane | 9.677 | 129 | 2852 | 0.045 | ppbv | | 96 |
| 51) 2-Hexanone(MBK) | 9.570 | 43 | 2664 | 0.026 | ppbv# | | 34 |
| 52) 1,2-Dibromoethane(EDB) | 9.822 | 107 | 2530 | 0.050 | ppbv | | 86 |

Data Path : H:\AIR2021\CHEM20\03MAR\26\
Data File : 0326_07.D
Acq On : 26 Mar 2021 9:03 pm
Operator :
Client ID : ICAL 0.05
Lab ID : 0.05
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 29 13:08:06 2021
Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0329.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Mar 29 13:07:30 2021
Response via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 53) | Tetrachloroethene | 10.065 | 166 | 2171 | 0.048 | ppbv# | 83 |
| 55) | 1,1,1,2-Tetrachloroethane | 10.440 | 131 | 2239 | 0.054 | ppbv# | 87 |
| 56) | Chlorobenzene | 10.450 | 112 | 3531 | 0.052 | ppbv | 92 |
| 57) | Ethylbenzene | 10.655 | 91 | 5445 | 0.049 | ppbv | 91 |
| 58) | m,p-Xylene | 10.758 | 91 | 8854 | 0.105 | ppbv# | 87 |
| 59) | Bromoform | 10.819 | 173 | 2435 | 0.052 | ppbv# | 92 |
| 60) | Styrene | 10.963 | 104 | 2405 | 0.042 | ppbv# | 71 |
| 61) | 1,1,2,2-Tetrachloroethane | 11.024 | 83 | 3413 | 0.056 | ppbv | 93 |
| 62) | o-Xylene | 11.024 | 91 | 4352 | 0.048 | ppbv | 98 |
| 65) | Isopropylbenzene | 11.352 | 105 | 6576 | 0.052 | ppbv | 93 |
| 67) | 4-Ethyltoluene | 11.732 | 105 | 6134 | 0.050 | ppbv# | 92 |
| 68) | 1,3,5-Trimethylbenzene | 11.763 | 105 | 4505 | 0.044 | ppbv# | 74 |
| 69) | 1,2,4-Trimethylbenzene | 12.019 | 105 | 4718 | 0.045 | ppbv# | 90 |
| 71) | Benzyl chloride | 11.639 | 91 | 10419 | 0.045 | ppbv | 97 |
| 72) | 1,3-Dichlorobenzene | 12.132 | 146 | 1722 | 0.030 | ppbv# | 86 |
| 73) | 1,4-Dichlorobenzene | 12.173 | 146 | 1815 | 0.037 | ppbv# | 52 |
| 74) | sec-Butylbenzene | 12.183 | 105 | 7241 | 0.047 | ppbv | 97 |
| 75) | 4-Isopropyltoluene | 12.276 | 119 | 7306 | 0.049 | ppbv | 91 |
| 76) | 1,2-Dichlorobenzene | 12.389 | 146 | 1681 | 0.031 | ppbv# | 42 |
| 77) | n-Butylbenzene | 12.542 | 91 | 4026 | 0.039 | ppbv# | 76 |
| 78) | 1,2,4-Trichlorobenzene | 13.528 | 180 | 631 | 0.035 | ppbv# | 48 |
| 80) | Hexachlorobutadiene | 13.856 | 225 | 2221 | 0.059 | ppbv | 89 |
| 82] | 1,2-Dichlorotetrafluor... | 3.715 | 85 | 4260 | 0.054 | ppbv# | 89 |
| 83] | Vinyl Chloride(sim) | 3.818 | 62 | 1809 | 0.048 | ppbv | 99 |
| 84] | Bromomethane(sim) | 4.141 | 94 | 1418m | 0.054 | ppbv | 16 |
| 85] | Trichlorofluoromethane... | 4.820 | 101 | 4468 | 0.050 | ppbv# | 99 |
| 86] | 1,2-Dichloroethane(sim) | 7.256 | 62 | 3095 | 0.054 | ppbv | 92 |
| 87] | 1,1,1-Trichloroethane(... | 7.407 | 97 | 3835 | 0.051 | ppbv# | 98 |
| 88] | Benzene(sim) | 7.688 | 78 | 3713 | 0.050 | ppbv# | 84 |
| 89] | Carbon Tetrachloride(sim) | 7.783 | 117 | 4016 | 0.050 | ppbv | 96 |
| 90] | 1,1-Dichloroethene(sim) | 5.252 | 61 | 3176 | 0.053 | ppbv# | 88 |
| 91] | Trichlorotrifluoroetha... | 5.508 | 101 | 3163 | 0.050 | ppbv# | 99 |
| 92] | Trans-1,2-Dichloroethe... | 5.946 | 61 | 2467 | 0.047 | ppbv# | 87 |
| 93] | 1,1-Dichloroethane(sim) | 6.078 | 63 | 3365 | 0.051 | ppbv | 96 |
| 94] | Cis-1,2-Dichloroethene... | 6.600 | 61 | 2534 | 0.051 | ppbv# | 83 |
| 95] | Chloroform(sim) | 6.782 | 83 | 3439 | 0.051 | ppbv | 91 |
| 97] | 1,2-dichloropropane(sim) | 8.195 | 63 | 1997 | 0.049 | ppbv | 100 |
| 98] | Bromodichloromethane(sim) | 8.312 | 83 | 3377 | 0.052 | ppbv | 83 |
| 99] | Trichloroethene(sim) | 8.340 | 130 | 2190 | 0.051 | ppbv | 95 |
| 100] | 1,4-Dioxane(sim) | 8.379 | 88 | 926 | 0.055 | ppbv# | 73 |
| 101] | cis-1,3-Dichloropropen... | 8.841 | 75 | 2636 | 0.053 | ppbv | 95 |
| 102] | 1,1,2-Trichloroethane(... | 9.250 | 97 | 1929 | 0.056 | ppbv | 79 |
| 103] | Dibromochloromethane(sim) | 9.672 | 129 | 3312 | 0.050 | ppbv | 99 |
| 104] | 1,2-Dibromoethane(EDB)... | 9.822 | 107 | 2530 | 0.053 | ppbv | 81 |
| 105] | Tetrachloroethene(sim) | 10.070 | 166 | 2701 | 0.050 | ppbv | 97 |
| 107] | Bromoform(sim) | 10.825 | 173 | 2590 | 0.050 | ppbv | 97 |
| 108] | m,p-Xylene(sim) | 10.758 | 91 | 8854 | 0.098 | ppbv# | 87 |
| 109] | 1,1,2,2-Tetrachloroeth... | 11.020 | 83 | 3367 | 0.049 | ppbv | 99 |
| 112] | Benzyl chloride(sim) | 12.122 | 91 | 2122 | 0.040 | ppbv | 78 |
| 113] | 1,3-Dichlorobenzene(sim) | 12.138 | 146 | 2613 | 0.043 | ppbv | 97 |
| 114] | 1,4-Dichlorobenzene(sim) | 12.173 | 146 | 1815 | 0.040 | ppbv# | 51 |
| 115] | sec-Butylbenzene(sim) | 12.189 | 105 | 8081 | 0.047 | ppbv | 98 |
| 116] | 4-Isopropyltoluene(sim) | 12.276 | 119 | 7167 | 0.047 | ppbv# | 91 |
| 117] | 1,2-Dichlorobenzene(sim) | 12.394 | 146 | 2911 | 0.047 | ppbv | 99 |
| 118] | n-Butylbenzene(sim) | 12.542 | 91 | 4026 | 0.044 | ppbv | 76 |
| 119] | 1,2,4-Trichlorobenzene... | 13.533 | 180 | 839 | 0.044 | ppbv | 97 |
| 121] | Hexachlorobutadiene(sim) | 13.851 | 225 | 3008 | 0.052 | ppbv | 94 |

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM20\03MAR\26\
Data File : 0326_07.D
Acq On : 26 Mar 2021 9:03 pm
Operator :
Client ID : ICAL 0.05
Lab ID : 0.05
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 29 13:08:06 2021
Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0329.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Mar 29 13:07:30 2021
Response via : Initial Calibration

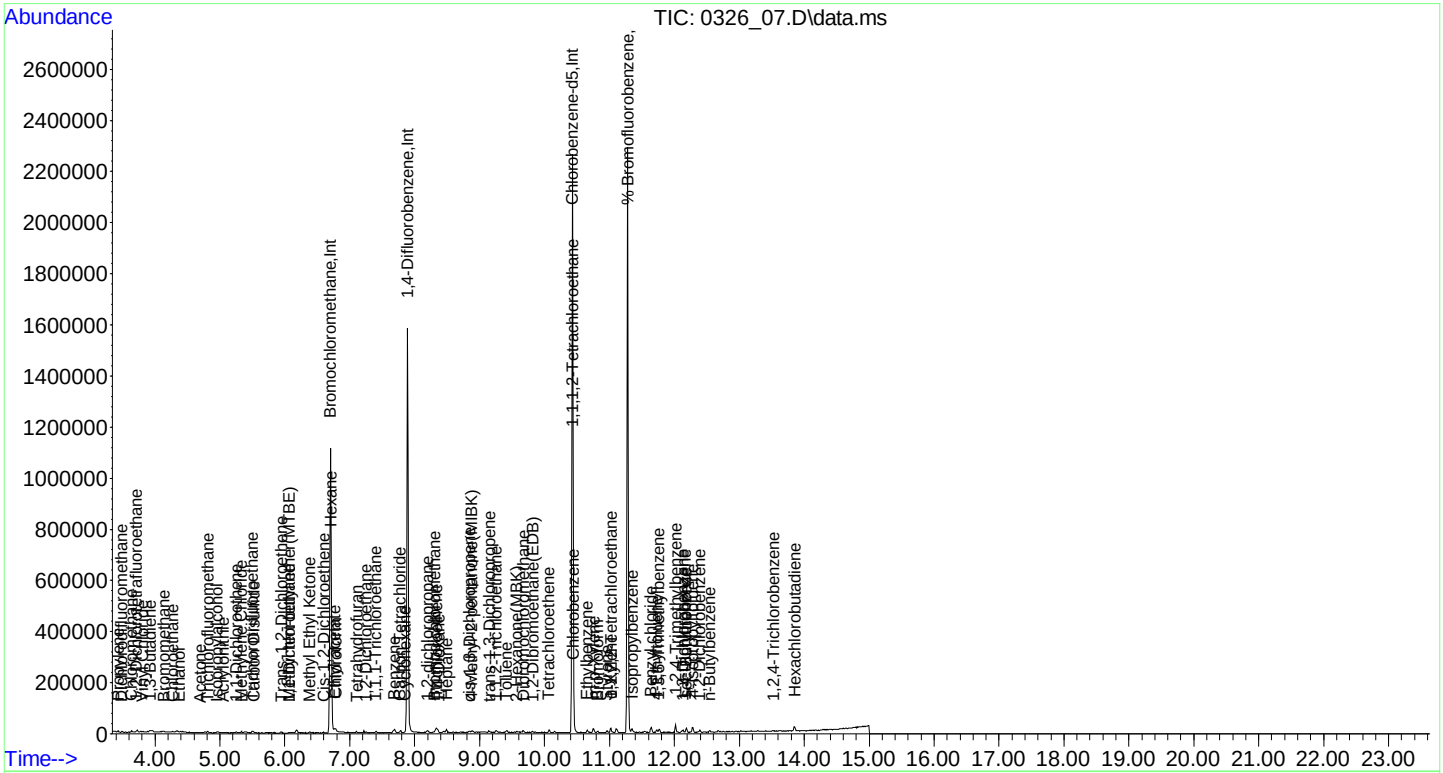
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

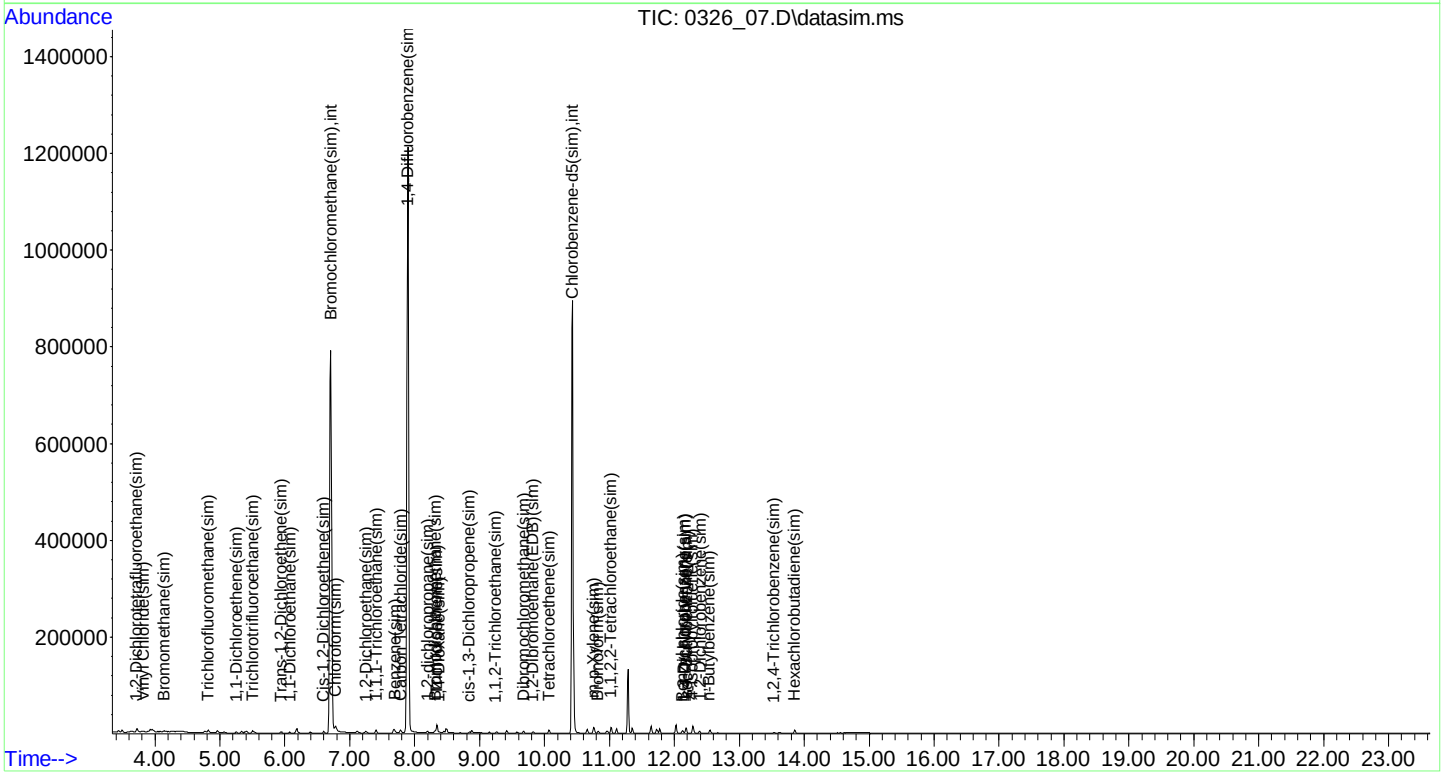
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM20\03MAR\26\
Data File : 0326_07.D
Acq On : 26 Mar 2021 9:03 pm
Operator :
Client ID : ICAL 0.05
Lab ID : 0.05
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 29 13:08:06 2021
Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0329.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Mar 29 13:07:30 2021
Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM20\03MAR\26\
Data File : 0326_08.D
Acq On : 26 Mar 2021 9:39 pm
Operator :
Client ID : ICAL 0.1
Lab ID : 0.10
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 29 13:08:58 2021
Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0329.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Mar 29 13:08:16 2021
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Bromochloromethane | 6.694 | 130 | 252907 | 10.000 | ng | -0.01 |
| 37) 1,4-Difluorobenzene | 7.889 | 114 | 948949 | 10.000 | ng | 0.00 |
| 54) Chlorobenzene-d5 | 10.430 | 82 | 470482 | 10.000 | ng | 0.00 |
| 81) Bromochloromethane(sim) | 6.699 | 130 | 288175 | 10.000 | ng | #-0.01 |
| 96) 1,4-Difluorobenzene(sim) | 7.889 | 114 | 947700 | 10.000 | ng | 0.00 |
| 106) Chlorobenzene-d5(sim) | 10.430 | 82 | 470607 | 10.000 | ng | 0.00 |
| System Monitoring Compounds | | | | | | |
| 63) % Bromofluorobenzene | 11.281 | 95 | 548213 | 9.893 | ppbv | 0.00 |
| Spiked Amount 10.000 | Range 70 - 130 | | Recovery = | 98.90% | | |
| Target Compounds | | | | | | Qvalue |
| 2) Propylene | 3.413 | 41 | 5438 | 0.122 | ppbv# | 84 |
| 3) Dichlorodifluoromethane | 3.467 | 85 | 8500 | 0.112 | ppbv# | 83 |
| 4) Chloromethane | 3.618 | 50 | 5598 | 0.118 | ppbv | 98 |
| 5) 1,2-Dichlorotetrafluor... | 3.694 | 85 | 7615 | 0.104 | ppbv | 99 |
| 6) Vinyl Chloride | 3.791 | 62 | 3030 | 0.090 | ppbv | 85 |
| 7) 1,3-Butadiene | 3.909 | 54 | 3377 | 0.097 | ppbv# | 83 |
| 8) Bromomethane | 4.114 | 94 | 3026 | 0.125 | ppbv# | 36 |
| 9) Chloroethane | 4.254 | 64 | 1572 | 0.102 | ppbv | 99 |
| 11) Ethanol | 4.308 | 45 | 1361 | 0.064 | ppbv | 100 |
| 12) Acetone | 4.761 | 43 | 10207 | 0.131 | ppbv | 100 |
| 13) Trichlorofluoromethane | 4.804 | 101 | 8923 | 0.113 | ppbv | 92 |
| 14) Isopropylalcohol | 4.955 | 45 | 11359 | 0.119 | ppbv | 98 |
| 15) Acrylonitrile | 5.052 | 53 | 3160 | 0.100 | ppbv# | 61 |
| 16) 1,1-Dichloroethene | 5.235 | 61 | 5589 | 0.098 | ppbv | 99 |
| 17) Methylene Chloride | 5.321 | 49 | 6609 | 0.111 | ppbv | 94 |
| 20) Carbon Disulfide | 5.519 | 76 | 6832 | 0.099 | ppbv# | 95 |
| 21) Trichlorotrifluoroethane | 5.493 | 101 | 5787 | 0.105 | ppbv# | 89 |
| 22) Trans-1,2-Dichloroethene | 5.923 | 61 | 5064 | 0.098 | ppbv# | 85 |
| 23) 1,1-Dichloroethane | 6.057 | 63 | 6686 | 0.115 | ppbv | 93 |
| 24) Methyl tert-butyl ethe... | 6.041 | 73 | 225 | 0.003 | ppbv# | 1 |
| 26) Methyl Ethyl Ketone | 6.372 | 43 | 8695 | 0.081 | ppbv# | 89 |
| 27) Cis-1,2-Dichloroethene | 6.589 | 61 | 4523 | 0.093 | ppbv# | 75 |
| 28) Hexane | 6.714 | 57 | 5883 | 0.099 | ppbv | 95 |
| 29) Chloroform | 6.777 | 83 | 5713 | 0.093 | ppbv# | 80 |
| 30) Ethyl acetate | 6.767 | 61 | 798 | 0.072 | ppbv | 100 |
| 31) Tetrahydrofuran | 7.100 | 42 | 5914 | 0.102 | ppbv# | 77 |
| 32) 1,2-Dichloroethane | 7.246 | 62 | 5214 | 0.096 | ppbv# | 85 |
| 33) 1,1,1-Trichloroethane | 7.402 | 97 | 6939 | 0.100 | ppbv | 92 |
| 34) Benzene | 7.688 | 78 | 7615 | 0.103 | ppbv# | 87 |
| 35) Carbon Tetrachloride | 7.777 | 117 | 7110 | 0.097 | ppbv | 85 |
| 36) Cyclohexane | 7.855 | 41 | 5947 | 0.128 | ppbv# | 54 |
| 38) 1,2-dichloropropane | 8.201 | 63 | 4127 | 0.115 | ppbv# | 88 |
| 39) Bromodichloromethane | 8.312 | 83 | 5905 | 0.090 | ppbv | 81 |
| 40) Trichloroethene | 8.334 | 130 | 3569 | 0.098 | ppbv# | 83 |
| 42) 1,4-Dioxane | 8.368 | 88 | 1554 | 0.092 | ppbv# | 71 |
| 44) Heptane | 8.479 | 43 | 9587 | 0.101 | ppbv# | 82 |
| 45) cis-1,3-Dichloropropene | 8.846 | 75 | 4444 | 0.099 | ppbv | 89 |
| 46) 4-Methyl-2-pentanone(M... | 8.880 | 43 | 10515 | 0.089 | ppbv# | 96 |
| 47) trans-1,3-Dichloropropene | 9.143 | 75 | 5351 | 0.103 | ppbv# | 72 |
| 48) 1,1,2-Trichloroethane | 9.250 | 97 | 3162 | 0.096 | ppbv | 87 |
| 49) Toluene | 9.415 | 91 | 8186 | 0.090 | ppbv# | 80 |
| 50) Dibromochloromethane | 9.667 | 129 | 5724 | 0.090 | ppbv | 93 |
| 51) 2-Hexanone(MBK) | 9.570 | 43 | 7877 | 0.077 | ppbv# | 87 |
| 52) 1,2-Dibromoethane(EDB) | 9.822 | 107 | 4516 | 0.089 | ppbv | 97 |

Data Path : H:\AIR2021\CHEM20\03MAR\26\
Data File : 0326_08.D
Acq On : 26 Mar 2021 9:39 pm
Operator :
Client ID : ICAL 0.1
Lab ID : 0.10
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 29 13:08:58 2021
Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0329.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Mar 29 13:08:16 2021
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 53) Tetrachloroethene | 10.065 | 166 | 4128 | 0.091 | ppbv | 94 |
| 55) 1,1,1,2-Tetrachloroethane | 10.440 | 131 | 4991 | 0.118 | ppbv | 83 |
| 56) Chlorobenzene | 10.450 | 112 | 7400 | 0.106 | ppbv# | 35 |
| 57) Ethylbenzene | 10.655 | 91 | 11324 | 0.100 | ppbv | 86 |
| 58) m,p-Xylene | 10.748 | 91 | 16470 | 0.192 | ppbv | 98 |
| 59) Bromoform | 10.819 | 173 | 4739 | 0.100 | ppbv | 96 |
| 60) Styrene | 10.963 | 104 | 4559 | 0.078 | ppbv# | 76 |
| 61) 1,1,2,2-Tetrachloroethane | 11.014 | 83 | 6841 | 0.109 | ppbv# | 88 |
| 62) o-Xylene | 11.024 | 91 | 8585 | 0.094 | ppbv | 94 |
| 65) Isopropylbenzene | 11.352 | 105 | 12945 | 0.101 | ppbv | 92 |
| 67) 4-Ethyltoluene | 11.732 | 105 | 11395 | 0.090 | ppbv# | 97 |
| 68) 1,3,5-Trimethylbenzene | 11.763 | 105 | 9676 | 0.092 | ppbv# | 94 |
| 69) 1,2,4-Trimethylbenzene | 12.019 | 105 | 9109 | 0.085 | ppbv | 94 |
| 71) Benzyl chloride | 11.639 | 91 | 21419 | 0.092 | ppbv | 97 |
| 72) 1,3-Dichlorobenzene | 12.132 | 146 | 4141 | 0.071 | ppbv | 94 |
| 73) 1,4-Dichlorobenzene | 12.173 | 146 | 3833 | 0.077 | ppbv | 87 |
| 74) sec-Butylbenzene | 12.183 | 105 | 13760 | 0.088 | ppbv | 95 |
| 75) 4-Isopropyltoluene | 12.276 | 119 | 14148 | 0.093 | ppbv | 96 |
| 76) 1,2-Dichlorobenzene | 12.389 | 146 | 4507 | 0.081 | ppbv# | 56 |
| 77) n-Butylbenzene | 12.542 | 91 | 7239 | 0.069 | ppbv# | 91 |
| 78) 1,2,4-Trichlorobenzene | 13.528 | 180 | 808 | 0.043 | ppbv# | 69 |
| 80) Hexachlorobutadiene | 13.856 | 225 | 4703 | 0.123 | ppbv# | 87 |
| 82] 1,2-Dichlorotetrafluor... | 3.694 | 85 | 7615 | 0.096 | ppbv | 99 |
| 83] Vinyl Chloride(sim) | 3.796 | 62 | 3701 | 0.098 | ppbv | 97 |
| 84] Bromomethane(sim) | 4.114 | 94 | 3026 | 0.114 | ppbv# | 45 |
| 85] Trichlorofluoromethane... | 4.799 | 101 | 8869 | 0.099 | ppbv# | 99 |
| 86] 1,2-Dichloroethane(sim) | 7.246 | 62 | 5214 | 0.091 | ppbv# | 85 |
| 87] 1,1,1-Trichloroethane(... | 7.408 | 97 | 7469 | 0.098 | ppbv# | 99 |
| 88] Benzene(sim) | 7.688 | 78 | 7615 | 0.102 | ppbv# | 87 |
| 89] Carbon Tetrachloride(sim) | 7.783 | 117 | 7962 | 0.099 | ppbv | 99 |
| 90] 1,1-Dichloroethene(sim) | 5.235 | 61 | 5589 | 0.093 | ppbv | 99 |
| 91] Trichlorotrifluoroetha... | 5.490 | 101 | 6403 | 0.101 | ppbv# | 96 |
| 92] Trans-1,2-Dichloroethe... | 5.923 | 61 | 5064 | 0.096 | ppbv# | 85 |
| 93] 1,1-Dichloroethane(sim) | 6.062 | 63 | 6539 | 0.098 | ppbv | 98 |
| 94] Cis-1,2-Dichloroethene... | 6.589 | 61 | 4523 | 0.090 | ppbv# | 75 |
| 95] Chloroform(sim) | 6.783 | 83 | 6614 | 0.098 | ppbv# | 87 |
| 97] 1,2-dichloropropane(sim) | 8.195 | 63 | 3959 | 0.097 | ppbv | 92 |
| 98] Bromodichloromethane(sim) | 8.312 | 83 | 5905 | 0.090 | ppbv | 80 |
| 99] Trichloroethene(sim) | 8.329 | 130 | 4227 | 0.098 | ppbv | 98 |
| 100] 1,4-Dioxane(sim) | 8.373 | 88 | 1809m | 0.106 | ppbv | 92 |
| 101] cis-1,3-Dichloropropen... | 8.841 | 75 | 4706 | 0.093 | ppbv | 95 |
| 102] 1,1,2-Trichloroethane(... | 9.250 | 97 | 2931 | 0.085 | ppbv# | 80 |
| 103] Dibromochloromethane(sim) | 9.673 | 129 | 6464 | 0.097 | ppbv | 99 |
| 104] 1,2-Dibromoethane(EDB)... | 9.822 | 107 | 4516 | 0.093 | ppbv | 97 |
| 105] Tetrachloroethene(sim) | 10.070 | 166 | 5402 | 0.100 | ppbv | 99 |
| 107] Bromoform(sim) | 10.825 | 173 | 5033 | 0.095 | ppbv | 99 |
| 108] m,p-Xylene(sim) | 10.748 | 91 | 16470 | 0.178 | ppbv | 98 |
| 109] 1,1,2,2-Tetrachloroeth... | 11.020 | 83 | 6711 | 0.096 | ppbv | 97 |
| 112] Benzyl chloride(sim) | 12.111 | 91 | 4702 | 0.086 | ppbv | 86 |
| 113] 1,3-Dichlorobenzene(sim) | 12.138 | 146 | 5399 | 0.088 | ppbv | 97 |
| 114] 1,4-Dichlorobenzene(sim) | 12.173 | 146 | 3833 | 0.083 | ppbv | 87 |
| 115] sec-Butylbenzene(sim) | 12.189 | 105 | 16270 | 0.093 | ppbv | 99 |
| 116] 4-Isopropyltoluene(sim) | 12.276 | 119 | 14148 | 0.091 | ppbv | 96 |
| 117] 1,2-Dichlorobenzene(sim) | 12.394 | 146 | 5516 | 0.088 | ppbv | 97 |
| 118] n-Butylbenzene(sim) | 12.542 | 91 | 7239 | 0.078 | ppbv | 91 |
| 119] 1,2,4-Trichlorobenzene... | 13.533 | 180 | 1499 | 0.078 | ppbv | 96 |
| 121] Hexachlorobutadiene(sim) | 13.851 | 225 | 5544 | 0.094 | ppbv | 98 |

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM20\03MAR\26\
Data File : 0326_08.D
Acq On : 26 Mar 2021 9:39 pm
Operator :
Client ID : ICAL 0.1
Lab ID : 0.10
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 29 13:08:58 2021
Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0329.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Mar 29 13:08:16 2021
Response via : Initial Calibration

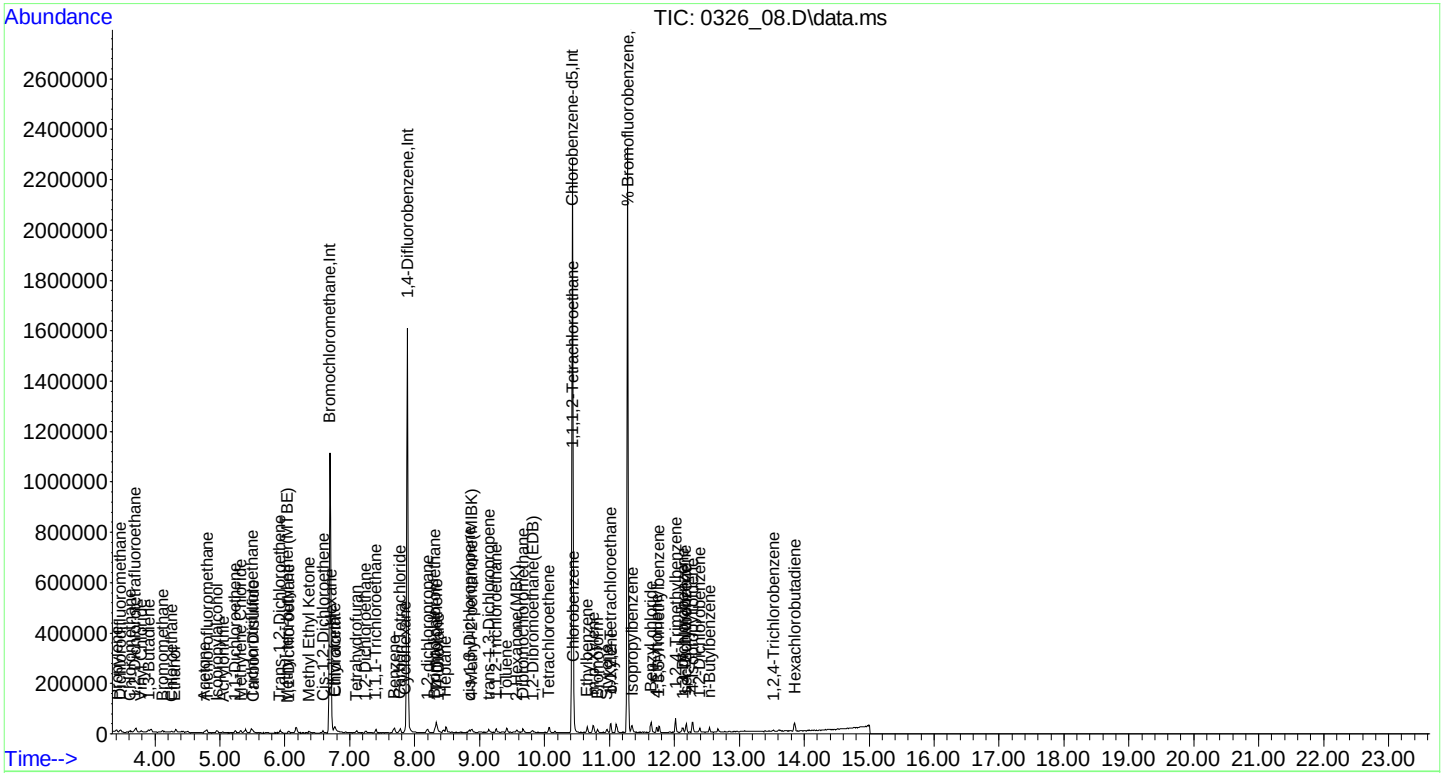
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

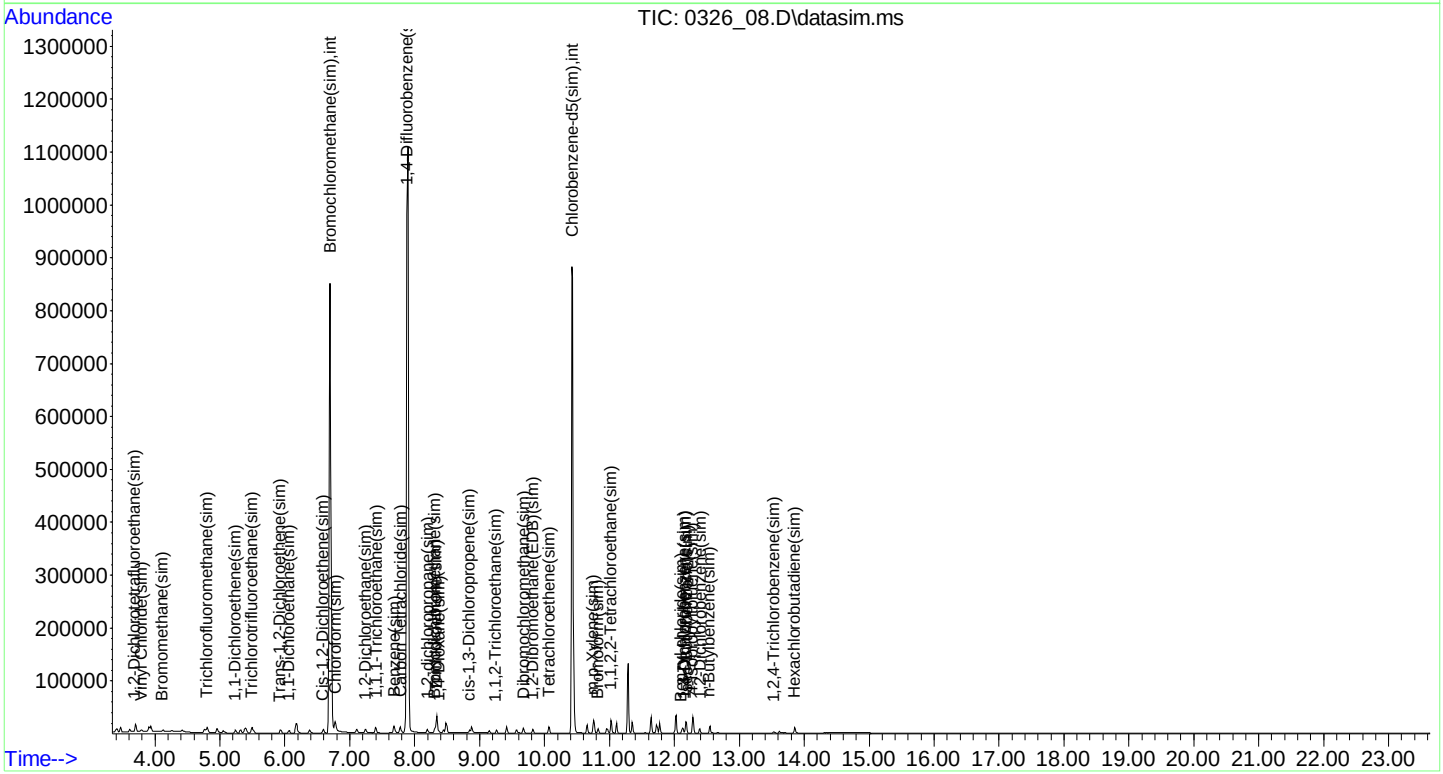
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM20\03MAR\26\
Data File : 0326_08.D
Acq On : 26 Mar 2021 9:39 pm
Operator :
Client ID : ICAL 0.1
Lab ID : 0.10
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 29 13:08:58 2021
Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0329.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Mar 29 13:08:16 2021
Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM20\03MAR\26\
Data File : 0326_09.D
Acq On : 26 Mar 2021 10:16 pm
Operator :
Client ID : ICAL 0.25
Lab ID : 0.20
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 29 13:09:59 2021
Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0329.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Mar 29 13:09:22 2021
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Bromochloromethane | 6.704 | 130 | 248349 | 10.000 | ng | | 0.00 |
| 37) 1,4-Difluorobenzene | 7.889 | 114 | 951057 | 10.000 | ng | | 0.00 |
| 54) Chlorobenzene-d5 | 10.430 | 82 | 467498 | 10.000 | ng | | 0.00 |
| 81) Bromochloromethane(sim) | 6.710 | 130 | 282638 | 10.000 | ng | # | 0.01 |
| 96) 1,4-Difluorobenzene(sim) | 7.889 | 114 | 951074 | 10.000 | ng | | 0.00 |
| 106) Chlorobenzene-d5(sim) | 10.430 | 82 | 468055 | 10.000 | ng | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 63) % Bromofluorobenzene | 11.281 | 95 | 553240 | 10.047 | ppbv | | 0.00 |
| Spiked Amount 10.000 | Range 70 - 130 | | Recovery = 100.50% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) Propylene | 3.446 | 41 | 8822 | 0.202 | ppbv | | 94 |
| 3) Dichlorodifluoromethane | 3.499 | 85 | 15221 | 0.204 | ppbv# | | 88 |
| 4) Chloromethane | 3.629 | 50 | 9657 | 0.207 | ppbv | | 94 |
| 5) 1,2-Dichlorotetrafluor... | 3.726 | 85 | 14319 | 0.199 | ppbv | | 90 |
| 6) Vinyl Chloride | 3.812 | 62 | 6608 | 0.199 | ppbv | | 97 |
| 7) 1,3-Butadiene | 3.920 | 54 | 6591 | 0.194 | ppbv | | 83 |
| 8) Bromomethane | 4.135 | 94 | 5074 | 0.214 | ppbv# | | 89 |
| 9) Chloroethane | 4.276 | 64 | 2560 | 0.170 | ppbv | | 92 |
| 11) Ethanol | 4.426 | 45 | 5105m | 0.244 | ppbv | | 87 |
| 12) Acetone | 4.771 | 43 | 16212 | 0.212 | ppbv# | | 86 |
| 13) Trichlorofluoromethane | 4.814 | 101 | 15598 | 0.201 | ppbv | | 90 |
| 14) Isopropylalcohol | 4.955 | 45 | 18883 | 0.201 | ppbv | | 96 |
| 15) Acrylonitrile | 5.052 | 53 | 5988 | 0.193 | ppbv | | 96 |
| 16) 1,1-Dichloroethene | 5.252 | 61 | 10683 | 0.192 | ppbv | | 92 |
| 17) Methylene Chloride | 5.330 | 49 | 12645 | 0.216 | ppbv | | 99 |
| 20) Carbon Disulfide | 5.537 | 76 | 13491 | 0.198 | ppbv# | | 93 |
| 21) Trichlorotrifluoroethane | 5.502 | 101 | 10759 | 0.199 | ppbv | | 97 |
| 22) Trans-1,2-Dichloroethene | 5.939 | 61 | 10883 | 0.215 | ppbv# | | 83 |
| 23) 1,1-Dichloroethane | 6.073 | 63 | 11882 | 0.208 | ppbv | | 95 |
| 24) Methyl tert-butyl ethe... | 6.159 | 73 | 14941m | 0.198 | ppbv | | 60 |
| 26) Methyl Ethyl Ketone | 6.372 | 43 | 19921 | 0.190 | ppbv# | | 94 |
| 27) Cis-1,2-Dichloroethene | 6.600 | 61 | 9020 | 0.188 | ppbv | | 96 |
| 28) Hexane | 6.725 | 57 | 11158 | 0.192 | ppbv# | | 99 |
| 29) Chloroform | 6.787 | 83 | 12016 | 0.199 | ppbv | | 89 |
| 30) Ethyl acetate | 6.766 | 61 | 2156 | 0.198 | ppbv# | | 92 |
| 31) Tetrahydrofuran | 7.100 | 42 | 10784 | 0.189 | ppbv# | | 92 |
| 32) 1,2-Dichloroethane | 7.256 | 62 | 10306 | 0.193 | ppbv# | | 90 |
| 33) 1,1,1-Trichloroethane | 7.402 | 97 | 13458 | 0.197 | ppbv | | 92 |
| 34) Benzene | 7.688 | 78 | 13756 | 0.190 | ppbv | | 98 |
| 35) Carbon Tetrachloride | 7.788 | 117 | 14011 | 0.194 | ppbv | | 91 |
| 36) Cyclohexane | 7.855 | 41 | 10617 | 0.233 | ppbv# | | 76 |
| 38) 1,2-dichloropropane | 8.200 | 63 | 7402 | 0.206 | ppbv | | 98 |
| 39) Bromodichloromethane | 8.312 | 83 | 12257 | 0.187 | ppbv | | 97 |
| 40) Trichloroethene | 8.334 | 130 | 6624 | 0.181 | ppbv | | 98 |
| 42) 1,4-Dioxane | 8.368 | 88 | 2918 | 0.173 | ppbv | | 80 |
| 44) Heptane | 8.490 | 43 | 18988 | 0.200 | ppbv | | 98 |
| 45) cis-1,3-Dichloropropene | 8.835 | 75 | 8215 | 0.182 | ppbv | | 86 |
| 46) 4-Methyl-2-pentanone(M... | 8.869 | 43 | 21320 | 0.180 | ppbv# | | 97 |
| 47) trans-1,3-Dichloropropene | 9.143 | 75 | 10197 | 0.196 | ppbv# | | 85 |
| 48) 1,1,2-Trichloroethane | 9.259 | 97 | 6543 | 0.198 | ppbv | | 91 |
| 49) Toluene | 9.424 | 91 | 17042 | 0.188 | ppbv | | 90 |
| 50) Dibromochloromethane | 9.677 | 129 | 11720 | 0.184 | ppbv | | 91 |
| 51) 2-Hexanone(MBK) | 9.560 | 43 | 15195 | 0.148 | ppbv# | | 90 |
| 52) 1,2-Dibromoethane(EDB) | 9.812 | 107 | 9449 | 0.185 | ppbv | | 92 |

Data Path : H:\AIR2021\CHEM20\03MAR\26\
Data File : 0326_09.D
Acq On : 26 Mar 2021 10:16 pm
Operator :
Client ID : ICAL 0.25
Lab ID : 0.20
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 29 13:09:59 2021
Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0329.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Mar 29 13:09:22 2021
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 53) Tetrachloroethene | 10.075 | 166 | 9982 | 0.219 | ppbv# | 80 |
| 55) 1,1,1,2-Tetrachloroethane | 10.440 | 131 | 8994 | 0.214 | ppbv# | 81 |
| 56) Chlorobenzene | 10.450 | 112 | 14738 | 0.213 | ppbv# | 65 |
| 57) Ethylbenzene | 10.655 | 91 | 23176 | 0.207 | ppbv | 89 |
| 58) m,p-Xylene | 10.758 | 91 | 34889 | 0.410 | ppbv | 94 |
| 59) Bromoform | 10.819 | 173 | 9198 | 0.195 | ppbv | 97 |
| 60) Styrene | 10.963 | 104 | 9219 | 0.158 | ppbv | 92 |
| 61) 1,1,2,2-Tetrachloroethane | 11.014 | 83 | 12372 | 0.199 | ppbv# | 72 |
| 62) o-Xylene | 11.024 | 91 | 18214 | 0.200 | ppbv | 95 |
| 65) Isopropylbenzene | 11.352 | 105 | 26352 | 0.207 | ppbv | 94 |
| 67) 4-Ethyltoluene | 11.721 | 105 | 22659 | 0.181 | ppbv# | 96 |
| 68) 1,3,5-Trimethylbenzene | 11.773 | 105 | 19450 | 0.187 | ppbv# | 87 |
| 69) 1,2,4-Trimethylbenzene | 12.019 | 105 | 19654 | 0.185 | ppbv | 97 |
| 71) Benzyl chloride | 11.639 | 91 | 42766 | 0.184 | ppbv# | 96 |
| 72) 1,3-Dichlorobenzene | 12.132 | 146 | 9904 | 0.171 | ppbv# | 87 |
| 73) 1,4-Dichlorobenzene | 12.173 | 146 | 8066 | 0.164 | ppbv# | 84 |
| 74) sec-Butylbenzene | 12.183 | 105 | 29775 | 0.191 | ppbv | 99 |
| 75) 4-Isopropyltoluene | 12.276 | 119 | 28436 | 0.189 | ppbv | 98 |
| 76) 1,2-Dichlorobenzene | 12.388 | 146 | 9682 | 0.175 | ppbv | 98 |
| 77) n-Butylbenzene | 12.542 | 91 | 16550 | 0.159 | ppbv | 94 |
| 78) 1,2,4-Trichlorobenzene | 13.517 | 180 | 2195 | 0.119 | ppbv# | 90 |
| 80) Hexachlorobutadiene | 13.856 | 225 | 8494 | 0.223 | ppbv | 96 |
| 82] 1,2-Dichlorotetrafluor... | 3.726 | 85 | 14320 | 0.184 | ppbv | 91 |
| 83] Vinyl Chloride(sim) | 3.818 | 62 | 7074 | 0.191 | ppbv | 99 |
| 84] Bromomethane(sim) | 4.135 | 94 | 5074 | 0.194 | ppbv# | 89 |
| 85] Trichlorofluoromethane... | 4.820 | 101 | 17098 | 0.194 | ppbv# | 99 |
| 86] 1,2-Dichloroethane(sim) | 7.256 | 62 | 10306 | 0.183 | ppbv# | 90 |
| 87] 1,1,1-Trichloroethane(... | 7.407 | 97 | 14741 | 0.197 | ppbv# | 99 |
| 88] Benzene(sim) | 7.688 | 78 | 13756 | 0.188 | ppbv | 98 |
| 89] Carbon Tetrachloride(sim) | 7.783 | 117 | 15215 | 0.192 | ppbv | 99 |
| 90] 1,1-Dichloroethene(sim) | 5.252 | 61 | 10683 | 0.181 | ppbv | 91 |
| 91] Trichlorotrifluoroetha... | 5.508 | 101 | 12212 | 0.196 | ppbv# | 99 |
| 92] Trans-1,2-Dichloroethe... | 5.939 | 61 | 10883 | 0.209 | ppbv# | 83 |
| 93] 1,1-Dichloroethane(sim) | 6.078 | 63 | 12594 | 0.193 | ppbv | 99 |
| 94] Cis-1,2-Dichloroethene... | 6.600 | 61 | 9020 | 0.184 | ppbv | 96 |
| 95] Chloroform(sim) | 6.793 | 83 | 12909 | 0.195 | ppbv | 94 |
| 97] 1,2-dichloropropane(sim) | 8.195 | 63 | 7596 | 0.185 | ppbv | 100 |
| 98] Bromodichloromethane(sim) | 8.312 | 83 | 12257 | 0.187 | ppbv | 96 |
| 99] Trichloroethene(sim) | 8.340 | 130 | 8206 | 0.190 | ppbv | 100 |
| 100] 1,4-Dioxane(sim) | 8.368 | 88 | 2918 | 0.170 | ppbv# | 60 |
| 101] cis-1,3-Dichloropropen... | 8.841 | 75 | 9263 | 0.183 | ppbv | 97 |
| 102] 1,1,2-Trichloroethane(... | 9.259 | 97 | 6543 | 0.188 | ppbv | 87 |
| 103] Dibromochloromethane(sim) | 9.672 | 129 | 12696 | 0.189 | ppbv | 99 |
| 104] 1,2-Dibromoethane(EDB)... | 9.812 | 107 | 9449 | 0.194 | ppbv | 92 |
| 105] Tetrachloroethene(sim) | 10.070 | 166 | 10319 | 0.190 | ppbv | 99 |
| 107] Bromoform(sim) | 10.825 | 173 | 10004 | 0.190 | ppbv | 99 |
| 108] m,p-Xylene(sim) | 10.758 | 91 | 34889 | 0.380 | ppbv | 94 |
| 109] 1,1,2,2-Tetrachloroeth... | 11.020 | 83 | 12993 | 0.186 | ppbv | 99 |
| 112] Benzyl chloride(sim) | 12.111 | 91 | 9334 | 0.171 | ppbv | 87 |
| 113] 1,3-Dichlorobenzene(sim) | 12.138 | 146 | 11667 | 0.191 | ppbv | 98 |
| 114] 1,4-Dichlorobenzene(sim) | 12.173 | 146 | 8066 | 0.177 | ppbv | 83 |
| 115] sec-Butylbenzene(sim) | 12.189 | 105 | 32343 | 0.186 | ppbv | 100 |
| 116] 4-Isopropyltoluene(sim) | 12.276 | 119 | 28436 | 0.184 | ppbv | 98 |
| 117] 1,2-Dichlorobenzene(sim) | 12.394 | 146 | 11305 | 0.181 | ppbv | 99 |
| 118] n-Butylbenzene(sim) | 12.542 | 91 | 16550 | 0.180 | ppbv | 94 |
| 119] 1,2,4-Trichlorobenzene... | 13.523 | 180 | 3173 | 0.165 | ppbv | 97 |
| 121] Hexachlorobutadiene(sim) | 13.851 | 225 | 10705 | 0.182 | ppbv | 99 |

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM20\03MAR\26\
Data File : 0326_09.D
Acq On : 26 Mar 2021 10:16 pm
Operator :
Client ID : ICAL 0.25
Lab ID : 0.20
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 29 13:09:59 2021
Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0329.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Mar 29 13:09:22 2021
Response via : Initial Calibration

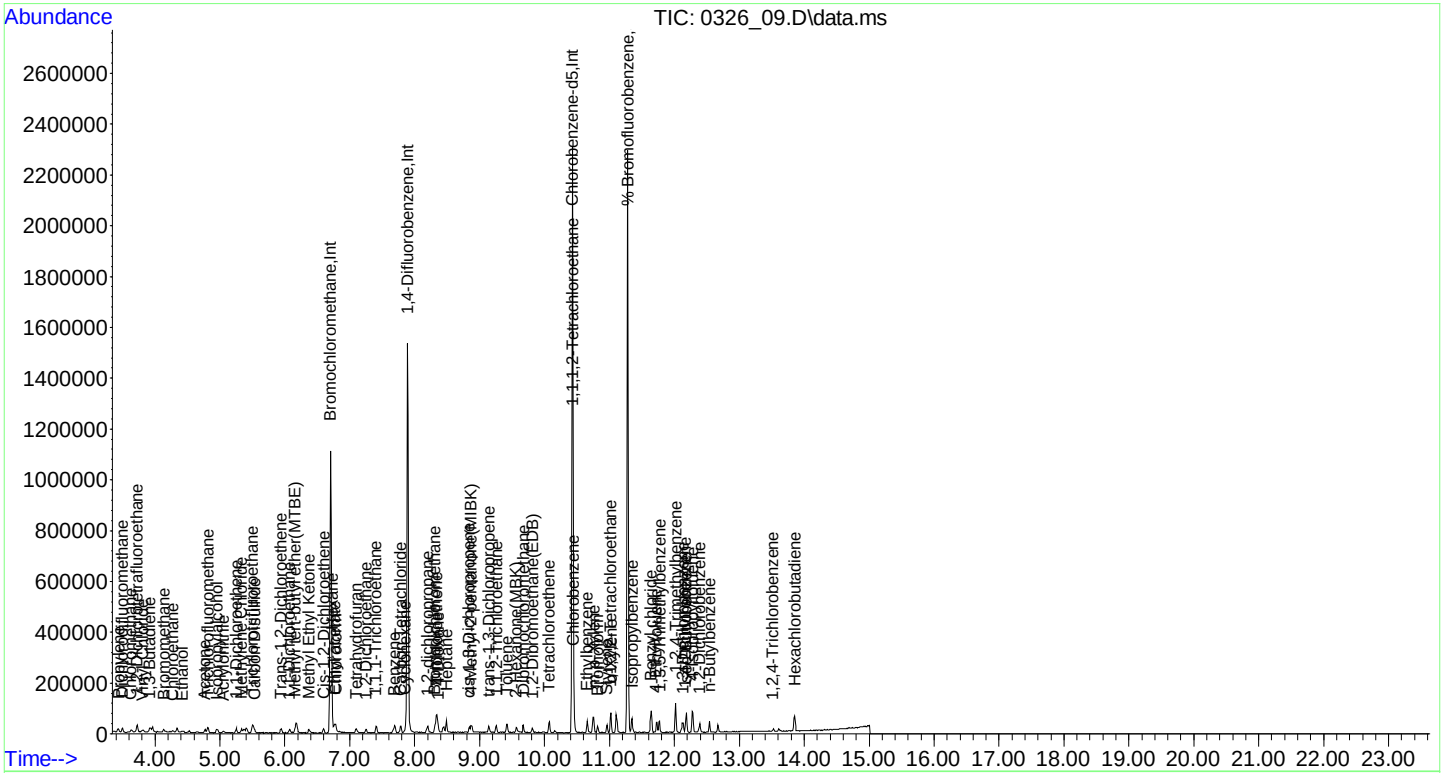
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

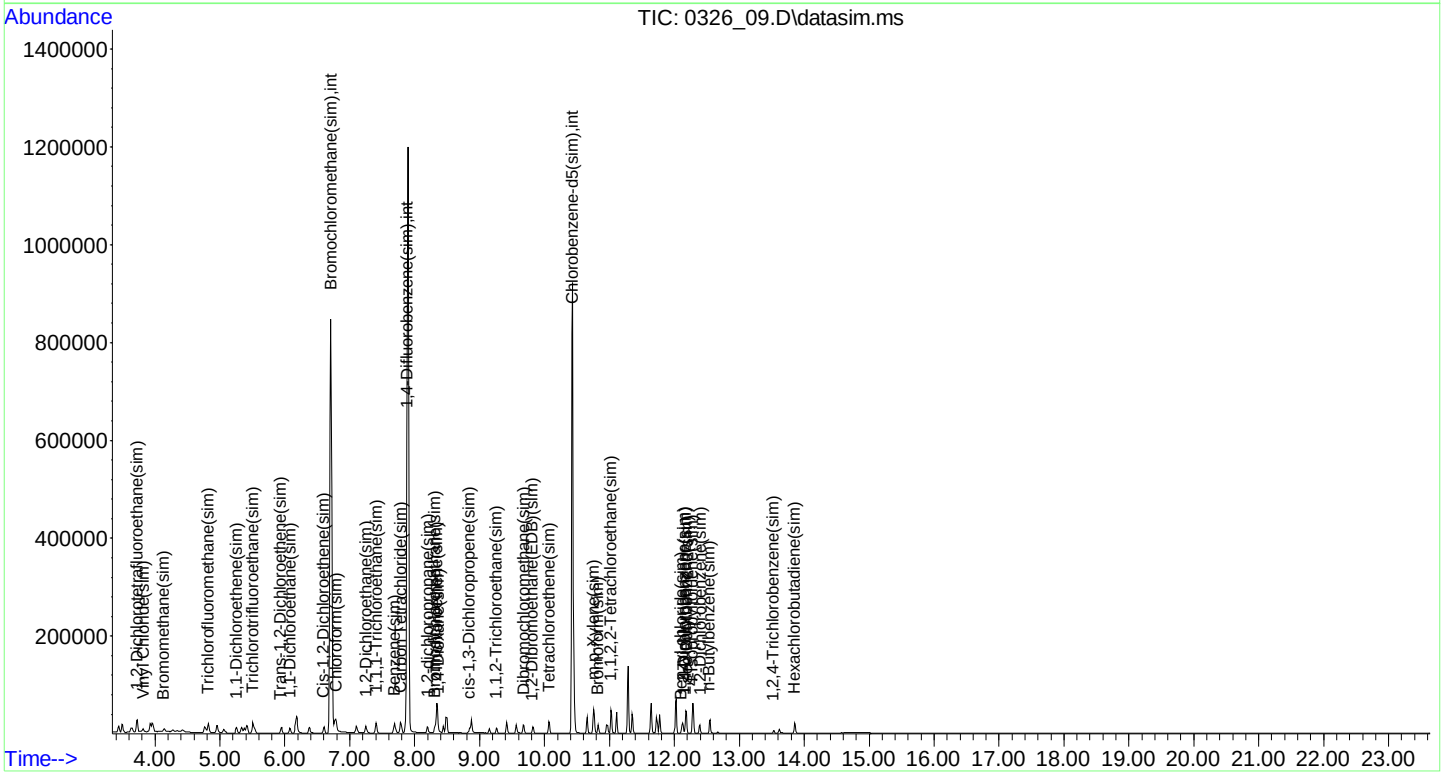
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM20\03MAR\26\
Data File : 0326_09.D
Acq On : 26 Mar 2021 10:16 pm
Operator :
Client ID : ICAL 0.25
Lab ID : 0.20
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 29 13:09:59 2021
Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0329.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Mar 29 13:09:22 2021
Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM20\03MAR\26\
Data File : 0326_10.D
Acq On : 26 Mar 2021 10:53 pm
Operator :
Client ID : ICAL 0.5
Lab ID : 0.50
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 29 08:28:21 2021
Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0329.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Mar 29 08:26:21 2021
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Bromochloromethane | 6.704 | 130 | 245496 | 10.000 | ng | -0.01 |
| 37) 1,4-Difluorobenzene | 7.889 | 114 | 946398 | 10.000 | ng | -0.01 |
| 54) Chlorobenzene-d5 | 10.430 | 82 | 470739 | 10.000 | ng | 0.00 |
| 81) Bromochloromethane(sim) | 6.710 | 130 | 282261 | 10.000 | ng | #-0.01 |
| 96) 1,4-Difluorobenzene(sim) | 7.889 | 114 | 945794 | 10.000 | ng | -0.01 |
| 106) Chlorobenzene-d5(sim) | 10.430 | 82 | 470739 | 10.000 | ng | 0.00 |
| System Monitoring Compounds | | | | | | |
| 63) % Bromofluorobenzene | 11.281 | 95 | 556756 | 0.000 | ppbv | 0.00 |
| Spiked Amount 10.000 | Range 70 - 130 | | Recovery = | 0.00%# | | |
| Target Compounds | | | | | | Qvalue |
| 2) Propylene | 3.424 | 41 | 21328 | 0.493 | ppbv | 94 |
| 3) Dichlorodifluoromethane | 3.489 | 85 | 35673 | 0.483 | ppbv# | 95 |
| 4) Chloromethane | 3.629 | 50 | 22958 | 0.498 | ppbv | 97 |
| 5) 1,2-Dichlorotetrafluor... | 3.715 | 85 | 35816 | 0.503 | ppbv | 92 |
| 6) Vinyl Chloride | 3.801 | 62 | 15973 | 0.487 | ppbv | 98 |
| 7) 1,3-Butadiene | 3.920 | 54 | 16532 | 0.492 | ppbv | 90 |
| 8) Bromomethane | 4.125 | 94 | 11414 | 0.487 | ppbv# | 95 |
| 9) Chloroethane | 4.265 | 64 | 7640 | 0.513 | ppbv | 92 |
| 11) Ethanol | 4.427 | 45 | 10691 | 0.516 | ppbv# | 85 |
| 12) Acetone | 4.761 | 43 | 39544 | 0.522 | ppbv | 100 |
| 13) Trichlorofluoromethane | 4.804 | 101 | 38430 | 0.500 | ppbv# | 89 |
| 14) Isopropylalcohol | 4.944 | 45 | 50279 | 0.542 | ppbv# | 89 |
| 15) Acrylonitrile | 5.052 | 53 | 15510 | 0.507 | ppbv# | 82 |
| 16) 1,1-Dichloroethene | 5.244 | 61 | 27681 | 0.502 | ppbv# | 80 |
| 17) Methylene Chloride | 5.330 | 49 | 29857 | 0.515 | ppbv# | 85 |
| 20) Carbon Disulfide | 5.528 | 76 | 33429 | 0.497 | ppbv# | 90 |
| 21) Trichlorotrifluoroethane | 5.502 | 101 | 25858 | 0.484 | ppbv | 87 |
| 22) Trans-1,2-Dichloroethene | 5.939 | 61 | 23654 | 0.473 | ppbv | 96 |
| 23) 1,1-Dichloroethane | 6.073 | 63 | 28282 | 0.501 | ppbv | 98 |
| 24) Methyl tert-butyl ethe... | 6.151 | 73 | 34805 | 0.467 | ppbv | 100 |
| 26) Methyl Ethyl Ketone | 6.364 | 43 | 45625 | 0.440 | ppbv | 96 |
| 27) Cis-1,2-Dichloroethene | 6.600 | 61 | 22583 | 0.477 | ppbv | 88 |
| 28) Hexane | 6.715 | 57 | 27767 | 0.483 | ppbv | 91 |
| 29) Chloroform | 6.787 | 83 | 29430 | 0.494 | ppbv | 94 |
| 30) Ethyl acetate | 6.756 | 61 | 5817 | 0.540 | ppbv# | 75 |
| 31) Tetrahydrofuran | 7.090 | 42 | 27148m | 0.482 | ppbv | 100 |
| 32) 1,2-Dichloroethane | 7.246 | 62 | 25528 | 0.483 | ppbv | 99 |
| 33) 1,1,1-Trichloroethane | 7.402 | 97 | 32760 | 0.486 | ppbv | 95 |
| 34) Benzene | 7.688 | 78 | 34206 | 0.478 | ppbv | 96 |
| 35) Carbon Tetrachloride | 7.777 | 117 | 34362 | 0.481 | ppbv | 97 |
| 36) Cyclohexane | 7.855 | 41 | 21317 | 0.474 | ppbv# | 69 |
| 38) 1,2-dichloropropane | 8.201 | 63 | 17558 | 0.490 | ppbv | 98 |
| 39) Bromodichloromethane | 8.312 | 83 | 31153 | 0.477 | ppbv | 99 |
| 40) Trichloroethene | 8.334 | 130 | 18136 | 0.499 | ppbv | 95 |
| 42) 1,4-Dioxane | 8.357 | 88 | 8249 | 0.492 | ppbv# | 80 |
| 44) Heptane | 8.490 | 43 | 43898 | 0.464 | ppbv# | 96 |
| 45) cis-1,3-Dichloropropene | 8.847 | 75 | 20178 | 0.449 | ppbv | 94 |
| 46) 4-Methyl-2-pentanone(M... | 8.869 | 43 | 51583 | 0.437 | ppbv | 94 |
| 47) trans-1,3-Dichloropropene | 9.143 | 75 | 23760 | 0.458 | ppbv | 95 |
| 48) 1,1,2-Trichloroethane | 9.259 | 97 | 15212 | 0.462 | ppbv | 98 |
| 49) Toluene | 9.415 | 91 | 40664 | 0.450 | ppbv | 97 |
| 50) Dibromochloromethane | 9.667 | 129 | 27957 | 0.442 | ppbv | 94 |
| 51) 2-Hexanone(MBK) | 9.560 | 43 | 43059 | 0.422 | ppbv# | 85 |
| 52) 1,2-Dibromoethane(EDB) | 9.813 | 107 | 23028 | 0.453 | ppbv | 96 |

Data Path : H:\AIR2021\CHEM20\03MAR\26\
Data File : 0326_10.D
Acq On : 26 Mar 2021 10:53 pm
Operator :
Client ID : ICAL 0.5
Lab ID : 0.50
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 29 08:28:21 2021
Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0329.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Mar 29 08:26:21 2021
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 53) Tetrachloroethene | 10.075 | 166 | 21641 | 0.477 | ppbv | 94 |
| 55) 1,1,1,2-Tetrachloroethane | 10.440 | 131 | 21370 | 0.504 | ppbv | 86 |
| 56) Chlorobenzene | 10.461 | 112 | 36402 | 0.523 | ppbv# | 81 |
| 57) Ethylbenzene | 10.656 | 91 | 53917 | 0.478 | ppbv | 99 |
| 58) m,p-Xylene | 10.748 | 91 | 86598 | 1.010 | ppbv | 98 |
| 59) Bromoform | 10.820 | 173 | 21951 | 0.461 | ppbv | 97 |
| 60) Styrene | 10.963 | 104 | 25351 | 0.432 | ppbv# | 86 |
| 61) 1,1,2,2-Tetrachloroethane | 11.025 | 83 | 29938 | 0.478 | ppbv | 97 |
| 62) o-Xylene | 11.025 | 91 | 44866 | 0.489 | ppbv# | 96 |
| 65) Isopropylbenzene | 11.352 | 105 | 61801 | 0.482 | ppbv | 98 |
| 67) 4-Ethyltoluene | 11.722 | 105 | 55011 | 0.437 | ppbv | 92 |
| 68) 1,3,5-Trimethylbenzene | 11.773 | 105 | 52597 | 0.502 | ppbv | 98 |
| 69) 1,2,4-Trimethylbenzene | 12.019 | 105 | 48481 | 0.453 | ppbv | 97 |
| 71) Benzyl chloride | 11.640 | 91 | 109920 | 0.469 | ppbv | 98 |
| 72) 1,3-Dichlorobenzene | 12.132 | 146 | 25739 | 0.442 | ppbv | 96 |
| 73) 1,4-Dichlorobenzene | 12.173 | 146 | 21030 | 0.423 | ppbv | 97 |
| 74) sec-Butylbenzene | 12.183 | 105 | 75354 | 0.480 | ppbv | 100 |
| 75) 4-Isopropyltoluene | 12.276 | 119 | 68804 | 0.454 | ppbv | 99 |
| 76) 1,2-Dichlorobenzene | 12.389 | 146 | 24836 | 0.445 | ppbv | 94 |
| 77) n-Butylbenzene | 12.543 | 91 | 43647 | 0.416 | ppbv | 98 |
| 78) 1,2,4-Trichlorobenzene | 13.528 | 180 | 6605 | 0.355 | ppbv | 85 |
| 80) Hexachlorobutadiene | 13.856 | 225 | 20007 | 0.522 | ppbv | 92 |
| 82] 1,2-Dichlorotetrafluor... | 3.715 | 85 | 35816 | 0.461 | ppbv | 92 |
| 83] Vinyl Chloride(sim) | 3.807 | 62 | 17364 | 0.468 | ppbv | 97 |
| 84] Bromomethane(sim) | 4.125 | 94 | 11414 | 0.438 | ppbv# | 95 |
| 85] Trichlorofluoromethane... | 4.809 | 101 | 41744 | 0.475 | ppbv# | 99 |
| 86] 1,2-Dichloroethane(sim) | 7.246 | 62 | 25528 | 0.454 | ppbv | 99 |
| 87] 1,1,1-Trichloroethane(... | 7.408 | 97 | 35063 | 0.468 | ppbv# | 96 |
| 88] Benzene(sim) | 7.688 | 78 | 34206 | 0.467 | ppbv | 96 |
| 89] Carbon Tetrachloride(sim) | 7.783 | 117 | 37342 | 0.472 | ppbv | 98 |
| 90] 1,1-Dichloroethene(sim) | 5.244 | 61 | 27681 | 0.470 | ppbv# | 80 |
| 91] Trichlorotrifluoroetha... | 5.508 | 101 | 29191 | 0.469 | ppbv# | 98 |
| 92] Trans-1,2-Dichloroethe... | 5.939 | 61 | 23654 | 0.456 | ppbv | 96 |
| 93] 1,1-Dichloroethane(sim) | 6.078 | 63 | 30699 | 0.471 | ppbv | 97 |
| 94] Cis-1,2-Dichloroethene... | 6.600 | 61 | 22583 | 0.461 | ppbv | 88 |
| 95] Chloroform(sim) | 6.783 | 83 | 31171 | 0.472 | ppbv | 99 |
| 97] 1,2-dichloropropane(sim) | 8.195 | 63 | 18466 | 0.452 | ppbv | 88 |
| 98] Bromodichloromethane(sim) | 8.312 | 83 | 31036 | 0.475 | ppbv | 97 |
| 99] Trichloroethene(sim) | 8.340 | 130 | 19964 | 0.464 | ppbv | 98 |
| 100] 1,4-Dioxane(sim) | 8.357 | 88 | 8249 | 0.485 | ppbv# | 76 |
| 101] cis-1,3-Dichloropropen... | 8.841 | 75 | 22798 | 0.453 | ppbv | 99 |
| 102] 1,1,2-Trichloroethane(... | 9.259 | 97 | 15212 | 0.441 | ppbv | 100 |
| 103] Dibromochloromethane(sim) | 9.673 | 129 | 31031 | 0.465 | ppbv | 98 |
| 104] 1,2-Dibromoethane(EDB)... | 9.813 | 107 | 23028 | 0.475 | ppbv | 96 |
| 105] Tetrachloroethene(sim) | 10.071 | 166 | 25075 | 0.465 | ppbv | 99 |
| 107] Bromoform(sim) | 10.825 | 173 | 24572 | 0.464 | ppbv | 100 |
| 108] m,p-Xylene(sim) | 10.748 | 91 | 86598 | 0.937 | ppbv | 98 |
| 109] 1,1,2,2-Tetrachloroeth... | 11.020 | 83 | 32476 | 0.462 | ppbv | 99 |
| 112] Benzyl chloride(sim) | 12.112 | 91 | 26812 | 0.490 | ppbv | 94 |
| 113] 1,3-Dichlorobenzene(sim) | 12.127 | 146 | 28286 | 0.461 | ppbv | 95 |
| 114] 1,4-Dichlorobenzene(sim) | 12.173 | 146 | 21030 | 0.458 | ppbv | 96 |
| 115] sec-Butylbenzene(sim) | 12.189 | 105 | 83079 | 0.474 | ppbv | 99 |
| 116] 4-Isopropyltoluene(sim) | 12.276 | 119 | 68804 | 0.442 | ppbv | 99 |
| 117] 1,2-Dichlorobenzene(sim) | 12.394 | 146 | 28998 | 0.461 | ppbv | 99 |
| 118] n-Butylbenzene(sim) | 12.543 | 91 | 43647 | 0.471 | ppbv | 98 |
| 119] 1,2,4-Trichlorobenzene... | 13.523 | 180 | 8202 | 0.425 | ppbv | 99 |
| 121] Hexachlorobutadiene(sim) | 13.851 | 225 | 25647 | 0.434 | ppbv | 99 |

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM20\03MAR\26\
Data File : 0326_10.D
Acq On : 26 Mar 2021 10:53 pm
Operator :
Client ID : ICAL 0.5
Lab ID : 0.50
ALS Vial : 8 Sample Multiplier: 1

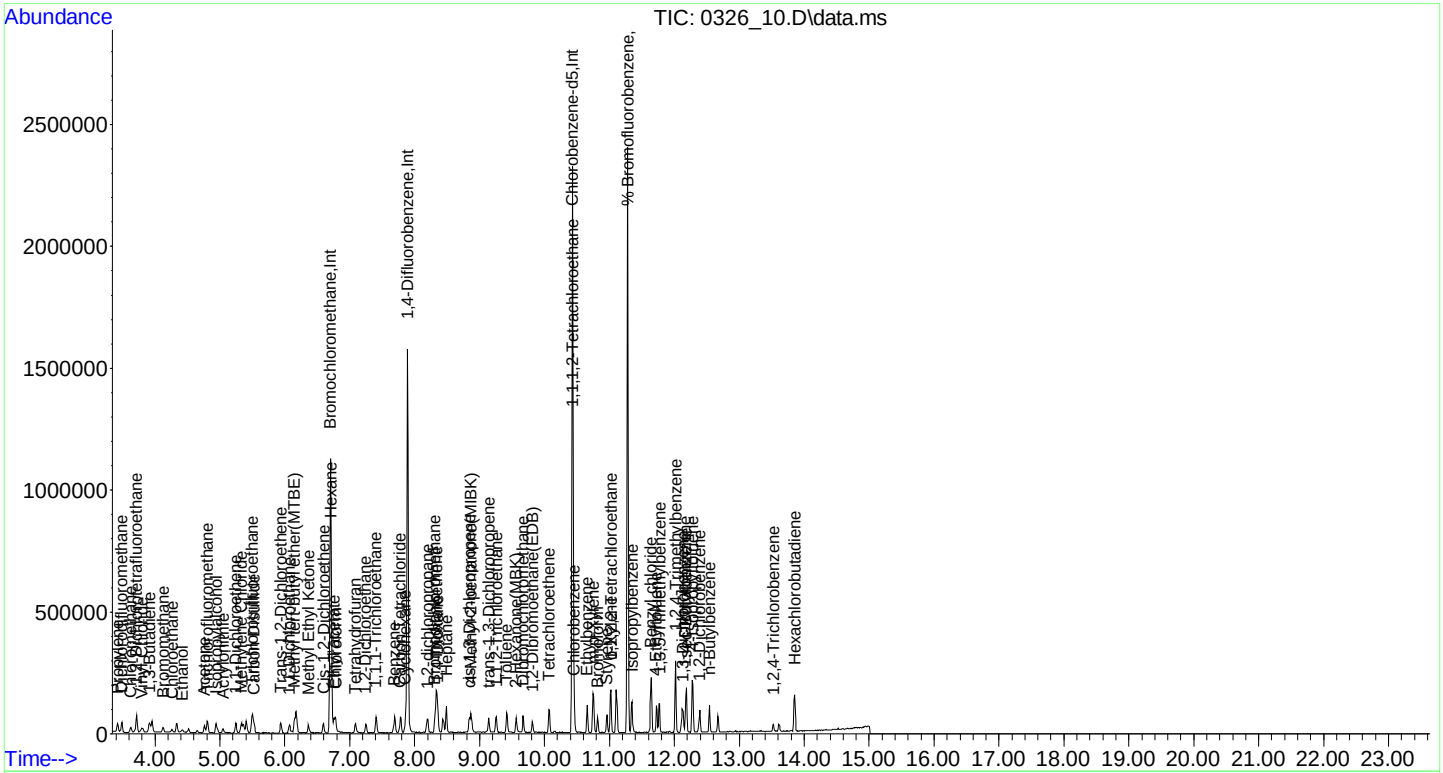
Quant Time: Mar 29 08:28:21 2021
Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0329.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Mar 29 08:26:21 2021
Response via : Initial Calibration

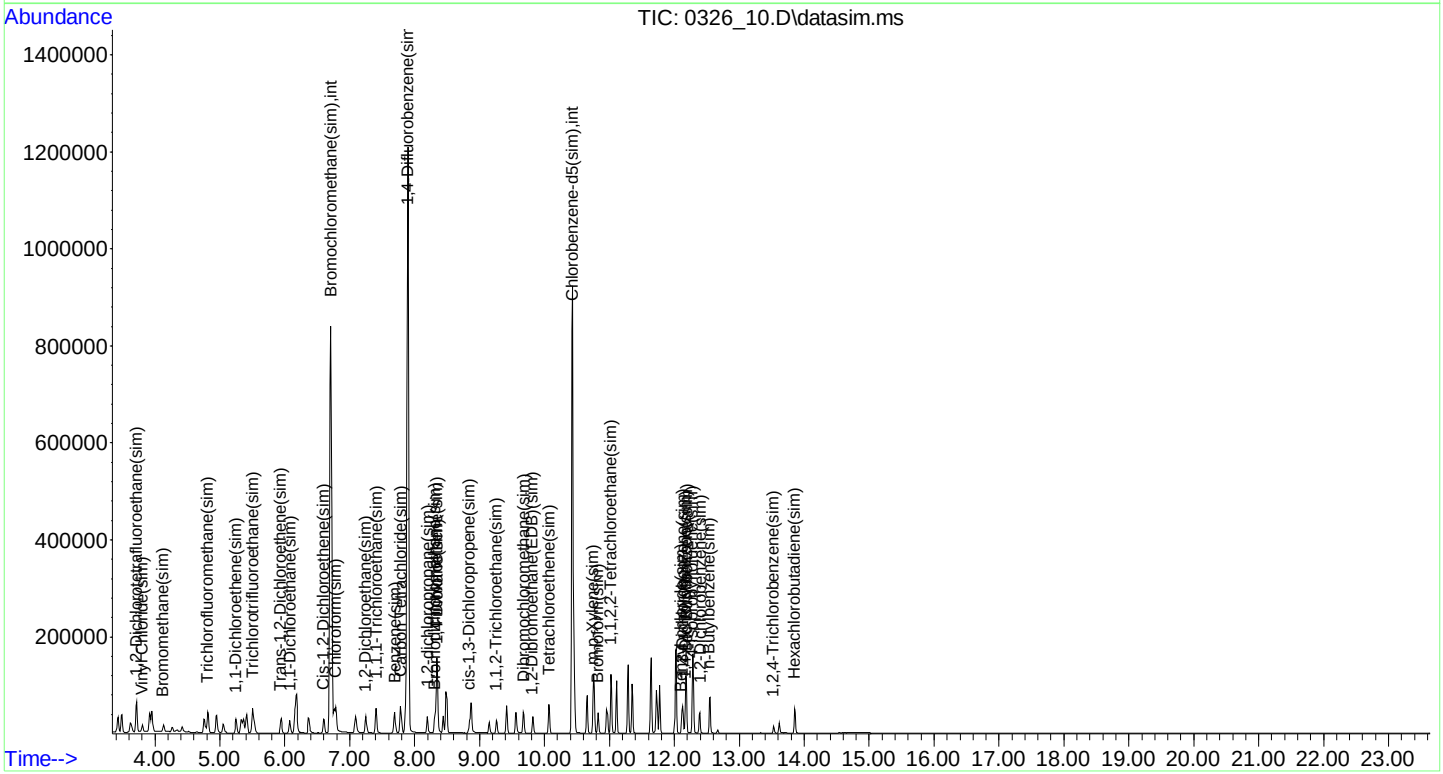
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

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

Data Path : H:\AIR2021\CHEM20\03MAR\26\
Data File : 0326_10.D
Acq On : 26 Mar 2021 10:53 pm
Operator :
Client ID : ICAL 0.5
Lab ID : 0.50
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 29 08:28:21 2021
Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0329.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Mar 29 08:26:21 2021
Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM20\03MAR\26\
Data File : 0326_11.D
Acq On : 26 Mar 2021 11:32 pm
Operator :
Client ID : ICAL 2.5
Lab ID : 2.5
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 29 08:29:19 2021
Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0329.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Mar 29 08:29:06 2021
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Bromochloromethane | 6.702 | 130 | 241949 | 10.000 | ng | | 0.00 |
| 37) 1,4-Difluorobenzene | 7.897 | 114 | 933892 | 10.000 | ng | | 0.00 |
| 54) Chlorobenzene-d5 | 10.427 | 82 | 477935 | 10.000 | ng | | 0.00 |
| 81) Bromochloromethane(sim) | 6.707 | 130 | 279552 | 10.000 | ng | # | 0.00 |
| 96) 1,4-Difluorobenzene(sim) | 7.897 | 114 | 933892 | 10.000 | ng | | 0.00 |
| 106) Chlorobenzene-d5(sim) | 10.427 | 82 | 478063 | 10.000 | ng | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 63) % Bromofluorobenzene | 11.278 | 95 | 588975 | 10.419 | ppbv | | 0.00 |
| Spiked Amount 10.000 | Range 70 - 130 | | Recovery = 104.20% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) Propylene | 3.413 | 41 | 106685 | 2.504 | ppbv | | 96 |
| 3) Dichlorodifluoromethane | 3.478 | 85 | 180668 | 2.481 | ppbv | | 99 |
| 4) Chloromethane | 3.618 | 50 | 115493 | 2.543 | ppbv | | 98 |
| 5) 1,2-Dichlorotetrafluor... | 3.704 | 85 | 169603 | 2.415 | ppbv | | 96 |
| 6) Vinyl Chloride | 3.791 | 62 | 79171 | 2.448 | ppbv | | 97 |
| 7) 1,3-Butadiene | 3.909 | 54 | 79008 | 2.384 | ppbv | | 98 |
| 8) Bromomethane | 4.114 | 94 | 56870 | 2.464 | ppbv | | 94 |
| 9) Chloroethane | 4.254 | 64 | 34516 | 2.350 | ppbv | | 93 |
| 11) Ethanol | 4.405 | 45 | 50942 | 2.495 | ppbv# | | 88 |
| 12) Acetone | 4.739 | 43 | 186964 | 2.505 | ppbv | | 98 |
| 13) Trichlorofluoromethane | 4.804 | 101 | 189307 | 2.501 | ppbv | | 99 |
| 14) Isopropylalcohol | 4.922 | 45 | 228549 | 2.499 | ppbv | | 96 |
| 15) Acrylonitrile | 5.030 | 53 | 72829 | 2.414 | ppbv | | 92 |
| 16) 1,1-Dichloroethene | 5.243 | 61 | 132310 | 2.435 | ppbv | | 96 |
| 17) Methylene Chloride | 5.321 | 49 | 142803 | 2.499 | ppbv | | 95 |
| 20) Carbon Disulfide | 5.519 | 76 | 161321 | 2.434 | ppbv | | 97 |
| 21) Trichlorotrifluoroethane | 5.493 | 101 | 129959 | 2.470 | ppbv | | 97 |
| 22) Trans-1,2-Dichloroethene | 5.939 | 61 | 116944 | 2.372 | ppbv | | 97 |
| 23) 1,1-Dichloroethane | 6.073 | 63 | 136125 | 2.447 | ppbv | | 96 |
| 24) Methyl tert-butyl ethe... | 6.128 | 73 | 177526 | 2.417 | ppbv | | 96 |
| 26) Methyl Ethyl Ketone | 6.341 | 43 | 237421 | 2.321 | ppbv | | 99 |
| 27) Cis-1,2-Dichloroethene | 6.597 | 61 | 112566 | 2.411 | ppbv | | 98 |
| 28) Hexane | 6.722 | 57 | 137181 | 2.422 | ppbv | | 95 |
| 29) Chloroform | 6.785 | 83 | 142988 | 2.433 | ppbv | | 94 |
| 30) Ethyl acetate | 6.743 | 61 | 25766 | 2.426 | ppbv | | 90 |
| 31) Tetrahydrofuran | 7.066 | 42 | 134748 | 2.429 | ppbv | | 100 |
| 32) 1,2-Dichloroethane | 7.243 | 62 | 125937 | 2.418 | ppbv | | 99 |
| 33) 1,1,1-Trichloroethane | 7.399 | 97 | 159429 | 2.398 | ppbv | | 99 |
| 34) Benzene | 7.686 | 78 | 172878 | 2.451 | ppbv | | 99 |
| 35) Carbon Tetrachloride | 7.786 | 117 | 174926 | 2.486 | ppbv | | 96 |
| 36) Cyclohexane | 7.864 | 41 | 111615 | 2.518 | ppbv# | | 81 |
| 38) 1,2-dichloropropane | 8.198 | 63 | 83399 | 2.360 | ppbv | | 100 |
| 39) Bromodichloromethane | 8.309 | 83 | 153726 | 2.383 | ppbv | | 96 |
| 40) Trichloroethene | 8.332 | 130 | 89937 | 2.508 | ppbv | | 95 |
| 42) 1,4-Dioxane | 8.343 | 88 | 37963 | 2.293 | ppbv# | | 86 |
| 44) Heptane | 8.488 | 43 | 233284 | 2.500 | ppbv | | 96 |
| 45) cis-1,3-Dichloropropene | 8.844 | 75 | 106506 | 2.401 | ppbv | | 97 |
| 46) 4-Methyl-2-pentanone(M... | 8.855 | 43 | 287033 | 2.465 | ppbv | | 98 |
| 47) trans-1,3-Dichloropropene | 9.140 | 75 | 123611 | 2.415 | ppbv | | 98 |
| 48) 1,1,2-Trichloroethane | 9.257 | 97 | 77498 | 2.383 | ppbv | | 94 |
| 49) Toluene | 9.422 | 91 | 209886 | 2.354 | ppbv | | 98 |
| 50) Dibromochloromethane | 9.674 | 129 | 149317 | 2.390 | ppbv | | 93 |
| 51) 2-Hexanone(MBK) | 9.548 | 43 | 245923 | 2.443 | ppbv | | 98 |
| 52) 1,2-Dibromoethane(EDB) | 9.820 | 107 | 118410 | 2.359 | ppbv | | 99 |

Data Path : H:\AIR2021\CHEM20\03MAR\26\
Data File : 0326_11.D
Acq On : 26 Mar 2021 11:32 pm
Operator :
Client ID : ICAL 2.5
Lab ID : 2.5
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 29 08:29:19 2021
Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0329.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Mar 29 08:29:06 2021
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 53) Tetrachloroethene | 10.072 | 166 | 104094 | 2.326 | ppbv | 94 |
| 55) 1,1,1,2-Tetrachloroethane | 10.448 | 131 | 107761 | 2.503 | ppbv | 96 |
| 56) Chlorobenzene | 10.458 | 112 | 179067 | 2.534 | ppbv# | 83 |
| 57) Ethylbenzene | 10.653 | 91 | 283439 | 2.474 | ppbv | 97 |
| 58) m,p-Xylene | 10.755 | 91 | 454344 | 5.217 | ppbv | 97 |
| 59) Bromoform | 10.827 | 173 | 120035 | 2.483 | ppbv | 95 |
| 60) Styrene | 10.960 | 104 | 151638 | 2.543 | ppbv | 95 |
| 61) 1,1,2,2-Tetrachloroethane | 11.022 | 83 | 160090 | 2.519 | ppbv | 99 |
| 62) o-Xylene | 11.022 | 91 | 238033 | 2.554 | ppbv | 99 |
| 65) Isopropylbenzene | 11.350 | 105 | 326846 | 2.510 | ppbv | 96 |
| 67) 4-Ethyltoluene | 11.729 | 105 | 329418 | 2.575 | ppbv | 96 |
| 68) 1,3,5-Trimethylbenzene | 11.770 | 105 | 267565 | 2.513 | ppbv | 96 |
| 69) 1,2,4-Trimethylbenzene | 12.017 | 105 | 280119 | 2.578 | ppbv | 98 |
| 71) Benzyl chloride | 11.637 | 91 | 602547 | 2.534 | ppbv | 98 |
| 72) 1,3-Dichlorobenzene | 12.129 | 146 | 147296 | 2.493 | ppbv | 98 |
| 73) 1,4-Dichlorobenzene | 12.171 | 146 | 124888 | 2.477 | ppbv | 97 |
| 74) sec-Butylbenzene | 12.181 | 105 | 403263 | 2.531 | ppbv | 98 |
| 75) 4-Isopropyltoluene | 12.273 | 119 | 386504 | 2.511 | ppbv | 98 |
| 76) 1,2-Dichlorobenzene | 12.386 | 146 | 143108 | 2.524 | ppbv | 97 |
| 77) n-Butylbenzene | 12.540 | 91 | 264600 | 2.482 | ppbv | 99 |
| 78) 1,2,4-Trichlorobenzene | 13.525 | 180 | 45207 | 2.391 | ppbv | 96 |
| 80) Hexachlorobutadiene | 13.853 | 225 | 104670 | 2.689 | ppbv | 94 |
| 82] 1,2-Dichlorotetrafluor... | 3.704 | 85 | 169618 | 2.205 | ppbv | 96 |
| 83] Vinyl Chloride(sim) | 3.796 | 62 | 84159 | 2.293 | ppbv | 100 |
| 84] Bromomethane(sim) | 4.114 | 94 | 56870 | 2.202 | ppbv | 94 |
| 85] Trichlorofluoromethane... | 4.809 | 101 | 202861 | 2.332 | ppbv# | 100 |
| 86] 1,2-Dichloroethane(sim) | 7.243 | 62 | 125938 | 2.262 | ppbv | 99 |
| 87] 1,1,1-Trichloroethane(... | 7.405 | 97 | 174906 | 2.358 | ppbv# | 100 |
| 88] Benzene(sim) | 7.686 | 78 | 172878 | 2.383 | ppbv | 99 |
| 89] Carbon Tetrachloride(sim) | 7.792 | 117 | 185941 | 2.372 | ppbv | 100 |
| 90] 1,1-Dichloroethene(sim) | 5.243 | 61 | 132310 | 2.267 | ppbv | 96 |
| 91] Trichlorotrifluoroetha... | 5.499 | 101 | 141598 | 2.298 | ppbv# | 100 |
| 92] Trans-1,2-Dichloroethe... | 5.939 | 61 | 116944 | 2.275 | ppbv | 97 |
| 93] 1,1-Dichloroethane(sim) | 6.078 | 63 | 149463 | 2.316 | ppbv | 99 |
| 94] Cis-1,2-Dichloroethene... | 6.597 | 61 | 112566 | 2.321 | ppbv | 98 |
| 95] Chloroform(sim) | 6.790 | 83 | 151425 | 2.317 | ppbv | 97 |
| 97] 1,2-dichloropropane(sim) | 8.192 | 63 | 91519 | 2.269 | ppbv | 99 |
| 98] Bromodichloromethane(sim) | 8.309 | 83 | 153726 | 2.383 | ppbv | 96 |
| 99] Trichloroethene(sim) | 8.337 | 130 | 98882 | 2.326 | ppbv | 100 |
| 100] 1,4-Dioxane(sim) | 8.343 | 88 | 37963 | 2.259 | ppbv# | 86 |
| 101] cis-1,3-Dichloropropen... | 8.838 | 75 | 118895 | 2.395 | ppbv | 99 |
| 102] 1,1,2-Trichloroethane(... | 9.257 | 97 | 77498 | 2.274 | ppbv | 94 |
| 103] Dibromochloromethane(sim) | 9.680 | 129 | 165289 | 2.506 | ppbv | 99 |
| 104] 1,2-Dibromoethane(EDB)... | 9.820 | 107 | 117956 | 2.465 | ppbv | 99 |
| 105] Tetrachloroethene(sim) | 10.078 | 166 | 123942 | 2.326 | ppbv | 99 |
| 107] Bromoform(sim) | 10.823 | 173 | 136512 | 2.538 | ppbv | 99 |
| 108] m,p-Xylene(sim) | 10.755 | 91 | 455695 | 4.855 | ppbv | 97 |
| 109] 1,1,2,2-Tetrachloroeth... | 11.017 | 83 | 171283 | 2.400 | ppbv | 100 |
| 112] Benzyl chloride(sim) | 12.109 | 91 | 164318 | 2.955 | ppbv | 97 |
| 113] 1,3-Dichlorobenzene(sim) | 12.135 | 146 | 175696 | 2.819 | ppbv | 94 |
| 114] 1,4-Dichlorobenzene(sim) | 12.171 | 146 | 124888 | 2.676 | ppbv | 97 |
| 115] sec-Butylbenzene(sim) | 12.186 | 105 | 448676 | 2.522 | ppbv | 100 |
| 116] 4-Isopropyltoluene(sim) | 12.273 | 119 | 386504 | 2.447 | ppbv | 98 |
| 117] 1,2-Dichlorobenzene(sim) | 12.392 | 146 | 164925 | 2.583 | ppbv | 99 |
| 118] n-Butylbenzene(sim) | 12.540 | 91 | 264600 | 2.812 | ppbv | 99 |
| 119] 1,2,4-Trichlorobenzene... | 13.520 | 180 | 55557 | 2.833 | ppbv | 99 |
| 121] Hexachlorobutadiene(sim) | 13.859 | 225 | 130031 | 2.168 | ppbv | 99 |

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM20\03MAR\26\
Data File : 0326_11.D
Acq On : 26 Mar 2021 11:32 pm
Operator :
Client ID : ICAL 2.5
Lab ID : 2.5
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 29 08:29:19 2021
Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0329.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Mar 29 08:29:06 2021
Response via : Initial Calibration

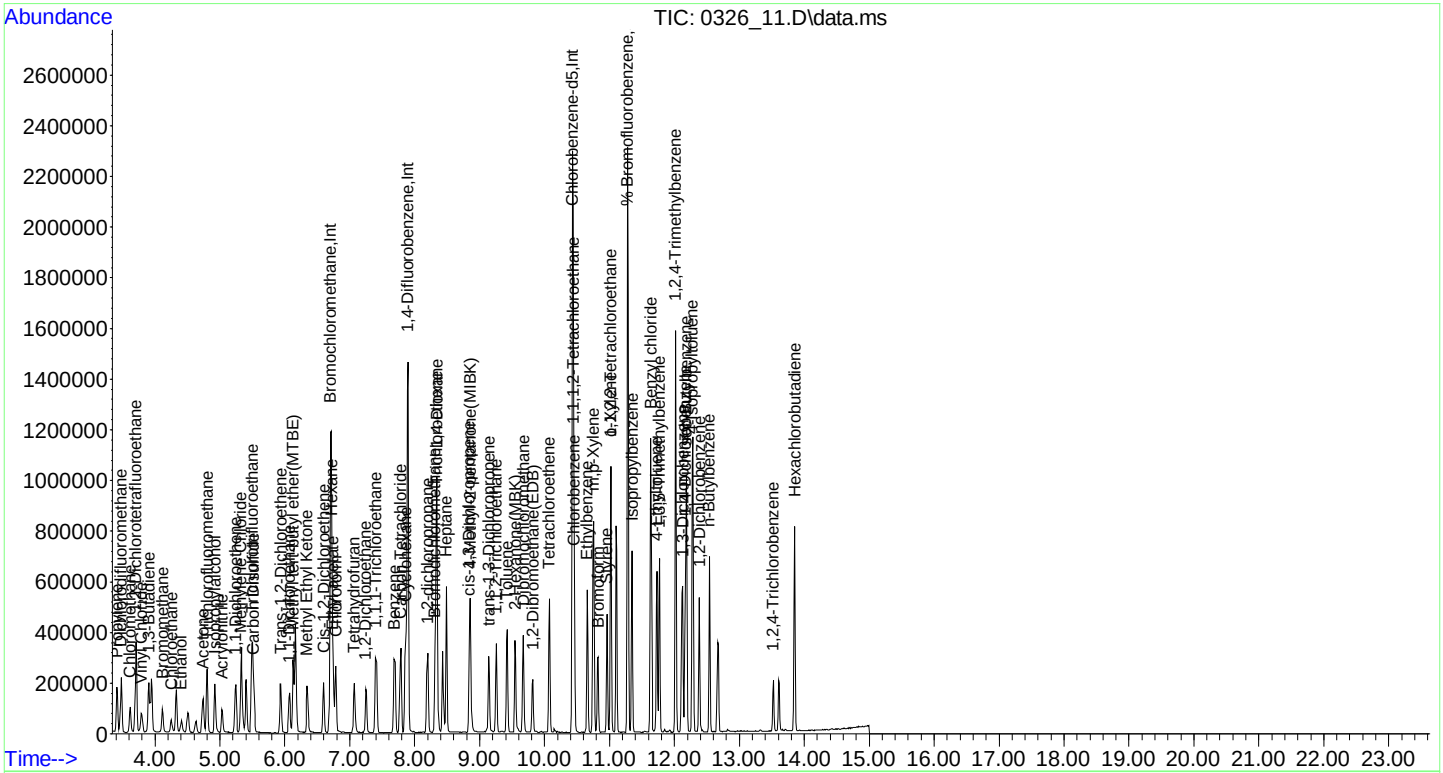
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

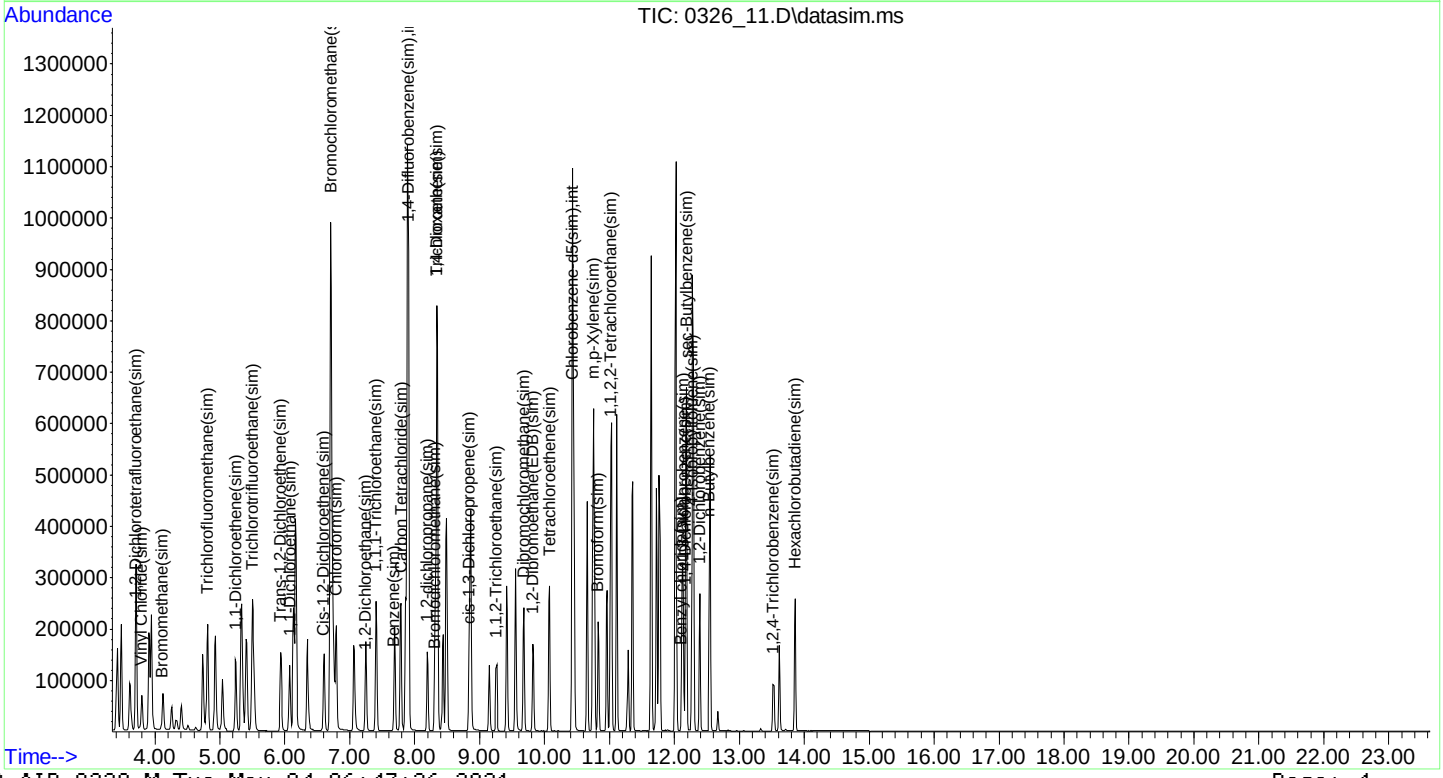
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM20\03MAR\26\
Data File : 0326_11.D
Acq On : 26 Mar 2021 11:32 pm
Operator :
Client ID : ICAL 2.5
Lab ID : 2.5
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 29 08:29:19 2021
Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0329.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Mar 29 08:29:06 2021
Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM20\03MAR\26\
Data File : 0326_12.D
Acq On : 27 Mar 2021 12:08 am
Operator :
Client ID : ICAL 5
Lab ID : 5.0
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 29 08:29:56 2021
Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0329.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Mar 29 08:29:30 2021
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Bromochloromethane | 6.704 | 130 | 250524 | 10.000 | ng | 0.00 |
| 37) 1,4-Difluorobenzene | 7.900 | 114 | 955121 | 10.000 | ng | 0.00 |
| 54) Chlorobenzene-d5 | 10.430 | 82 | 511361 | 10.000 | ng | 0.00 |
| 81) Bromochloromethane(sim) | 6.710 | 130 | 286703 | 10.000 | ng | # 0.00 |
| 96) 1,4-Difluorobenzene(sim) | 7.900 | 114 | 955121 | 10.000 | ng | 0.00 |
| 106) Chlorobenzene-d5(sim) | 10.430 | 82 | 511361 | 10.000 | ng | 0.00 |
| System Monitoring Compounds | | | | | | |
| 63) % Bromofluorobenzene | 11.281 | 95 | 615593 | 9.969 | ppbv | 0.00 |
| Spiked Amount 10.000 | Range 70 - 130 | | Recovery = | 99.70% | | |
| Target Compounds | | | | | | Qvalue |
| 2) Propylene | 3.413 | 41 | 235824 | 5.346 | ppbv | 98 |
| 3) Dichlorodifluoromethane | 3.478 | 85 | 417132 | 5.531 | ppbv | 100 |
| 4) Chloromethane | 3.618 | 50 | 247691 | 5.267 | ppbv | 97 |
| 5) 1,2-Dichlorotetrafluor... | 3.704 | 85 | 376394 | 5.176 | ppbv | 99 |
| 6) Vinyl Chloride | 3.791 | 62 | 169912 | 5.075 | ppbv | 97 |
| 7) 1,3-Butadiene | 3.909 | 54 | 174945 | 5.098 | ppbv | 98 |
| 8) Bromomethane | 4.114 | 94 | 120795 | 5.056 | ppbv | 97 |
| 9) Chloroethane | 4.254 | 64 | 80974 | 5.325 | ppbv | 97 |
| 11) Ethanol | 4.394 | 45 | 108153 | 5.116 | ppbv | 96 |
| 12) Acetone | 4.728 | 43 | 409580 | 5.300 | ppbv | 100 |
| 13) Trichlorofluoromethane | 4.804 | 101 | 409882 | 5.229 | ppbv | 99 |
| 14) Isopropylalcohol | 4.912 | 45 | 512620 | 5.413 | ppbv | 98 |
| 15) Acrylonitrile | 5.030 | 53 | 167109 | 5.348 | ppbv | 98 |
| 16) 1,1-Dichloroethene | 5.243 | 61 | 294571 | 5.236 | ppbv | 99 |
| 17) Methylene Chloride | 5.321 | 49 | 314408 | 5.313 | ppbv | 99 |
| 20) Carbon Disulfide | 5.528 | 76 | 357617 | 5.212 | ppbv | 100 |
| 21) Trichlorotrifluoroethane | 5.493 | 101 | 287603 | 5.279 | ppbv | 98 |
| 22) Trans-1,2-Dichloroethene | 5.939 | 61 | 265394 | 5.198 | ppbv | 99 |
| 23) 1,1-Dichloroethane | 6.073 | 63 | 295069 | 5.122 | ppbv | 97 |
| 24) Methyl tert-butyl ethe... | 6.120 | 73 | 400388 | 5.264 | ppbv | 95 |
| 26) Methyl Ethyl Ketone | 6.333 | 43 | 535098 | 5.053 | ppbv | 99 |
| 27) Cis-1,2-Dichloroethene | 6.600 | 61 | 248912 | 5.150 | ppbv | 99 |
| 28) Hexane | 6.725 | 57 | 312059 | 5.320 | ppbv | 99 |
| 29) Chloroform | 6.787 | 83 | 318926 | 5.242 | ppbv | 99 |
| 30) Ethyl acetate | 6.735 | 61 | 57278 | 5.209 | ppbv | 95 |
| 31) Tetrahydrofuran | 7.058 | 42 | 307523 | 5.355 | ppbv | 99 |
| 32) 1,2-Dichloroethane | 7.246 | 62 | 286758 | 5.317 | ppbv | 98 |
| 33) 1,1,1-Trichloroethane | 7.402 | 97 | 361926 | 5.259 | ppbv | 97 |
| 34) Benzene | 7.688 | 78 | 384481 | 5.265 | ppbv | 99 |
| 35) Carbon Tetrachloride | 7.788 | 117 | 375641 | 5.156 | ppbv | 94 |
| 36) Cyclohexane | 7.866 | 41 | 245796 | 5.356 | ppbv | 99 |
| 38) 1,2-dichloropropane | 8.201 | 63 | 190580 | 5.272 | ppbv | 97 |
| 39) Bromodichloromethane | 8.312 | 83 | 349959 | 5.304 | ppbv | 99 |
| 40) Trichloroethene | 8.334 | 130 | 193345 | 5.272 | ppbv | 96 |
| 42) 1,4-Dioxane | 8.334 | 88 | 92928 | 5.489 | ppbv | 94 |
| 44) Heptane | 8.490 | 43 | 513223 | 5.379 | ppbv | 99 |
| 45) cis-1,3-Dichloropropene | 8.846 | 75 | 245348 | 5.407 | ppbv | 99 |
| 46) 4-Methyl-2-pentanone(M... | 8.858 | 43 | 660886 | 5.548 | ppbv | 98 |
| 47) trans-1,3-Dichloropropene | 9.143 | 75 | 268155 | 5.122 | ppbv | 100 |
| 48) 1,1,2-Trichloroethane | 9.259 | 97 | 177332 | 5.333 | ppbv | 98 |
| 49) Toluene | 9.415 | 91 | 489219 | 5.366 | ppbv | 98 |
| 50) Dibromochloromethane | 9.677 | 129 | 336828 | 5.272 | ppbv | 97 |
| 51) 2-Hexanone(MBK) | 9.551 | 43 | 579397 | 5.627 | ppbv | 97 |
| 52) 1,2-Dibromoethane(EDB) | 9.813 | 107 | 273307 | 5.324 | ppbv | 98 |

Data Path : H:\AIR2021\CHEM20\03MAR\26\
Data File : 0326_12.D
Acq On : 27 Mar 2021 12:08 am
Operator :
Client ID : ICAL 5
Lab ID : 5.0
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 29 08:29:56 2021
Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0329.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Mar 29 08:29:30 2021
Response via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 53) | Tetrachloroethene | 10.075 | 166 | 233495 | 5.101 | ppbv | 99 |
| 55) | 1,1,1,2-Tetrachloroethane | 10.440 | 131 | 244973 | 5.317 | ppbv | 95 |
| 56) | Chlorobenzene | 10.461 | 112 | 388179 | 5.134 | ppbv | 98 |
| 57) | Ethylbenzene | 10.655 | 91 | 654403 | 5.340 | ppbv | 99 |
| 58) | m,p-Xylene | 10.758 | 91 | 1040682 | 11.168 | ppbv | 100 |
| 59) | Bromoform | 10.819 | 173 | 275559 | 5.327 | ppbv | 99 |
| 60) | Styrene | 10.963 | 104 | 362409 | 5.680 | ppbv | 99 |
| 61) | 1,1,2,2-Tetrachloroethane | 11.014 | 83 | 362829 | 5.337 | ppbv | 98 |
| 62) | o-Xylene | 11.024 | 91 | 534440 | 5.360 | ppbv | 99 |
| 65) | Isopropylbenzene | 11.352 | 105 | 744878 | 5.347 | ppbv | 98 |
| 67) | 4-Ethyltoluene | 11.722 | 105 | 725155 | 5.299 | ppbv | 99 |
| 68) | 1,3,5-Trimethylbenzene | 11.763 | 105 | 651985 | 5.723 | ppbv | 99 |
| 69) | 1,2,4-Trimethylbenzene | 12.019 | 105 | 634396 | 5.457 | ppbv | 99 |
| 71) | Benzyl chloride | 11.639 | 91 | 1384645 | 5.443 | ppbv | 99 |
| 72) | 1,3-Dichlorobenzene | 12.132 | 146 | 344184 | 5.446 | ppbv | 99 |
| 73) | 1,4-Dichlorobenzene | 12.173 | 146 | 289057 | 5.358 | ppbv | 98 |
| 74) | sec-Butylbenzene | 12.183 | 105 | 916450 | 5.376 | ppbv | 100 |
| 75) | 4-Isopropyltoluene | 12.276 | 119 | 893076 | 5.423 | ppbv | 99 |
| 76) | 1,2-Dichlorobenzene | 12.389 | 146 | 330771 | 5.453 | ppbv | 99 |
| 77) | n-Butylbenzene | 12.542 | 91 | 636568 | 5.580 | ppbv | 99 |
| 78) | 1,2,4-Trichlorobenzene | 13.517 | 180 | 106871 | 5.283 | ppbv | 97 |
| 80) | Hexachlorobutadiene | 13.856 | 225 | 212547 | 5.104 | ppbv | 99 |
| 82] | 1,2-Dichlorotetrafluor... | 3.704 | 85 | 376056 | 4.766 | ppbv | 99 |
| 83] | Vinyl Chloride(sim) | 3.796 | 62 | 186579 | 4.956 | ppbv | 100 |
| 84] | Bromomethane(sim) | 4.114 | 94 | 120795 | 4.561 | ppbv | 97 |
| 85] | Trichlorofluoromethane... | 4.809 | 101 | 443269 | 4.968 | ppbv# | 100 |
| 86] | 1,2-Dichloroethane(sim) | 7.246 | 62 | 286758 | 5.022 | ppbv | 98 |
| 87] | 1,1,1-Trichloroethane(... | 7.408 | 97 | 388009 | 5.100 | ppbv# | 100 |
| 88] | Benzene(sim) | 7.688 | 78 | 384481 | 5.167 | ppbv | 99 |
| 89] | Carbon Tetrachloride(sim) | 7.783 | 117 | 413053 | 5.138 | ppbv | 100 |
| 90] | 1,1-Dichloroethene(sim) | 5.243 | 61 | 294571 | 4.921 | ppbv | 99 |
| 91] | Trichlorotrifluoroetha... | 5.499 | 101 | 310505 | 4.915 | ppbv# | 100 |
| 92] | Trans-1,2-Dichloroethe... | 5.939 | 61 | 265394 | 5.033 | ppbv | 99 |
| 93] | 1,1-Dichloroethane(sim) | 6.078 | 63 | 330851 | 4.998 | ppbv | 100 |
| 94] | Cis-1,2-Dichloroethene... | 6.600 | 61 | 248912 | 5.004 | ppbv | 99 |
| 95] | Chloroform(sim) | 6.793 | 83 | 337407 | 5.034 | ppbv | 99 |
| 97] | 1,2-dichloropropane(sim) | 8.195 | 63 | 206863 | 5.015 | ppbv | 98 |
| 98] | Bromodichloromethane(sim) | 8.312 | 83 | 349959 | 5.304 | ppbv | 99 |
| 99] | Trichloroethene(sim) | 8.340 | 130 | 221726 | 5.099 | ppbv | 100 |
| 100] | 1,4-Dioxane(sim) | 8.334 | 88 | 92928 | 5.406 | ppbv | 94 |
| 101] | cis-1,3-Dichloropropen... | 8.841 | 75 | 271112 | 5.340 | ppbv | 99 |
| 102] | 1,1,2-Trichloroethane(... | 9.259 | 97 | 177220 | 5.084 | ppbv | 98 |
| 103] | Dibromochloromethane(sim) | 9.682 | 129 | 380132 | 5.636 | ppbv | 100 |
| 104] | 1,2-Dibromoethane(EDB)... | 9.813 | 107 | 273307 | 5.585 | ppbv | 97 |
| 105] | Tetrachloroethene(sim) | 10.070 | 166 | 278787 | 5.115 | ppbv | 100 |
| 107] | Bromoform(sim) | 10.825 | 173 | 319661 | 5.556 | ppbv | 100 |
| 108] | m,p-Xylene(sim) | 10.758 | 91 | 1042613 | 10.384 | ppbv | 99 |
| 109] | 1,1,2,2-Tetrachloroeth... | 11.020 | 83 | 390651 | 5.117 | ppbv | 100 |
| 112] | Benzyl chloride(sim) | 12.111 | 91 | 396868 | 6.672 | ppbv | 99 |
| 113] | 1,3-Dichlorobenzene(sim) | 12.127 | 146 | 385020 | 5.775 | ppbv | 95 |
| 114] | 1,4-Dichlorobenzene(sim) | 12.173 | 146 | 288660 | 5.783 | ppbv | 98 |
| 115] | sec-Butylbenzene(sim) | 12.189 | 105 | 1026723 | 5.395 | ppbv | 100 |
| 116] | 4-Isopropyltoluene(sim) | 12.276 | 119 | 894184 | 5.292 | ppbv | 99 |
| 117] | 1,2-Dichlorobenzene(sim) | 12.394 | 146 | 378990 | 5.550 | ppbv | 99 |
| 118] | n-Butylbenzene(sim) | 12.542 | 91 | 636568 | 6.324 | ppbv | 99 |
| 119] | 1,2,4-Trichlorobenzene... | 13.523 | 180 | 126201 | 6.015 | ppbv | 100 |
| 121] | Hexachlorobutadiene(sim) | 13.851 | 225 | 265546 | 4.139 | ppbv | 100 |

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM20\03MAR\26\
Data File : 0326_12.D
Acq On : 27 Mar 2021 12:08 am
Operator :
Client ID : ICAL 5
Lab ID : 5.0
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 29 08:29:56 2021
Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0329.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Mar 29 08:29:30 2021
Response via : Initial Calibration

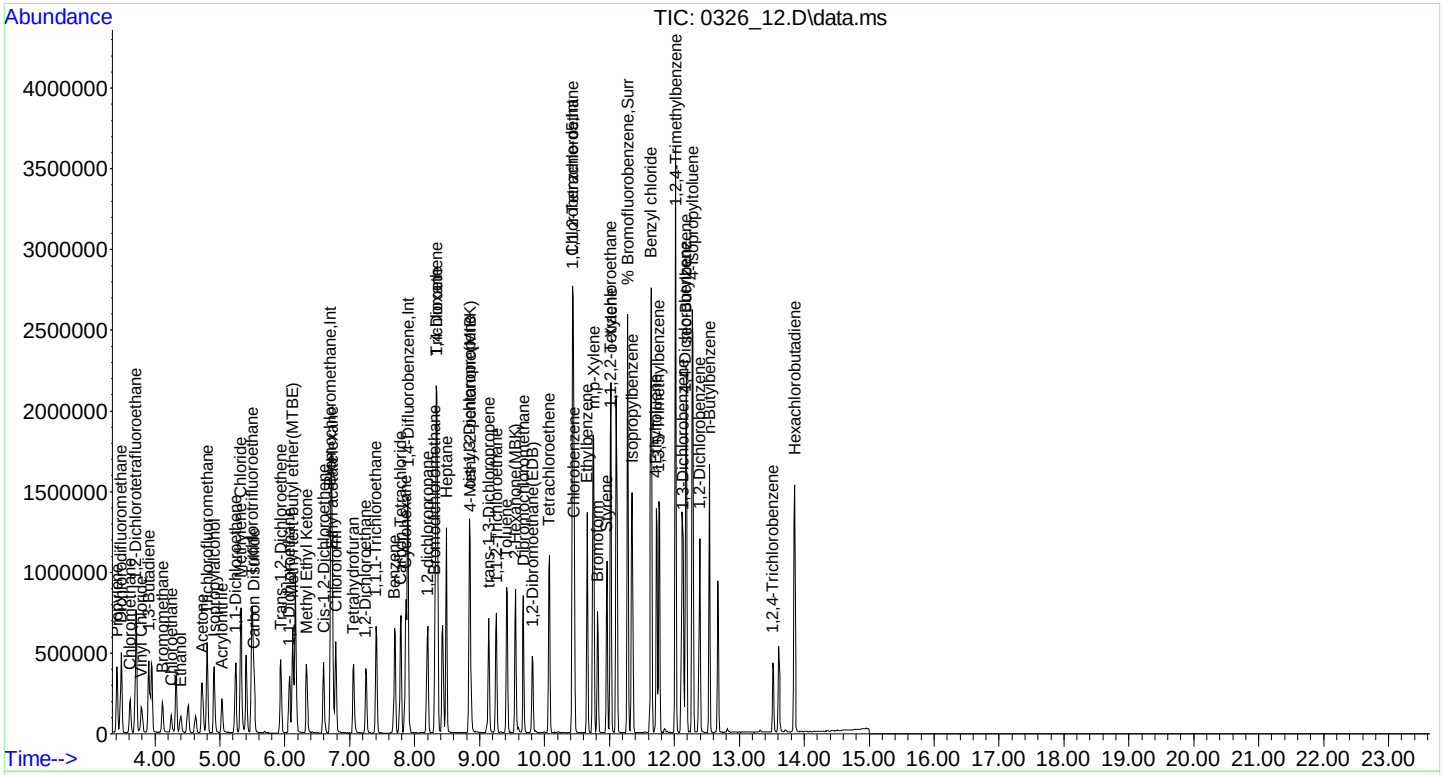
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

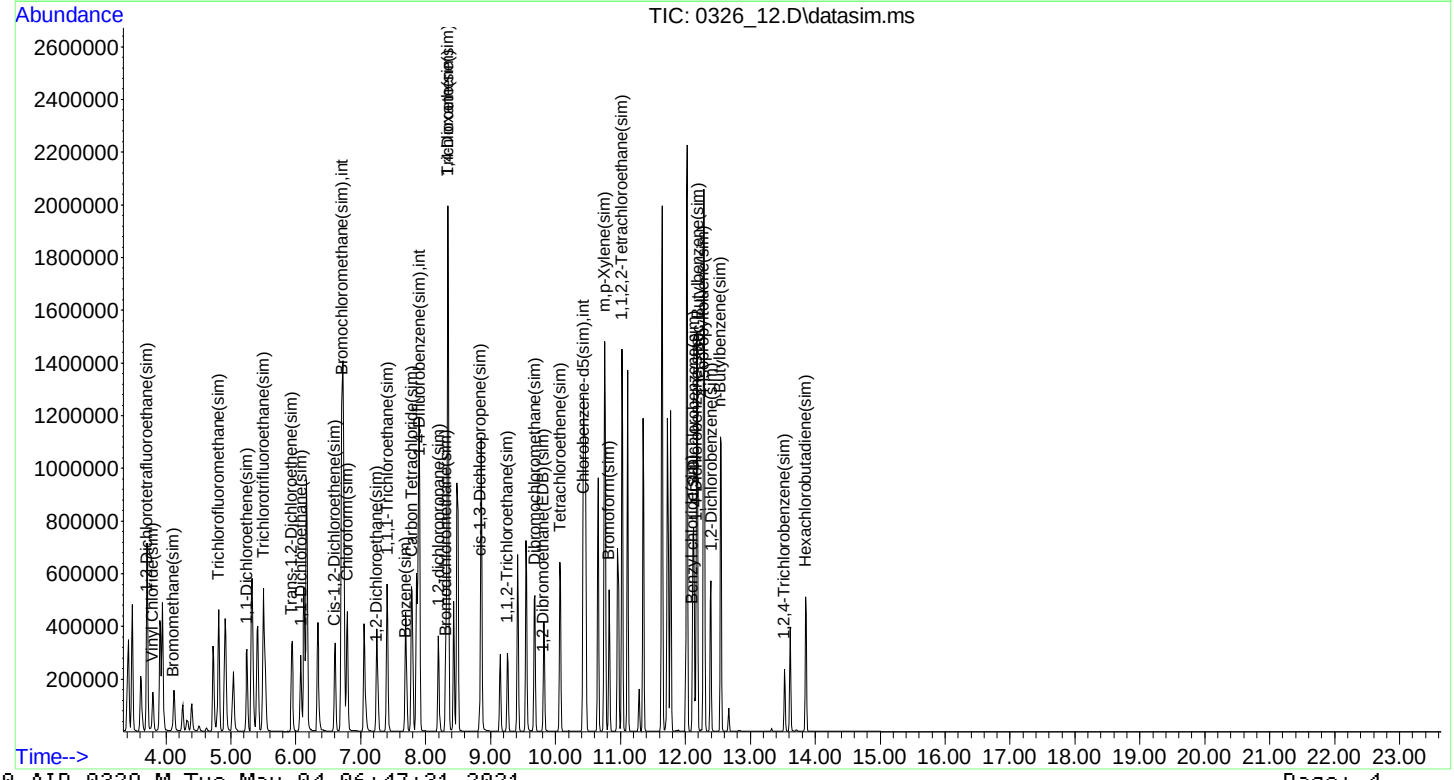
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM20\03MAR\26\
Data File : 0326_12.D
Acq On : 27 Mar 2021 12:08 am
Operator :
Client ID : ICAL 5
Lab ID : 5.0
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 29 08:29:56 2021
Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0329.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Mar 29 08:29:30 2021
Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM20\03MAR\26\
Data File : 0326_13.D
Acq On : 27 Mar 2021 12:46 am
Operator :
Client ID : ICAL 25
Lab ID : 25
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Mar 29 08:30:30 2021
Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0329.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Mar 29 08:30:13 2021
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Bromochloromethane | 6.714 | 130 | 261269 | 10.000 | ng | | 0.01 |
| 37) 1,4-Difluorobenzene | 7.900 | 114 | 1015602 | 10.000 | ng | | 0.00 |
| 54) Chlorobenzene-d5 | 10.430 | 82 | 633388 | 10.000 | ng | | 0.00 |
| 81) Bromochloromethane(sim) | 6.720 | 130 | 297300 | 10.000 | ng | # | 0.01 |
| 96) 1,4-Difluorobenzene(sim) | 7.900 | 114 | 1015602 | 10.000 | ng | | 0.00 |
| 106) Chlorobenzene-d5(sim) | 10.430 | 82 | 633388 | 10.000 | ng | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 63) % Bromofluorobenzene | 11.281 | 95 | 720213 | 9.426 | ppbv | | 0.00 |
| Spiked Amount 10.000 | Range 70 - 130 | | Recovery = | 94.30% | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) Propylene | 3.392 | 41 | 1093877 | 23.778 | ppbv | | 98 |
| 3) Dichlorodifluoromethane | 3.456 | 85 | 1908678 | 24.269 | ppbv | | 100 |
| 4) Chloromethane | 3.597 | 50 | 1178861 | 24.036 | ppbv | | 100 |
| 5) 1,2-Dichlorotetrafluor... | 3.694 | 85 | 1855101 | 24.460 | ppbv | | 100 |
| 6) Vinyl Chloride | 3.780 | 62 | 850405 | 24.354 | ppbv | | 98 |
| 7) 1,3-Butadiene | 3.898 | 54 | 900901 | 25.172 | ppbv | | 97 |
| 8) Bromomethane | 4.103 | 94 | 604142 | 24.245 | ppbv | | 97 |
| 9) Chloroethane | 4.243 | 64 | 392582 | 24.757 | ppbv | | 99 |
| 11) Ethanol | 4.394 | 45 | 501491 | 22.745 | ppbv | | 97 |
| 12) Acetone | 4.707 | 43 | 1952075 | 24.222 | ppbv | | 99 |
| 13) Trichlorofluoromethane | 4.804 | 101 | 2005302 | 24.529 | ppbv | | 99 |
| 14) Isopropylalcohol | 4.901 | 45 | 2377364 | 24.073 | ppbv | | 99 |
| 15) Acrylonitrile | 5.030 | 53 | 815586 | 25.030 | ppbv | | 96 |
| 16) 1,1-Dichloroethene | 5.243 | 61 | 1493676 | 25.460 | ppbv | | 98 |
| 17) Methylene Chloride | 5.321 | 49 | 1518661 | 24.610 | ppbv | | 100 |
| 20) Carbon Disulfide | 5.528 | 76 | 1792688 | 25.053 | ppbv | | 99 |
| 21) Trichlorotrifluoroethane | 5.493 | 101 | 1418099 | 24.959 | ppbv | | 98 |
| 22) Trans-1,2-Dichloroethene | 5.939 | 61 | 1345974 | 25.277 | ppbv | | 100 |
| 23) 1,1-Dichloroethane | 6.073 | 63 | 1485818 | 24.733 | ppbv | | 98 |
| 24) Methyl tert-butyl ethe... | 6.112 | 73 | 1999939 | 25.212 | ppbv | | 96 |
| 26) Methyl Ethyl Ketone | 6.333 | 43 | 3164959 | 28.656 | ppbv | | 97 |
| 27) Cis-1,2-Dichloroethene | 6.600 | 61 | 1290617 | 25.604 | ppbv | | 100 |
| 28) Hexane | 6.714 | 57 | 1567331 | 25.623 | ppbv | | 97 |
| 29) Chloroform | 6.798 | 83 | 1586196 | 24.998 | ppbv | | 99 |
| 30) Ethyl acetate | 6.735 | 61 | 284873 | 24.843 | ppbv | | 97 |
| 31) Tetrahydrofuran | 7.048 | 42 | 1582958 | 26.429 | ppbv | | 99 |
| 32) 1,2-Dichloroethane | 7.256 | 62 | 1425936 | 25.354 | ppbv | | 98 |
| 33) 1,1,1-Trichloroethane | 7.412 | 97 | 1808505 | 25.196 | ppbv | | 99 |
| 34) Benzene | 7.699 | 78 | 1954184 | 25.662 | ppbv | | 97 |
| 35) Carbon Tetrachloride | 7.788 | 117 | 1936067 | 25.482 | ppbv | | 99 |
| 36) Cyclohexane | 7.866 | 41 | 1225064 | 25.598 | ppbv | | 98 |
| 38) 1,2-dichloropropane | 8.201 | 63 | 963201 | 25.060 | ppbv | | 99 |
| 39) Bromodichloromethane | 8.323 | 83 | 1859116 | 26.499 | ppbv | | 99 |
| 40) Trichloroethene | 8.334 | 130 | 982157 | 25.184 | ppbv | | 99 |
| 42) 1,4-Dioxane | 8.334 | 88 | 460192 | 25.562 | ppbv | | 96 |
| 44) Heptane | 8.490 | 43 | 2625511 | 25.877 | ppbv | | 99 |
| 45) cis-1,3-Dichloropropene | 8.847 | 75 | 1302137 | 26.990 | ppbv | | 99 |
| 46) 4-Methyl-2-pentanone(M... | 8.847 | 43 | 3429146 | 27.075 | ppbv | | 99 |
| 47) trans-1,3-Dichloropropene | 9.143 | 75 | 1435341 | 25.785 | ppbv | | 99 |
| 48) 1,1,2-Trichloroethane | 9.259 | 97 | 905099 | 25.597 | ppbv | | 97 |
| 49) Toluene | 9.424 | 91 | 2544302 | 26.246 | ppbv | | 98 |
| 50) Dibromochloromethane | 9.677 | 129 | 1859906 | 27.378 | ppbv | | 99 |
| 51) 2-Hexanone(MBK) | 9.541 | 43 | 3229587 | 29.496 | ppbv | | 100 |
| 52) 1,2-Dibromoethane(EDB) | 9.822 | 107 | 1478847 | 27.091 | ppbv | | 99 |

Data Path : H:\AIR2021\CHEM20\03MAR\26\
Data File : 0326_13.D
Acq On : 27 Mar 2021 12:46 am
Operator :
Client ID : ICAL 25
Lab ID : 25
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Mar 29 08:30:30 2021
Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0329.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Mar 29 08:30:13 2021
Response via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 53) | Tetrachloroethene | 10.075 | 166 | 1225145 | 25.172 | ppbv | 99 |
| 55) | 1,1,1,2-Tetrachloroethane | 10.450 | 131 | 1288857 | 22.586 | ppbv | 97 |
| 56) | Chlorobenzene | 10.461 | 112 | 2134241 | 22.791 | ppbv | 96 |
| 57) | Ethylbenzene | 10.655 | 91 | 3556407 | 23.428 | ppbv | 99 |
| 58) | m,p-Xylene | 10.758 | 91 | 5621362 | 48.704 | ppbv | 99 |
| 59) | Bromoform | 10.830 | 173 | 1611083 | 25.145 | ppbv | 99 |
| 60) | Styrene | 10.963 | 104 | 2062902 | 26.103 | ppbv | 99 |
| 61) | 1,1,2,2-Tetrachloroethane | 11.024 | 83 | 2015551 | 23.935 | ppbv | 98 |
| 62) | o-Xylene | 11.024 | 91 | 2940234 | 23.807 | ppbv | 98 |
| 65) | Isopropylbenzene | 11.352 | 105 | 4061906 | 23.541 | ppbv | 99 |
| 67) | 4-Ethyltoluene | 11.732 | 105 | 4280073 | 25.249 | ppbv | 100 |
| 68) | 1,3,5-Trimethylbenzene | 11.773 | 105 | 3336022 | 23.643 | ppbv | 100 |
| 69) | 1,2,4-Trimethylbenzene | 12.019 | 105 | 3576795 | 24.840 | ppbv | 99 |
| 71) | Benzyl chloride | 11.639 | 91 | 7573876 | 24.038 | ppbv | 99 |
| 72) | 1,3-Dichlorobenzene | 12.132 | 146 | 2042093 | 26.085 | ppbv | 99 |
| 73) | 1,4-Dichlorobenzene | 12.173 | 146 | 1817764 | 27.203 | ppbv | 99 |
| 74) | sec-Butylbenzene | 12.183 | 105 | 5091749 | 24.114 | ppbv | 99 |
| 75) | 4-Isopropyltoluene | 12.276 | 119 | 5051685 | 24.765 | ppbv | 100 |
| 76) | 1,2-Dichlorobenzene | 12.389 | 146 | 1919865 | 25.554 | ppbv | 99 |
| 77) | n-Butylbenzene | 12.542 | 91 | 3859083 | 27.312 | ppbv | 99 |
| 78) | 1,2,4-Trichlorobenzene | 13.528 | 180 | 773755 | 30.883 | ppbv | 97 |
| 80) | Hexachlorobutadiene | 13.856 | 225 | 1083248 | 21.002 | ppbv | 99 |
| 82] | 1,2-Dichlorotetrafluor... | 3.694 | 85 | 1854309 | 22.664 | ppbv | 100 |
| 83] | Vinyl Chloride(sim) | 3.785 | 62 | 940144 | 24.082 | ppbv | 100 |
| 84] | Bromomethane(sim) | 4.103 | 94 | 604142 | 21.998 | ppbv | 97 |
| 85] | Trichlorofluoromethane... | 4.799 | 101 | 2151412 | 23.255 | ppbv# | 100 |
| 86] | 1,2-Dichloroethane(sim) | 7.256 | 62 | 1425936 | 24.083 | ppbv | 98 |
| 87] | 1,1,1-Trichloroethane(... | 7.418 | 97 | 1962942 | 24.882 | ppbv# | 99 |
| 88] | Benzene(sim) | 7.699 | 78 | 1954756 | 25.335 | ppbv | 97 |
| 89] | Carbon Tetrachloride(sim) | 7.794 | 117 | 2110631 | 25.317 | ppbv | 100 |
| 90] | 1,1-Dichloroethene(sim) | 5.243 | 61 | 1493676 | 24.064 | ppbv | 98 |
| 91] | Trichlorotrifluoroetha... | 5.499 | 101 | 1536527 | 23.453 | ppbv# | 100 |
| 92] | Trans-1,2-Dichloroethe... | 5.939 | 61 | 1345974 | 24.617 | ppbv | 100 |
| 93] | 1,1-Dichloroethane(sim) | 6.078 | 63 | 1635836 | 23.831 | ppbv | 100 |
| 94] | Cis-1,2-Dichloroethene... | 6.600 | 61 | 1290617 | 25.023 | ppbv | 100 |
| 95] | Chloroform(sim) | 6.793 | 83 | 1705230 | 24.534 | ppbv | 99 |
| 97] | 1,2-dichloropropane(sim) | 8.195 | 63 | 1063960 | 24.258 | ppbv | 98 |
| 98] | Bromodichloromethane(sim) | 8.323 | 83 | 1859116 | 26.500 | ppbv | 99 |
| 99] | Trichloroethene(sim) | 8.340 | 130 | 1116789 | 24.152 | ppbv | 99 |
| 100] | 1,4-Dioxane(sim) | 8.334 | 88 | 460192 | 25.177 | ppbv | 95 |
| 101] | cis-1,3-Dichloropropen... | 8.841 | 75 | 1445642 | 26.780 | ppbv | 99 |
| 102] | 1,1,2-Trichloroethane(... | 9.259 | 97 | 905099 | 24.417 | ppbv | 97 |
| 103] | Dibromochloromethane(sim) | 9.682 | 129 | 2089515 | 29.133 | ppbv | 100 |
| 104] | 1,2-Dibromoethane(EDB)... | 9.822 | 107 | 1478847 | 28.419 | ppbv | 99 |
| 105] | Tetrachloroethene(sim) | 10.080 | 166 | 1459351 | 25.179 | ppbv | 100 |
| 107] | Bromoform(sim) | 10.825 | 173 | 1848168 | 25.935 | ppbv | 100 |
| 108] | m,p-Xylene(sim) | 10.758 | 91 | 5625565 | 45.234 | ppbv | 99 |
| 109] | 1,1,2,2-Tetrachloroeth... | 11.020 | 83 | 2149222 | 22.727 | ppbv | 100 |
| 112] | Benzyl chloride(sim) | 12.111 | 91 | 2791105 | 37.882 | ppbv | 98 |
| 113] | 1,3-Dichlorobenzene(sim) | 12.138 | 146 | 2425026 | 29.365 | ppbv | 94 |
| 114] | 1,4-Dichlorobenzene(sim) | 12.173 | 146 | 1817764 | 29.399 | ppbv | 99 |
| 115] | sec-Butylbenzene(sim) | 12.189 | 105 | 5578220 | 23.664 | ppbv | 100 |
| 116] | 4-Isopropyltoluene(sim) | 12.276 | 119 | 5051548 | 24.139 | ppbv | 100 |
| 117] | 1,2-Dichlorobenzene(sim) | 12.394 | 146 | 2229177 | 26.354 | ppbv | 100 |
| 118] | n-Butylbenzene(sim) | 12.542 | 91 | 3859083 | 30.951 | ppbv | 99 |
| 119] | 1,2,4-Trichlorobenzene... | 13.523 | 180 | 925920 | 35.631 | ppbv | 100 |
| 121] | Hexachlorobutadiene(sim) | 13.851 | 225 | 1355249 | 17.052 | ppbv | 100 |

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM20\03MAR\26\
Data File : 0326_13.D
Acq On : 27 Mar 2021 12:46 am
Operator :
Client ID : ICAL 25
Lab ID : 25
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Mar 29 08:30:30 2021
Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0329.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Mar 29 08:30:13 2021
Response via : Initial Calibration

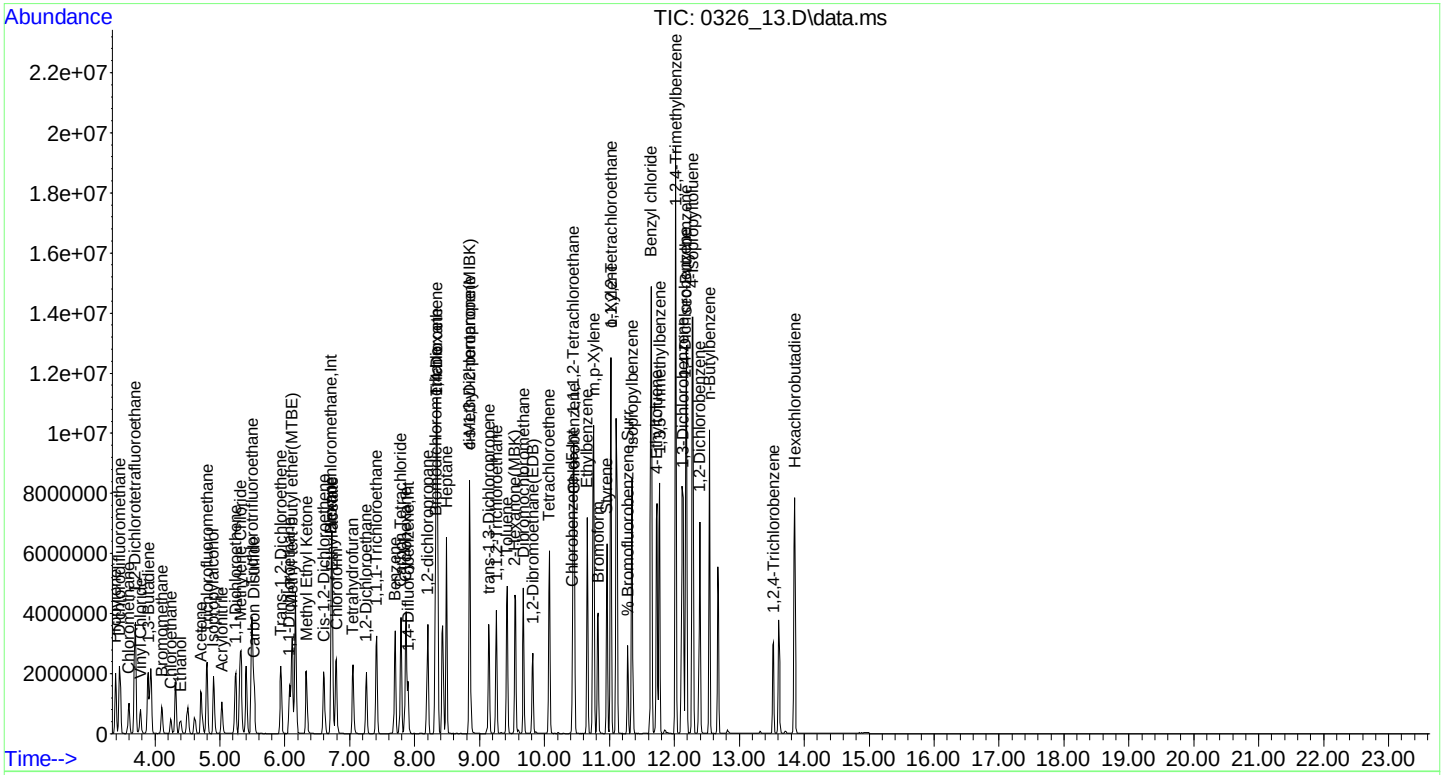
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

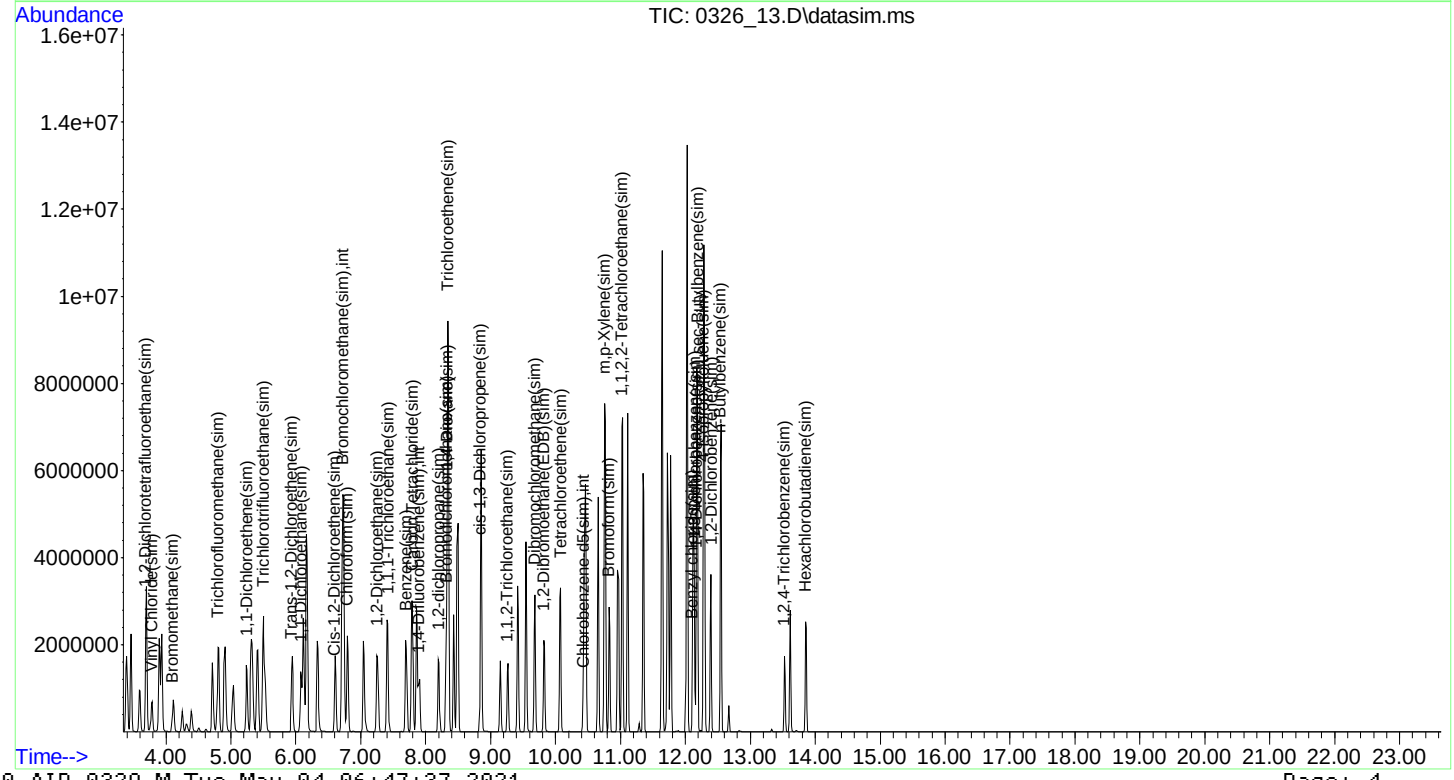
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM20\03MAR\26\
Data File : 0326_13.D
Acq On : 27 Mar 2021 12:46 am
Operator :
Client ID : ICAL 25
Lab ID : 25
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Mar 29 08:30:30 2021
Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0329.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Mar 29 08:30:13 2021
Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM20\03MAR\26\
Data File : 0326_14.D
Acq On : 27 Mar 2021 1:25 am
Operator :
Client ID : ICAL 40
Lab ID : 40
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Mar 29 08:30:55 2021
Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0329.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Mar 29 08:30:43 2021
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Bromochloromethane | 6.725 | 130 | 281908 | 10.000 | ng | | 0.01 |
| 37) 1,4-Difluorobenzene | 7.900 | 114 | 1091392 | 10.000 | ng | | 0.00 |
| 54) Chlorobenzene-d5 | 10.440 | 82 | 740303 | 10.000 | ng | | 0.01 |
| 81) Bromochloromethane(sim) | 6.730 | 130 | 317738 | 10.000 | ng | # | 0.01 |
| 96) 1,4-Difluorobenzene(sim) | 7.900 | 114 | 1091392 | 10.000 | ng | | 0.00 |
| 106) Chlorobenzene-d5(sim) | 10.440 | 82 | 740445 | 10.000 | ng | | 0.01 |
| System Monitoring Compounds | | | | | | | |
| 63) % Bromofluorobenzene | 11.281 | 95 | 788094 | 8.953 | ppbv | | 0.00 |
| Spiked Amount 10.000 | Range 70 - 130 | | Recovery = | 89.50% | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) Propylene | 3.424 | 41 | 1949527 | 39.276 | ppbv | | 98 |
| 3) Dichlorodifluoromethane | 3.489 | 85 | 2684499 | 31.634 | ppbv | | 99 |
| 4) Chloromethane | 3.618 | 50 | 1965708 | 37.145 | ppbv | | 99 |
| 5) 1,2-Dichlorotetrafluor... | 3.715 | 85 | 3146388 | 38.449 | ppbv | | 100 |
| 6) Vinyl Chloride | 3.801 | 62 | 1527211 | 40.534 | ppbv | | 99 |
| 7) 1,3-Butadiene | 3.920 | 54 | 1554760 | 40.261 | ppbv | | 99 |
| 8) Bromomethane | 4.136 | 94 | 1068112 | 39.726 | ppbv | | 97 |
| 9) Chloroethane | 4.276 | 64 | 692180 | 40.454 | ppbv | | 97 |
| 11) Ethanol | 4.405 | 45 | 858529 | 36.088 | ppbv | | 100 |
| 12) Acetone | 4.728 | 43 | 3279906 | 37.719 | ppbv | | 100 |
| 13) Trichlorofluoromethane | 4.825 | 101 | 3410185 | 38.660 | ppbv | | 99 |
| 14) Isopropylalcohol | 4.912 | 45 | 3904423 | 36.641 | ppbv | | 99 |
| 15) Acrylonitrile | 5.041 | 53 | 1387231 | 39.456 | ppbv | | 98 |
| 16) 1,1-Dichloroethene | 5.261 | 61 | 2556355 | 40.384 | ppbv | | 99 |
| 17) Methylene Chloride | 5.338 | 49 | 2503662 | 37.601 | ppbv | | 97 |
| 20) Carbon Disulfide | 5.545 | 76 | 3148369 | 40.777 | ppbv | | 99 |
| 21) Trichlorotrifluoroethane | 5.511 | 101 | 2455448 | 40.053 | ppbv | | 99 |
| 22) Trans-1,2-Dichloroethene | 5.954 | 61 | 2305510 | 40.127 | ppbv | | 99 |
| 23) 1,1-Dichloroethane | 6.088 | 63 | 2550183 | 39.342 | ppbv | | 100 |
| 24) Methyl tert-butyl ethe... | 6.120 | 73 | 3455191 | 40.368 | ppbv | | 97 |
| 26) Methyl Ethyl Ketone | 6.333 | 43 | 5254997 | 44.096 | ppbv | | 99 |
| 27) Cis-1,2-Dichloroethene | 6.610 | 61 | 2242932 | 41.239 | ppbv | | 99 |
| 28) Hexane | 6.725 | 57 | 2680166 | 40.608 | ppbv | | 96 |
| 29) Chloroform | 6.798 | 83 | 2768478 | 40.436 | ppbv | | 98 |
| 30) Ethyl acetate | 6.735 | 61 | 489810 | 39.588 | ppbv | | 99 |
| 31) Tetrahydrofuran | 7.048 | 42 | 2645958 | 40.942 | ppbv | | 98 |
| 32) 1,2-Dichloroethane | 7.267 | 62 | 2434463 | 40.117 | ppbv | | 98 |
| 33) 1,1,1-Trichloroethane | 7.412 | 97 | 3128296 | 40.392 | ppbv | | 99 |
| 34) Benzene | 7.699 | 78 | 3394312 | 41.310 | ppbv | | 97 |
| 35) Carbon Tetrachloride | 7.800 | 117 | 3366102 | 41.061 | ppbv | | 99 |
| 36) Cyclohexane | 7.866 | 41 | 2031686 | 39.345 | ppbv | | 98 |
| 38) 1,2-dichloropropane | 8.201 | 63 | 1670921 | 40.454 | ppbv | | 96 |
| 39) Bromodichloromethane | 8.323 | 83 | 3252644 | 43.143 | ppbv | | 98 |
| 40) Trichloroethene | 8.345 | 130 | 1700890 | 40.584 | ppbv | | 99 |
| 42) 1,4-Dioxane | 8.334 | 88 | 815180 | 42.136 | ppbv | | 97 |
| 44) Heptane | 8.490 | 43 | 4323262 | 39.652 | ppbv | | 98 |
| 45) cis-1,3-Dichloropropene | 8.847 | 75 | 2241445 | 43.233 | ppbv | | 99 |
| 46) 4-Methyl-2-pentanone(M... | 8.858 | 43 | 5757028 | 42.298 | ppbv | | 99 |
| 47) trans-1,3-Dichloropropene | 9.153 | 75 | 2530906 | 42.309 | ppbv | | 98 |
| 48) 1,1,2-Trichloroethane | 9.259 | 97 | 1585072 | 41.714 | ppbv | | 99 |
| 49) Toluene | 9.424 | 91 | 4418252 | 42.411 | ppbv | | 100 |
| 50) Dibromochloromethane | 9.677 | 129 | 3276890 | 44.886 | ppbv | | 100 |
| 51) 2-Hexanone(MBK) | 9.551 | 43 | 5488421 | 46.645 | ppbv | | 99 |
| 52) 1,2-Dibromoethane(EDB) | 9.822 | 107 | 2591661 | 44.180 | ppbv | | 100 |

Data Path : H:\AIR2021\CHEM20\03MAR\26\
Data File : 0326_14.D
Acq On : 27 Mar 2021 1:25 am
Operator :
Client ID : ICAL 40
Lab ID : 40
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Mar 29 08:30:55 2021
Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0329.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Mar 29 08:30:43 2021
Response via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 53) | Tetrachloroethene | 10.075 | 166 | 2155601 | 41.214 | ppbv | 99 |
| 55) | 1,1,1,2-Tetrachloroethane | 10.450 | 131 | 2237935 | 33.554 | ppbv | 99 |
| 56) | Chlorobenzene | 10.461 | 112 | 3739165 | 34.163 | ppbv | 100 |
| 57) | Ethylbenzene | 10.655 | 91 | 6238863 | 35.163 | ppbv | 99 |
| 58) | m,p-Xylene | 10.758 | 91 | 9732070 | 72.142 | ppbv | 99 |
| 59) | Bromoform | 10.830 | 173 | 2870260 | 38.328 | ppbv | 100 |
| 60) | Styrene | 10.963 | 104 | 3678544 | 39.824 | ppbv | 98 |
| 61) | 1,1,2,2-Tetrachloroethane | 11.024 | 83 | 3549580 | 36.065 | ppbv | 99 |
| 62) | o-Xylene | 11.024 | 91 | 5072987 | 35.144 | ppbv | 99 |
| 65) | Isopropylbenzene | 11.352 | 105 | 6946020 | 34.443 | ppbv | 100 |
| 67) | 4-Ethyltoluene | 11.732 | 105 | 7333706 | 37.015 | ppbv | 100 |
| 68) | 1,3,5-Trimethylbenzene | 11.773 | 105 | 5865133 | 35.564 | ppbv | 99 |
| 69) | 1,2,4-Trimethylbenzene | 12.019 | 105 | 6241634 | 37.086 | ppbv | 100 |
| 71) | Benzyl chloride | 11.639 | 91 | 14071709 | 38.210 | ppbv | 98 |
| 72) | 1,3-Dichlorobenzene | 12.132 | 146 | 3621567 | 39.580 | ppbv | 100 |
| 73) | 1,4-Dichlorobenzene | 12.173 | 146 | 3333103 | 42.676 | ppbv | 99 |
| 74) | sec-Butylbenzene | 12.183 | 105 | 8607909 | 34.879 | ppbv | 99 |
| 75) | 4-Isopropyltoluene | 12.276 | 119 | 8659120 | 36.319 | ppbv | 99 |
| 76) | 1,2-Dichlorobenzene | 12.389 | 146 | 3475574 | 39.581 | ppbv | 99 |
| 77) | n-Butylbenzene | 12.543 | 91 | 6743447 | 40.834 | ppbv | 99 |
| 78) | 1,2,4-Trichlorobenzene | 13.528 | 180 | 1488873 | 50.844 | ppbv | 99 |
| 80) | Hexachlorobutadiene | 13.856 | 225 | 1900452 | 31.525 | ppbv | 100 |
| 82] | 1,2-Dichlorotetrafluor... | 3.715 | 85 | 3140848 | 35.919 | ppbv | 100 |
| 83] | Vinyl Chloride(sim) | 3.807 | 62 | 1672282 | 40.080 | ppbv | 100 |
| 84] | Bromomethane(sim) | 4.136 | 94 | 1068112 | 36.391 | ppbv | 97 |
| 85] | Trichlorofluoromethane... | 4.831 | 101 | 3652483 | 36.940 | ppbv# | 100 |
| 86] | 1,2-Dichloroethane(sim) | 7.267 | 62 | 2434463 | 38.472 | ppbv | 98 |
| 87] | 1,1,1-Trichloroethane(... | 7.418 | 97 | 3368179 | 39.948 | ppbv# | 99 |
| 88] | Benzene(sim) | 7.699 | 78 | 3394312 | 41.163 | ppbv | 97 |
| 89] | Carbon Tetrachloride(sim) | 7.794 | 117 | 3615057 | 40.574 | ppbv | 100 |
| 90] | 1,1-Dichloroethene(sim) | 5.261 | 61 | 2556355 | 38.535 | ppbv | 99 |
| 91] | Trichlorotrifluoroetha... | 5.516 | 101 | 2639255 | 37.693 | ppbv# | 100 |
| 92] | Trans-1,2-Dichloroethe... | 5.954 | 61 | 2305510 | 39.453 | ppbv | 99 |
| 93] | 1,1-Dichloroethane(sim) | 6.094 | 63 | 2799260 | 38.157 | ppbv | 100 |
| 94] | Cis-1,2-Dichloroethene... | 6.610 | 61 | 2242932 | 40.689 | ppbv | 99 |
| 95] | Chloroform(sim) | 6.803 | 83 | 2944601 | 39.641 | ppbv | 99 |
| 97] | 1,2-dichloropropane(sim) | 8.206 | 63 | 1835488 | 38.943 | ppbv | 97 |
| 98] | Bromodichloromethane(sim) | 8.323 | 83 | 3252644 | 43.143 | ppbv | 98 |
| 99] | Trichloroethene(sim) | 8.351 | 130 | 1921350 | 38.666 | ppbv | 99 |
| 100] | 1,4-Dioxane(sim) | 8.334 | 88 | 815180 | 41.501 | ppbv | 97 |
| 101] | cis-1,3-Dichloropropen... | 8.852 | 75 | 2516621 | 43.382 | ppbv | 100 |
| 102] | 1,1,2-Trichloroethane(... | 9.259 | 97 | 1585072 | 39.792 | ppbv | 99 |
| 103] | Dibromochloromethane(sim) | 9.682 | 129 | 3669319 | 47.606 | ppbv | 100 |
| 104] | 1,2-Dibromoethane(EDB)... | 9.822 | 107 | 2591661 | 46.345 | ppbv | 100 |
| 105] | Tetrachloroethene(sim) | 10.080 | 166 | 2533325 | 40.674 | ppbv | 100 |
| 107] | Bromoform(sim) | 10.835 | 173 | 3271485 | 39.271 | ppbv | 100 |
| 108] | m,p-Xylene(sim) | 10.758 | 91 | 9740043 | 66.994 | ppbv | 99 |
| 109] | 1,1,2,2-Tetrachloroeth... | 11.020 | 83 | 3753084 | 33.949 | ppbv | 100 |
| 112] | Benzyl chloride(sim) | 12.122 | 91 | 5151116 | 59.805 | ppbv | 99 |
| 113] | 1,3-Dichlorobenzene(sim) | 12.138 | 146 | 4201346 | 43.520 | ppbv | 97 |
| 114] | 1,4-Dichlorobenzene(sim) | 12.173 | 146 | 3331820 | 46.095 | ppbv | 99 |
| 115] | sec-Butylbenzene(sim) | 12.189 | 105 | 9125725 | 33.116 | ppbv | 98 |
| 116] | 4-Isopropyltoluene(sim) | 12.276 | 119 | 8659642 | 35.397 | ppbv | 99 |
| 117] | 1,2-Dichlorobenzene(sim) | 12.394 | 146 | 3950266 | 39.948 | ppbv | 100 |
| 118] | n-Butylbenzene(sim) | 12.543 | 91 | 6743447 | 46.264 | ppbv | 99 |
| 119] | 1,2,4-Trichlorobenzene... | 13.523 | 180 | 1769333 | 58.242 | ppbv | 100 |
| 121] | Hexachlorobutadiene(sim) | 13.862 | 225 | 2352683 | 25.322 | ppbv | 100 |

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM20\03MAR\26\
Data File : 0326_14.D
Acq On : 27 Mar 2021 1:25 am
Operator :
Client ID : ICAL 40
Lab ID : 40
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Mar 29 08:30:55 2021
Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0329.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Mar 29 08:30:43 2021
Response via : Initial Calibration

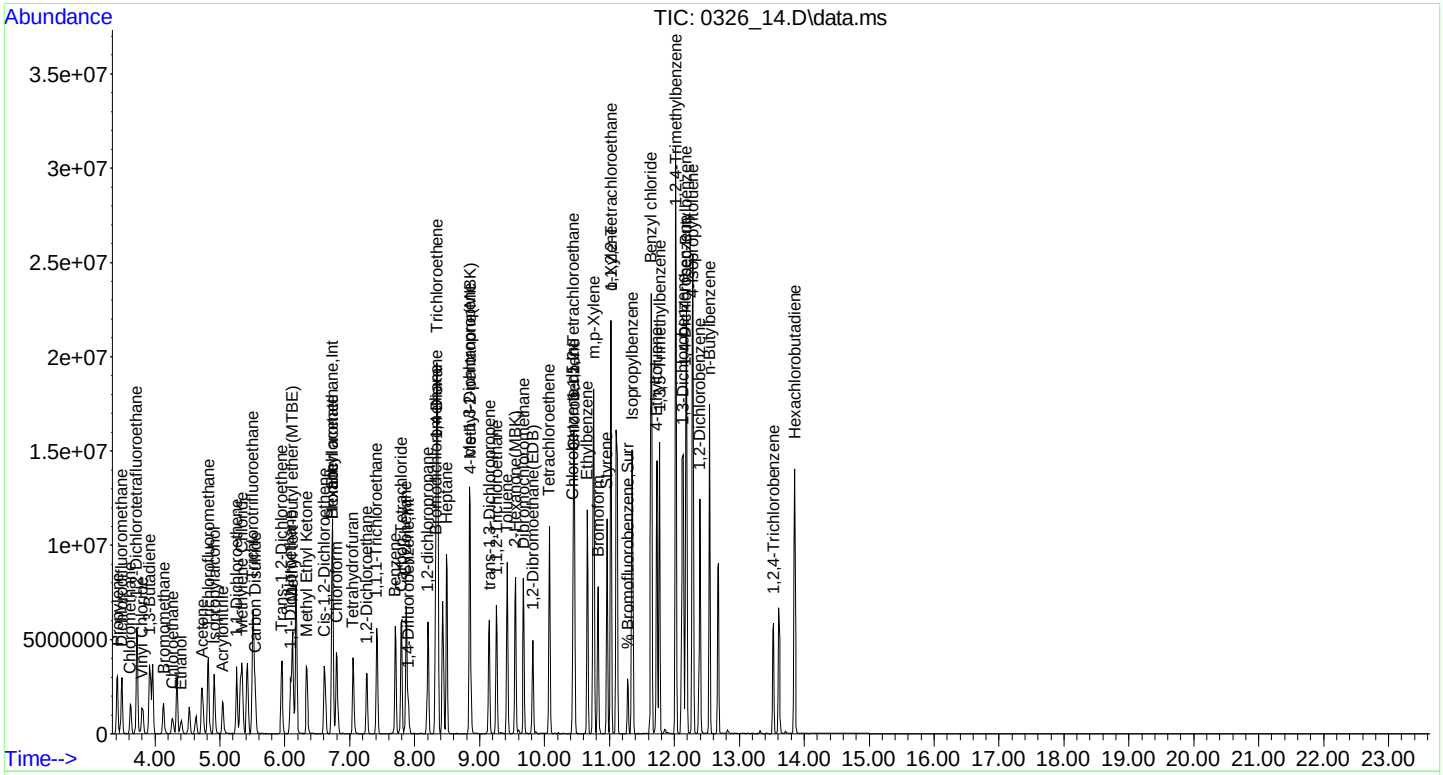
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

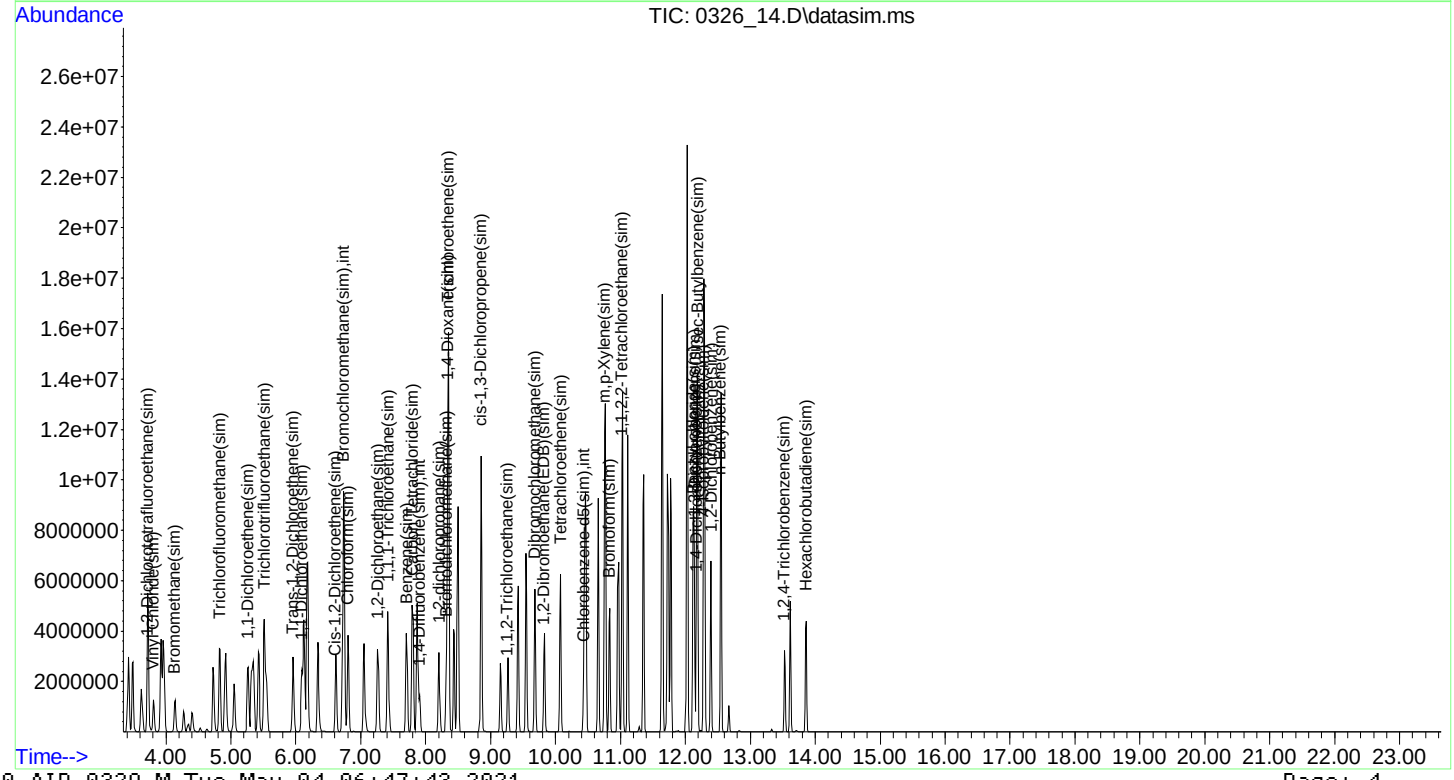
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM20\03MAR\26\
Data File : 0326_14.D
Acq On : 27 Mar 2021 1:25 am
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Client ID : ICAL 40
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Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Mar 29 08:30:43 2021
Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM20\03MAR\26\
Data File : 0326_16.D
Acq On : 27 Mar 2021 2:36 am
Operator :
Client ID : ICAL 1
Lab ID : 1ppb cc
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Mar 29 13:14:33 2021
Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0329.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Mar 29 13:12:48 2021
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Bromochloromethane | 6.704 | 130 | 263827 | 10.000 | ng | | 0.00 |
| 37) 1,4-Difluorobenzene | 7.889 | 114 | 1037824 | 10.000 | ng | | 0.00 |
| 54) Chlorobenzene-d5 | 10.430 | 82 | 507692 | 10.000 | ng | | 0.00 |
| 81) Bromochloromethane(sim) | 6.710 | 130 | 302081 | 10.000 | ng | # | 0.00 |
| 96) 1,4-Difluorobenzene(sim) | 7.889 | 114 | 1037824 | 10.000 | ng | | 0.00 |
| 106) Chlorobenzene-d5(sim) | 10.430 | 82 | 507891 | 10.000 | ng | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 63) % Bromofluorobenzene | 11.281 | 95 | 609221 | 10.182 | ppbv | | 0.00 |
| Spiked Amount 10.000 | Range 70 - 130 | | Recovery = 101.80% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) Propylene | 3.424 | 41 | 46078 | 0.992 | ppbv | | 92 |
| 3) Dichlorodifluoromethane | 3.489 | 85 | 86641 | 1.091 | ppbv | | 91 |
| 4) Chloromethane | 3.629 | 50 | 49326 | 0.996 | ppbv | | 97 |
| 5) 1,2-Dichlorotetrafluor... | 3.715 | 85 | 80749 | 1.054 | ppbv | | 96 |
| 6) Vinyl Chloride | 3.801 | 62 | 37358 | 1.059 | ppbv | | 95 |
| 7) 1,3-Butadiene | 3.920 | 54 | 37581 | 1.040 | ppbv | | 90 |
| 8) Bromomethane | 4.125 | 94 | 25021 | 0.994 | ppbv | | 96 |
| 9) Chloroethane | 4.265 | 64 | 17293 | 1.080 | ppbv# | | 74 |
| 11) Ethanol | 4.416 | 45 | 22026 | 0.989 | ppbv# | | 71 |
| 12) Acetone | 4.750 | 43 | 77200 | 0.949 | ppbv | | 97 |
| 13) Trichlorofluoromethane | 4.815 | 101 | 81031 | 0.982 | ppbv | | 91 |
| 14) Isopropylalcohol | 4.933 | 45 | 95359 | 0.956 | ppbv# | | 90 |
| 15) Acrylonitrile | 5.041 | 53 | 32454 | 0.986 | ppbv# | | 83 |
| 16) 1,1-Dichloroethene | 5.244 | 61 | 56801 | 0.959 | ppbv | | 96 |
| 17) Methylene Chloride | 5.330 | 49 | 57290 | 0.919 | ppbv | | 96 |
| 20) Carbon Disulfide | 5.528 | 76 | 69115 | 0.957 | ppbv | | 95 |
| 21) Trichlorotrifluoroethane | 5.502 | 101 | 56352 | 0.982 | ppbv | | 95 |
| 22) Trans-1,2-Dichloroethene | 5.939 | 61 | 51857 | 0.964 | ppbv | | 94 |
| 23) 1,1-Dichloroethane | 6.073 | 63 | 58513 | 0.965 | ppbv | | 96 |
| 24) Methyl tert-butyl ethe... | 6.144 | 73 | 80756 | 1.008 | ppbv# | | 1 |
| 26) Methyl Ethyl Ketone | 6.356 | 43 | 98273 | 0.881 | ppbv# | | 97 |
| 27) Cis-1,2-Dichloroethene | 6.600 | 61 | 49260 | 0.968 | ppbv | | 97 |
| 28) Hexane | 6.725 | 57 | 60171 | 0.974 | ppbv# | | 85 |
| 29) Chloroform | 6.787 | 83 | 61406 | 0.958 | ppbv | | 94 |
| 30) Ethyl acetate | 6.756 | 61 | 10822 | 0.935 | ppbv# | | 82 |
| 31) Tetrahydrofuran | 7.079 | 42 | 56689 | 0.937 | ppbv | | 97 |
| 32) 1,2-Dichloroethane | 7.246 | 62 | 56255 | 0.991 | ppbv | | 91 |
| 33) 1,1,1-Trichloroethane | 7.402 | 97 | 70827 | 0.977 | ppbv | | 91 |
| 34) Benzene | 7.688 | 78 | 74516 | 0.969 | ppbv | | 99 |
| 35) Carbon Tetrachloride | 7.789 | 117 | 73847 | 0.963 | ppbv | | 99 |
| 36) Cyclohexane | 7.867 | 41 | 47632 | 0.986 | ppbv# | | 74 |
| 38) 1,2-dichloropropane | 8.201 | 63 | 38812 | 0.988 | ppbv | | 89 |
| 39) Bromodichloromethane | 8.312 | 83 | 66018 | 0.921 | ppbv | | 99 |
| 40) Trichloroethene | 8.334 | 130 | 39095 | 0.981 | ppbv | | 89 |
| 42) 1,4-Dioxane | 8.357 | 88 | 19029 | 1.034 | ppbv# | | 66 |
| 44) Heptane | 8.490 | 43 | 98674 | 0.952 | ppbv | | 96 |
| 45) cis-1,3-Dichloropropene | 8.847 | 75 | 45224 | 0.917 | ppbv | | 97 |
| 46) 4-Methyl-2-pentanone(M... | 8.869 | 43 | 119651 | 0.924 | ppbv# | | 96 |
| 47) trans-1,3-Dichloropropene | 9.143 | 75 | 55025 | 0.967 | ppbv# | | 93 |
| 48) 1,1,2-Trichloroethane | 9.259 | 97 | 34976 | 0.968 | ppbv | | 99 |
| 49) Toluene | 9.424 | 91 | 97523 | 0.984 | ppbv | | 99 |
| 50) Dibromochloromethane | 9.677 | 129 | 62642 | 0.902 | ppbv | | 96 |
| 51) 2-Hexanone(MBK) | 9.560 | 43 | 96554 | 0.863 | ppbv# | | 89 |
| 52) 1,2-Dibromoethane(EDB) | 9.813 | 107 | 51409 | 0.922 | ppbv | | 93 |

Data Path : H:\AIR2021\CHEM20\03MAR\26\
Data File : 0326_16.D
Acq On : 27 Mar 2021 2:36 am
Operator :
Client ID : ICAL 1
Lab ID : 1ppb cc
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Mar 29 13:14:33 2021
Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0329.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Mar 29 13:12:48 2021
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 53) Tetrachloroethene | 10.075 | 166 | 47568 | 0.956 | ppbv# | 82 |
| 55) 1,1,1,2-Tetrachloroethane | 10.440 | 131 | 49003 | 1.071 | ppbv | 97 |
| 56) Chlorobenzene | 10.461 | 112 | 78901 | 1.051 | ppbv# | 62 |
| 57) Ethylbenzene | 10.656 | 91 | 129904 | 1.068 | ppbv | 92 |
| 58) m,p-Xylene | 10.758 | 91 | 200983 | 2.172 | ppbv | 96 |
| 59) Bromoform | 10.820 | 173 | 49785 | 0.969 | ppbv# | 89 |
| 60) Styrene | 10.963 | 104 | 62605 | 0.988 | ppbv | 97 |
| 61) 1,1,2,2-Tetrachloroethane | 11.025 | 83 | 70024 | 1.037 | ppbv | 91 |
| 62) o-Xylene | 11.025 | 91 | 108659 | 1.098 | ppbv | 92 |
| 65) Isopropylbenzene | 11.352 | 105 | 145759 | 1.054 | ppbv | 98 |
| 67) 4-Ethyltoluene | 11.732 | 105 | 143413 | 1.055 | ppbv | 95 |
| 68) 1,3,5-Trimethylbenzene | 11.773 | 105 | 116083 | 1.026 | ppbv# | 92 |
| 69) 1,2,4-Trimethylbenzene | 12.019 | 105 | 117505 | 1.018 | ppbv | 98 |
| 71) Benzyl chloride | 11.640 | 91 | 262286 | 1.039 | ppbv | 98 |
| 72) 1,3-Dichlorobenzene | 12.132 | 146 | 65242 | 1.040 | ppbv | 96 |
| 73) 1,4-Dichlorobenzene | 12.173 | 146 | 54581 | 1.019 | ppbv | 99 |
| 74) sec-Butylbenzene | 12.183 | 105 | 179811 | 1.062 | ppbv | 99 |
| 75) 4-Isopropyltoluene | 12.276 | 119 | 169549 | 1.037 | ppbv | 97 |
| 76) 1,2-Dichlorobenzene | 12.389 | 146 | 61401 | 1.020 | ppbv | 92 |
| 77) n-Butylbenzene | 12.543 | 91 | 110887 | 0.979 | ppbv | 98 |
| 78) 1,2,4-Trichlorobenzene | 13.528 | 180 | 20727 | 1.032 | ppbv# | 82 |
| 80) Hexachlorobutadiene | 13.856 | 225 | 46498 | 1.125 | ppbv | 93 |
| 82] 1,2-Dichlorotetrafluor... | 3.715 | 85 | 80757 | 0.971 | ppbv | 97 |
| 83] Vinyl Chloride(sim) | 3.807 | 62 | 39708 | 1.001 | ppbv | 99 |
| 84] Bromomethane(sim) | 4.125 | 94 | 25021 | 0.897 | ppbv | 96 |
| 85] Trichlorofluoromethane... | 4.820 | 101 | 88040 | 0.937 | ppbv# | 99 |
| 86] 1,2-Dichloroethane(sim) | 7.246 | 62 | 56255 | 0.935 | ppbv | 91 |
| 87] 1,1,1-Trichloroethane(... | 7.408 | 97 | 76736 | 0.957 | ppbv# | 99 |
| 88] Benzene(sim) | 7.688 | 78 | 74516 | 0.950 | ppbv | 99 |
| 89] Carbon Tetrachloride(sim) | 7.783 | 117 | 81572 | 0.963 | ppbv | 99 |
| 90] 1,1-Dichloroethene(sim) | 5.244 | 61 | 56801 | 0.901 | ppbv | 97 |
| 91] Trichlorotrifluoroetha... | 5.508 | 101 | 62174 | 0.934 | ppbv# | 100 |
| 92] Trans-1,2-Dichloroethe... | 5.939 | 61 | 51857 | 0.933 | ppbv | 94 |
| 93] 1,1-Dichloroethane(sim) | 6.078 | 63 | 65060 | 0.933 | ppbv | 99 |
| 94] Cis-1,2-Dichloroethene... | 6.600 | 61 | 49260 | 0.940 | ppbv | 97 |
| 95] Chloroform(sim) | 6.793 | 83 | 66464 | 0.941 | ppbv# | 91 |
| 97] 1,2-dichloropropane(sim) | 8.195 | 63 | 40416 | 0.902 | ppbv | 95 |
| 98] Bromodichloromethane(sim) | 8.312 | 83 | 66018 | 0.921 | ppbv | 97 |
| 99] Trichloroethene(sim) | 8.340 | 130 | 44207 | 0.936 | ppbv | 99 |
| 100] 1,4-Dioxane(sim) | 8.357 | 88 | 19029 | 1.019 | ppbv# | 79 |
| 101] cis-1,3-Dichloropropen... | 8.841 | 75 | 53057 | 0.962 | ppbv | 98 |
| 102] 1,1,2-Trichloroethane(... | 9.259 | 97 | 34787 | 0.918 | ppbv | 99 |
| 103] Dibromochloromethane(sim) | 9.682 | 129 | 70288 | 0.959 | ppbv | 98 |
| 104] 1,2-Dibromoethane(EDB)... | 9.813 | 107 | 51224 | 0.963 | ppbv | 93 |
| 105] Tetrachloroethene(sim) | 10.071 | 166 | 55909 | 0.944 | ppbv | 99 |
| 107] Bromoform(sim) | 10.825 | 173 | 57190 | 1.001 | ppbv | 100 |
| 108] m,p-Xylene(sim) | 10.758 | 91 | 202206 | 2.028 | ppbv | 97 |
| 109] 1,1,2,2-Tetrachloroeth... | 11.020 | 83 | 75063 | 0.990 | ppbv | 100 |
| 112] Benzyl chloride(sim) | 12.112 | 91 | 67440 | 1.141 | ppbv | 93 |
| 113] 1,3-Dichlorobenzene(sim) | 12.138 | 146 | 76982 | 1.163 | ppbv | 99 |
| 114] 1,4-Dichlorobenzene(sim) | 12.173 | 146 | 54581 | 1.101 | ppbv | 99 |
| 115] sec-Butylbenzene(sim) | 12.189 | 105 | 195908 | 1.036 | ppbv | 99 |
| 116] 4-Isopropyltoluene(sim) | 12.276 | 119 | 169549 | 1.010 | ppbv | 97 |
| 117] 1,2-Dichlorobenzene(sim) | 12.394 | 146 | 70749 | 1.043 | ppbv | 98 |
| 118] n-Butylbenzene(sim) | 12.543 | 91 | 110887 | 1.109 | ppbv | 98 |
| 119] 1,2,4-Trichlorobenzene... | 13.523 | 180 | 24643 | 1.183 | ppbv | 97 |
| 121] Hexachlorobutadiene(sim) | 13.862 | 225 | 57786 | 0.907 | ppbv | 99 |

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM20\03MAR\26\
Data File : 0326_16.D
Acq On : 27 Mar 2021 2:36 am
Operator :
Client ID : ICAL 1
Lab ID : 1ppb cc
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Mar 29 13:14:33 2021
Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0329.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Mar 29 13:12:48 2021
Response via : Initial Calibration

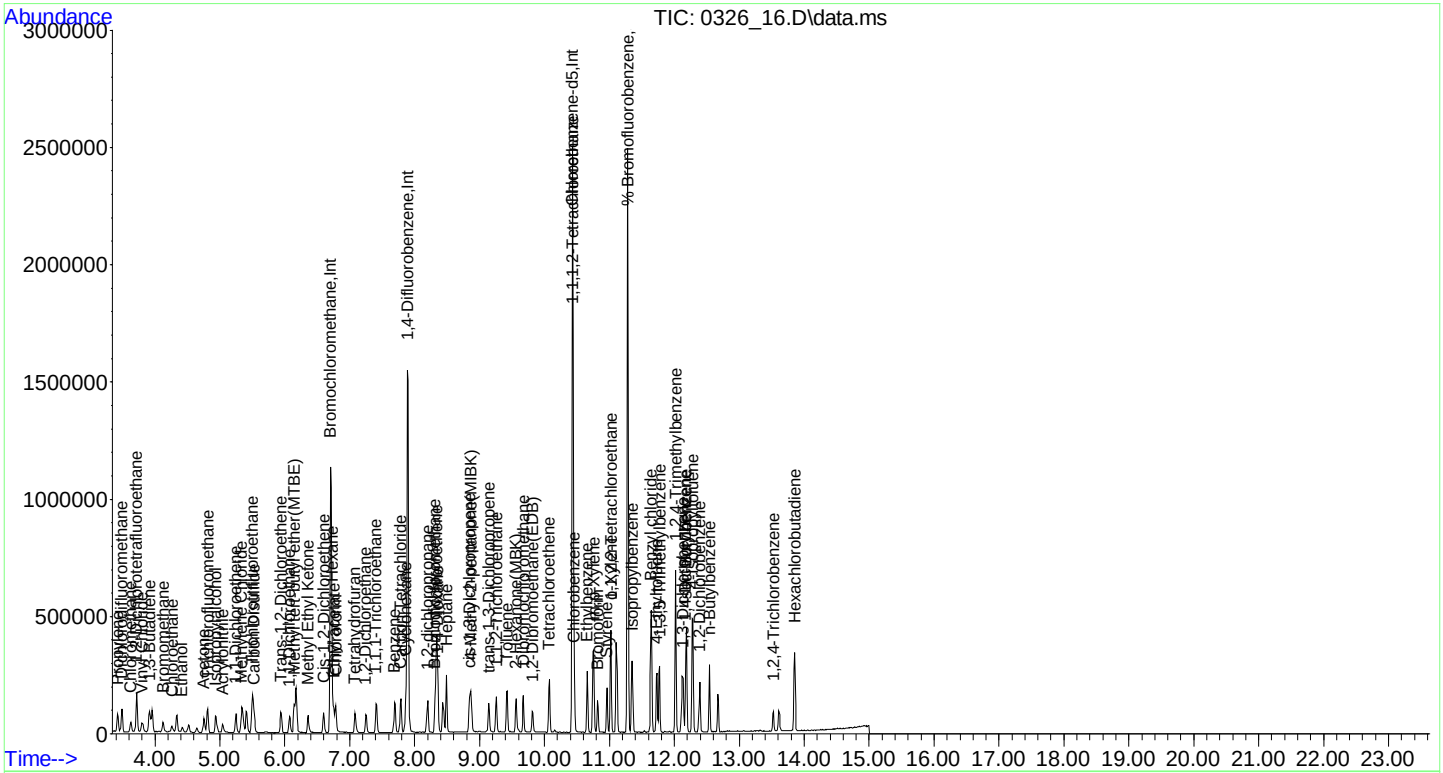
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

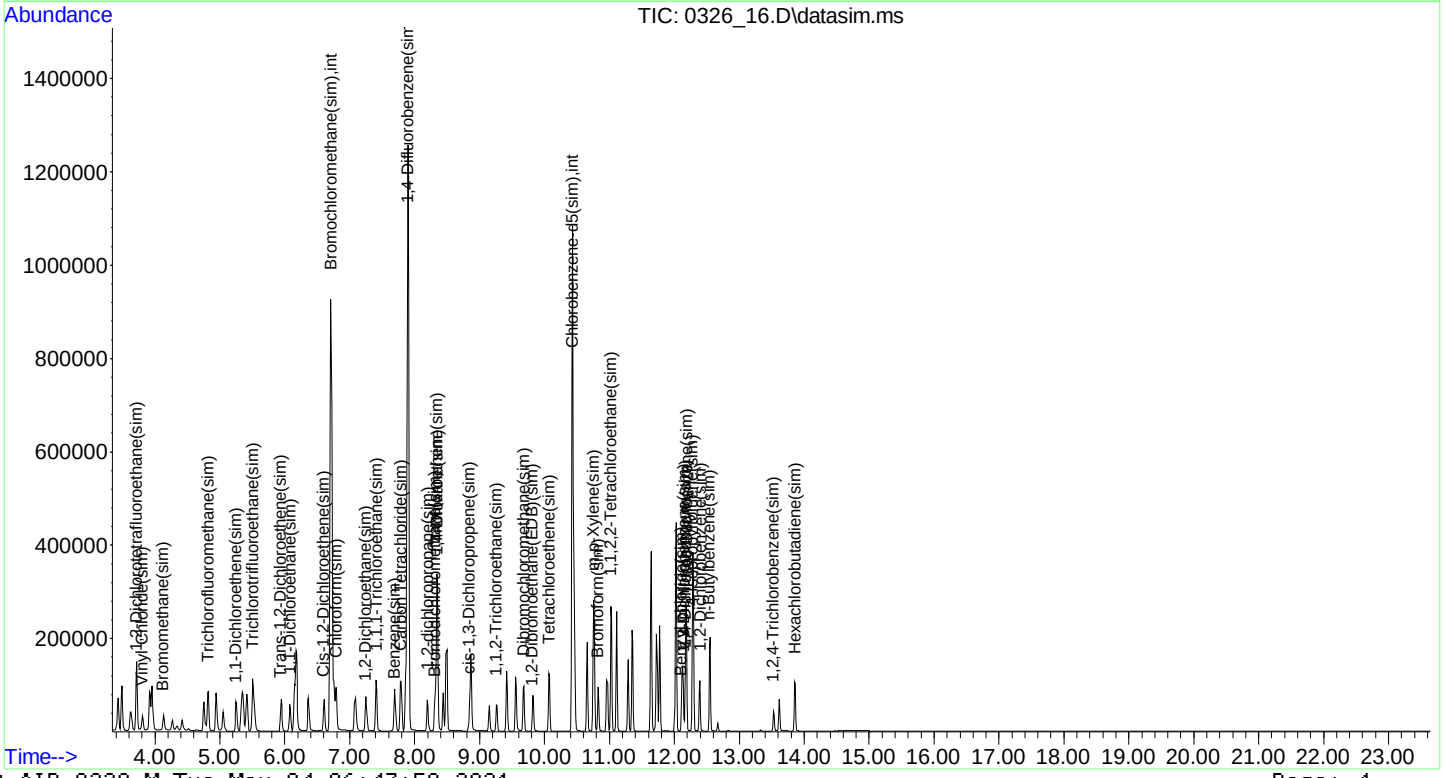
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM20\03MAR\26\
Data File : 0326_16.D
Acq On : 27 Mar 2021 2:36 am
Operator :
Client ID : ICAL 1
Lab ID : 1ppb cc
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Mar 29 13:14:33 2021
Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0329.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Mar 29 13:12:48 2021
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Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM20\03MAR\26\
Data File : 0326_17.D
Acq On : 27 Mar 2021 3:13 am
Operator :
Client ID : ICAL 10
Lab ID : 10ppb cc
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Mar 29 13:14:52 2021
Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0329.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Mar 29 13:12:48 2021
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Bromochloromethane | 6.714 | 130 | 263549 | 10.000 | ng | | 0.01 |
| 37) 1,4-Difluorobenzene | 7.900 | 114 | 1029180 | 10.000 | ng | | 0.01 |
| 54) Chlorobenzene-d5 | 10.430 | 82 | 556884 | 10.000 | ng | | 0.00 |
| 81) Bromochloromethane(sim) | 6.720 | 130 | 303901 | 10.000 | ng | # | 0.01 |
| 96) 1,4-Difluorobenzene(sim) | 7.900 | 114 | 1028941 | 10.000 | ng | | 0.01 |
| 106) Chlorobenzene-d5(sim) | 10.430 | 82 | 556884 | 10.000 | ng | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 63) % Bromofluorobenzene | 11.281 | 95 | 681939 | 10.390 | ppbv | | 0.00 |
| Spiked Amount 10.000 | Range 70 - 130 | | Recovery = 103.90% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) Propylene | 3.424 | 41 | 468014 | 10.086 | ppbv | | 88 |
| 3) Dichlorodifluoromethane | 3.489 | 85 | 845323 | 10.655 | ppbv | | 93 |
| 4) Chloromethane | 3.618 | 50 | 500352 | 10.114 | ppbv | | 94 |
| 5) 1,2-Dichlorotetrafluor... | 3.715 | 85 | 770125 | 10.066 | ppbv | | 98 |
| 6) Vinyl Chloride | 3.801 | 62 | 348617 | 9.897 | ppbv | | 93 |
| 7) 1,3-Butadiene | 3.920 | 54 | 368890 | 10.218 | ppbv# | | 88 |
| 8) Bromomethane | 4.125 | 94 | 251285 | 9.997 | ppbv# | | 91 |
| 9) Chloroethane | 4.265 | 64 | 166111 | 10.385 | ppbv# | | 74 |
| 11) Ethanol | 4.405 | 45 | 206294 | 9.276 | ppbv# | | 76 |
| 12) Acetone | 4.728 | 43 | 792396 | 9.747 | ppbv | | 94 |
| 13) Trichlorofluoromethane | 4.815 | 101 | 841613 | 10.206 | ppbv | | 91 |
| 14) Isopropylalcohol | 4.912 | 45 | 1045760 | 10.498 | ppbv# | | 85 |
| 15) Acrylonitrile | 5.041 | 53 | 332353 | 10.111 | ppbv | | 87 |
| 16) 1,1-Dichloroethene | 5.252 | 61 | 609275 | 10.296 | ppbv | | 91 |
| 17) Methylene Chloride | 5.330 | 49 | 613946 | 9.863 | ppbv | | 99 |
| 20) Carbon Disulfide | 5.537 | 76 | 737909 | 10.223 | ppbv | | 98 |
| 21) Trichlorotrifluoroethane | 5.502 | 101 | 578528 | 10.094 | ppbv | | 94 |
| 22) Trans-1,2-Dichloroethene | 5.946 | 61 | 543896 | 10.126 | ppbv | | 95 |
| 23) 1,1-Dichloroethane | 6.080 | 63 | 616247 | 10.169 | ppbv | | 98 |
| 24) Methyl tert-butyl ethe... | 6.120 | 73 | 828058 | 10.348 | ppbv# | | 1 |
| 26) Methyl Ethyl Ketone | 6.333 | 43 | 1232015 | 11.058 | ppbv# | | 97 |
| 27) Cis-1,2-Dichloroethene | 6.610 | 61 | 523179 | 10.289 | ppbv | | 99 |
| 28) Hexane | 6.725 | 57 | 633816 | 10.272 | ppbv | | 86 |
| 29) Chloroform | 6.798 | 83 | 656631 | 10.259 | ppbv | | 93 |
| 30) Ethyl acetate | 6.735 | 61 | 115758 | 10.008 | ppbv | | 91 |
| 31) Tetrahydrofuran | 7.058 | 42 | 620774 | 10.275 | ppbv | | 97 |
| 32) 1,2-Dichloroethane | 7.256 | 62 | 585258 | 10.316 | ppbv | | 92 |
| 33) 1,1,1-Trichloroethane | 7.412 | 97 | 750390 | 10.364 | ppbv | | 92 |
| 34) Benzene | 7.699 | 78 | 792562 | 10.318 | ppbv | | 98 |
| 35) Carbon Tetrachloride | 7.788 | 117 | 791899 | 10.333 | ppbv | | 98 |
| 36) Cyclohexane | 7.866 | 41 | 485356 | 10.054 | ppbv# | | 65 |
| 38) 1,2-dichloropropane | 8.201 | 63 | 386043 | 9.911 | ppbv | | 91 |
| 39) Bromodichloromethane | 8.323 | 83 | 739959 | 10.408 | ppbv | | 97 |
| 40) Trichloroethene | 8.334 | 130 | 408904 | 10.347 | ppbv | | 91 |
| 42) 1,4-Dioxane | 8.334 | 88 | 187145 | 10.258 | ppbv# | | 73 |
| 44) Heptane | 8.490 | 43 | 1046799 | 10.181 | ppbv | | 97 |
| 45) cis-1,3-Dichloropropene | 8.846 | 75 | 524970 | 10.738 | ppbv | | 96 |
| 46) 4-Methyl-2-pentanone(M... | 8.858 | 43 | 1368985 | 10.666 | ppbv# | | 97 |
| 47) trans-1,3-Dichloropropene | 9.143 | 75 | 597309 | 10.589 | ppbv | | 95 |
| 48) 1,1,2-Trichloroethane | 9.259 | 97 | 370530 | 10.341 | ppbv | | 97 |
| 49) Toluene | 9.424 | 91 | 1033009 | 10.515 | ppbv | | 99 |
| 50) Dibromochloromethane | 9.677 | 129 | 733555 | 10.655 | ppbv | | 95 |
| 51) 2-Hexanone(MBK) | 9.551 | 43 | 1224559 | 11.037 | ppbv | | 92 |
| 52) 1,2-Dibromoethane(EDB) | 9.822 | 107 | 582092 | 10.523 | ppbv | | 95 |

Data Path : H:\AIR2021\CHEM20\03MAR\26\
Data File : 0326_17.D
Acq On : 27 Mar 2021 3:13 am
Operator :
Client ID : ICAL 10
Lab ID : 10ppb cc
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Mar 29 13:14:52 2021
Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0329.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Mar 29 13:12:48 2021
Response via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 53) | Tetrachloroethene | 10.075 | 166 | 496357 | 10.064 | ppbv# | 83 |
| 55) | 1,1,1,2-Tetrachloroethane | 10.440 | 131 | 525030 | 10.465 | ppbv | 98 |
| 56) | Chlorobenzene | 10.461 | 112 | 848288 | 10.303 | ppbv# | 54 |
| 57) | Ethylbenzene | 10.655 | 91 | 1420232 | 10.641 | ppbv | 92 |
| 58) | m,p-Xylene | 10.758 | 91 | 2234539 | 22.020 | ppbv | 97 |
| 59) | Bromoform | 10.819 | 173 | 627290 | 11.136 | ppbv | 93 |
| 60) | Styrene | 10.963 | 104 | 809790 | 11.654 | ppbv | 95 |
| 61) | 1,1,2,2-Tetrachloroethane | 11.024 | 83 | 796918 | 10.764 | ppbv | 90 |
| 62) | o-Xylene | 11.024 | 91 | 1156649 | 10.652 | ppbv | 94 |
| 65) | Isopropylbenzene | 11.352 | 105 | 1625135 | 10.713 | ppbv | 99 |
| 67) | 4-Ethyltoluene | 11.722 | 105 | 1701176 | 11.414 | ppbv# | 94 |
| 68) | 1,3,5-Trimethylbenzene | 11.773 | 105 | 1304999 | 10.519 | ppbv# | 93 |
| 69) | 1,2,4-Trimethylbenzene | 12.019 | 105 | 1402604 | 11.079 | ppbv | 100 |
| 71) | Benzyl chloride | 11.639 | 91 | 3003090 | 10.840 | ppbv | 97 |
| 72) | 1,3-Dichlorobenzene | 12.132 | 146 | 756524 | 10.991 | ppbv | 98 |
| 73) | 1,4-Dichlorobenzene | 12.173 | 146 | 645689 | 10.990 | ppbv | 98 |
| 74) | sec-Butylbenzene | 12.183 | 105 | 2038105 | 10.978 | ppbv | 99 |
| 75) | 4-Isopropyltoluene | 12.276 | 119 | 2014838 | 11.234 | ppbv | 99 |
| 76) | 1,2-Dichlorobenzene | 12.389 | 146 | 730303 | 11.056 | ppbv | 92 |
| 77) | n-Butylbenzene | 12.542 | 91 | 1458421 | 11.740 | ppbv | 97 |
| 78) | 1,2,4-Trichlorobenzene | 13.528 | 180 | 252299 | 11.454 | ppbv# | 83 |
| 80) | Hexachlorobutadiene | 13.856 | 225 | 449355 | 9.909 | ppbv | 96 |
| 82] | 1,2-Dichlorotetrafluor... | 3.715 | 85 | 770025 | 9.207 | ppbv | 98 |
| 83] | Vinyl Chloride(sim) | 3.807 | 62 | 386587 | 9.687 | ppbv | 98 |
| 84] | Bromomethane(sim) | 4.125 | 94 | 251285 | 8.951 | ppbv# | 91 |
| 85] | Trichlorofluoromethane... | 4.820 | 101 | 900706 | 9.524 | ppbv# | 99 |
| 86] | 1,2-Dichloroethane(sim) | 7.256 | 62 | 585258 | 9.670 | ppbv | 92 |
| 87] | 1,1,1-Trichloroethane(... | 7.418 | 97 | 807549 | 10.014 | ppbv# | 98 |
| 88] | Benzene(sim) | 7.699 | 78 | 792891 | 10.053 | ppbv | 98 |
| 89] | Carbon Tetrachloride(sim) | 7.794 | 117 | 866956 | 10.173 | ppbv | 99 |
| 90] | 1,1-Dichloroethene(sim) | 5.252 | 61 | 609275 | 9.602 | ppbv | 93 |
| 91] | Trichlorotrifluoroetha... | 5.508 | 101 | 634891 | 9.480 | ppbv# | 99 |
| 92] | Trans-1,2-Dichloroethe... | 5.946 | 61 | 543896 | 9.731 | ppbv | 95 |
| 93] | 1,1-Dichloroethane(sim) | 6.086 | 63 | 674865 | 9.618 | ppbv | 100 |
| 94] | Cis-1,2-Dichloroethene... | 6.610 | 61 | 523179 | 9.923 | ppbv | 99 |
| 95] | Chloroform(sim) | 6.793 | 83 | 700869 | 9.865 | ppbv# | 90 |
| 97] | 1,2-dichloropropane(sim) | 8.206 | 63 | 433262 | 9.750 | ppbv | 94 |
| 98] | Bromodichloromethane(sim) | 8.323 | 83 | 739959 | 10.411 | ppbv | 95 |
| 99] | Trichloroethene(sim) | 8.340 | 130 | 465526 | 9.937 | ppbv | 98 |
| 100] | 1,4-Dioxane(sim) | 8.334 | 88 | 187145 | 10.106 | ppbv# | 86 |
| 101] | cis-1,3-Dichloropropen... | 8.841 | 75 | 582704 | 10.654 | ppbv | 98 |
| 102] | 1,1,2-Trichloroethane(... | 9.259 | 97 | 370530 | 9.866 | ppbv | 97 |
| 103] | Dibromochloromethane(sim) | 9.682 | 129 | 826823 | 11.378 | ppbv | 98 |
| 104] | 1,2-Dibromoethane(EDB)... | 9.822 | 107 | 582092 | 11.041 | ppbv | 95 |
| 105] | Tetrachloroethene(sim) | 10.080 | 166 | 595849 | 10.147 | ppbv | 99 |
| 107] | Bromoform(sim) | 10.825 | 173 | 707594 | 11.294 | ppbv | 99 |
| 108] | m,p-Xylene(sim) | 10.758 | 91 | 2236855 | 20.457 | ppbv | 97 |
| 109] | 1,1,2,2-Tetrachloroeth... | 11.020 | 83 | 852796 | 10.257 | ppbv | 100 |
| 112] | Benzyl chloride(sim) | 12.111 | 91 | 932382 | 14.393 | ppbv | 93 |
| 113] | 1,3-Dichlorobenzene(sim) | 12.138 | 146 | 909122 | 12.521 | ppbv | 99 |
| 114] | 1,4-Dichlorobenzene(sim) | 12.173 | 146 | 645689 | 11.878 | ppbv | 99 |
| 115] | sec-Butylbenzene(sim) | 12.189 | 105 | 2246125 | 10.838 | ppbv | 99 |
| 116] | 4-Isopropyltoluene(sim) | 12.276 | 119 | 2014838 | 10.951 | ppbv | 99 |
| 117] | 1,2-Dichlorobenzene(sim) | 12.394 | 146 | 841552 | 11.316 | ppbv | 98 |
| 118] | n-Butylbenzene(sim) | 12.542 | 91 | 1458421 | 13.304 | ppbv | 97 |
| 119] | 1,2,4-Trichlorobenzene... | 13.523 | 180 | 304938 | 13.347 | ppbv | 96 |
| 121] | Hexachlorobutadiene(sim) | 13.851 | 225 | 565462 | 8.092 | ppbv | 99 |

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM20\03MAR\26\
Data File : 0326_17.D
Acq On : 27 Mar 2021 3:13 am
Operator :
Client ID : ICAL 10
Lab ID : 10ppb cc
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Mar 29 13:14:52 2021
Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0329.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Mar 29 13:12:48 2021
Response via : Initial Calibration

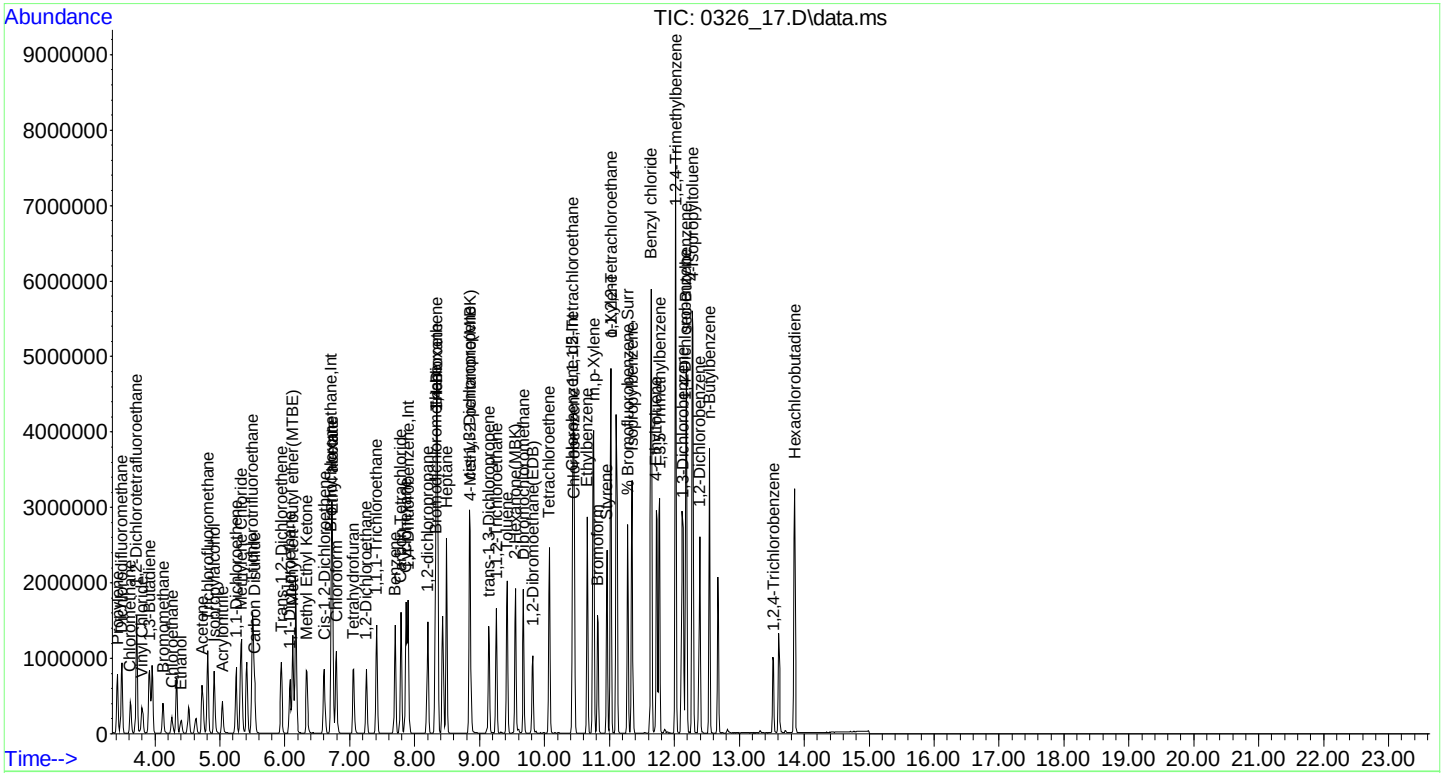
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

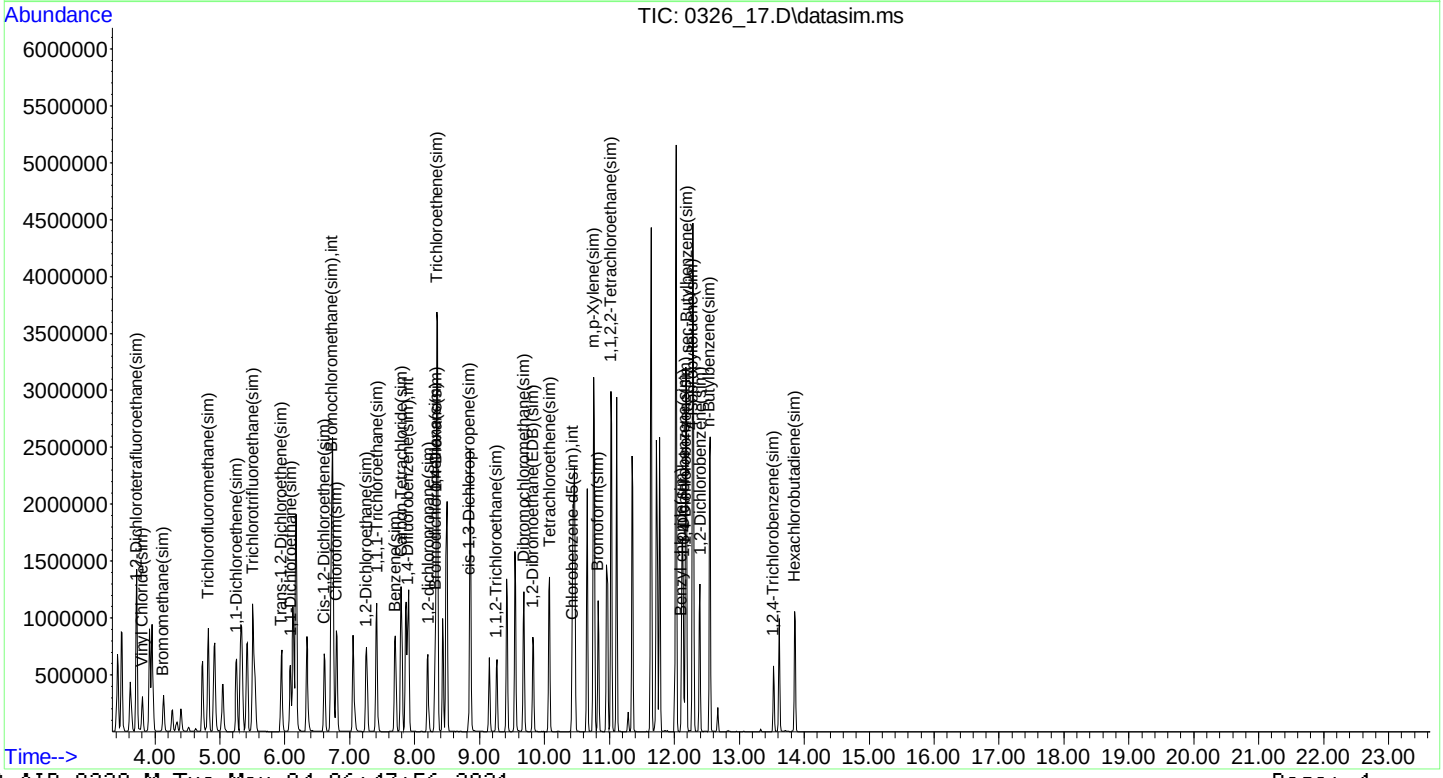
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM20\03MAR\26\
Data File : 0326_17.D
Acq On : 27 Mar 2021 3:13 am
Operator :
Client ID : ICAL 10
Lab ID : 10ppb cc
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Mar 29 13:14:52 2021
Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0329.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Mar 29 13:12:48 2021
Response via : Initial Calibration



6B
AIR INITIAL CALIBRATION DATA

Lab Name: Phoenix Environmental Labs | Client: GC-ENV

Lab Code: Phoenix | SDG No.: GCH92051

Instrument ID: CHEM24 | Calibration Date From: 03/10/21 13:16

Heated Purge (Y/N): Y | Calibration Date Thru: 03/10/21 17:26

GC Column: | Method File: 24AIR_0310.M

Laboratory File Ids

RRF1 0310_03.D RRF2 0310_04.D RRF3 0310_05.D RRF4 0310_06.D RRF5 0310_07.D RRF6 0310_08.D
RRF7 0310_14.D RRF8 0310_09.D RRF9 0310_10.D RRF10 0310_15.D RRF11 0310_11.D RRF12 0310_12.D

| 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 | | | | | 1.098 | 0.991 | 0.958 | 0.917 | 1.111 | 0.996 | 0.973 | 0.918 | 0.995 | 7.41 |
| Dichlorodifluoromethane | | | | 2.102 | 2.002 | 1.826 | 1.961 | 1.656 | 2.342 | 1.782 | 1.512 | 1.252 | 1.826 | 17.85 |
| Chloromethane | | | | 1.400 | 1.242 | 1.239 | 1.143 | 1.454 | 1.652 | 1.497 | 1.465 | 1.337 | 1.381 | 11.39 |
| 1,2-Dichlorotetrafluoroethane | | | | 1.589 | 1.711 | 1.639 | 1.641 | 1.569 | 1.796 | 1.676 | 1.595 | 1.285 | 1.611 | 8.74 |
| Vinyl Chloride | | | | 0.889 | 0.744 | 0.819 | 0.875 | 0.798 | 0.912 | 0.872 | 0.840 | 0.813 | 0.840 | 6.24 |
| 1,3-Butadiene | | | | 0.716 | 0.729 | 0.693 | 0.708 | 0.679 | 0.797 | 0.749 | 0.737 | 0.706 | 0.724 | 4.84 |
| Bromomethane | | | | | 0.871 | 0.824 | 0.817 | 0.774 | 0.861 | 0.811 | 0.797 | 0.775 | 0.816 | 4.36 |
| Chloroethane | | | | 0.365 | 0.325 | 0.346 | 0.328 | 0.307 | 0.353 | 0.328 | 0.319 | 0.311 | 0.331 | 5.89 |
| Ethanol | | | | | | 0.522 | 0.450 | 0.417 | 0.514 | 0.431 | 0.395 | 0.381 | 0.444 | 12.43 |
| Acetone | | | | | 3.062 | 2.831 | 2.463 | 2.483 | 2.768 | 2.482 | 2.398 | 2.078 | 2.571 | 11.84 |
| Trichlorofluoromethane | | | | 2.691 | 2.633 | 2.656 | 2.439 | 2.535 | 2.795 | 2.509 | 2.495 | 2.322 | 2.564 | 5.61 |
| Isopropylalcohol | | | | | 2.621 | 2.240 | 2.191 | 2.201 | 2.673 | 2.361 | 2.114 | 1.836 | 2.280 | 11.94 |
| Acrylonitrile | | | | | 0.654 | 0.648 | 0.684 | 0.628 | 0.744 | 0.714 | 0.688 | 0.688 | 0.681 | 5.47 |
| 1,1-Dichloroethene | | | | 1.654 | 1.626 | 1.508 | 1.479 | 1.484 | 1.672 | 1.515 | 1.480 | 1.445 | 1.540 | 5.58 |
| Methylene Chloride | | | | | 1.712 | 1.501 | 1.613 | 1.607 | 1.780 | 1.622 | 1.572 | 1.314 | 1.590 | 8.80 |
| Carbon Disulfide | | | | | 1.978 | 2.005 | 1.928 | 1.863 | 2.148 | 1.993 | 1.941 | 1.931 | 1.973 | 4.24 |
| Trichlorotrifluoroethane | | | | 1.920 | 1.907 | 1.837 | 1.790 | 1.712 | 1.949 | 1.754 | 1.725 | 1.684 | 1.809 | 5.45 |
| Trans-1,2-Dichloroethene | | | | 1.315 | 1.294 | 1.281 | 1.323 | 1.293 | 1.485 | 1.397 | 1.361 | 1.347 | 1.344 | 4.78 |
| 1,1-Dichloroethane | | | | 1.705 | 1.608 | 1.599 | 1.568 | 1.521 | 1.712 | 1.603 | 1.525 | 1.495 | 1.593 | 4.81 |
| Methyl tert-butyl ether(MTBE) | | | | 1.845 | 1.667 | 1.828 | 1.832 | 1.734 | 2.007 | 1.915 | 1.845 | 1.820 | 1.833 | 5.29 |
| Methyl Ethyl Ketone | | | | 2.750 | 2.661 | 2.558 | 2.504 | 2.474 | 2.892 | 2.727 | 2.675 | 2.613 | 2.651 | 4.95 |
| Cis-1,2-Dichloroethene | | | | 1.444 | 1.352 | 1.358 | 1.412 | 1.355 | 1.599 | 1.535 | 1.473 | 1.437 | 1.441 | 5.91 |
| Hexane | | | | | 1.431 | 1.756 | 1.844 | 1.738 | 1.977 | 1.911 | 1.833 | 1.789 | 1.785 | 9.16 |
| Chloroform | | | | 1.887 | 1.894 | 1.915 | 1.912 | 1.836 | 2.103 | 1.916 | 1.860 | 1.789 | 1.901 | 4.56 |
| Ethyl acetate | | | | 3.775 | 3.235 | 3.385 | 2.980 | 2.892 | 3.405 | 3.149 | 3.076 | 2.991 | 3.210 | 8.61 |

(#) The maximum %RSD was not met for this compound Note: m,p-xylene TV is 2 times the TV Listed

(l) linear (q) quadratic (i) inverse conc weight (i2) inverse conc weight squared (f) force through zero

Compounds not using average response (l, li, lfi, li2, lfi2, q, qi, qfi, qi2, qfi2) display concentrations and not response factors

6B
AIR INITIAL CALIBRATION DATA

Lab Name: Phoenix Environmental Labs | Client: GC-ENV

Lab Code: Phoenix | SDG No.: GCH92051

Instrument ID: CHEM24 | Calibration Date From: 03/10/21 13:16

Heated Purge (Y/N): Y | Calibration Date Thru: 03/10/21 17:26

GC Column: | Method File: 24AIR_0310.M

Laboratory File Ids

RRF1 0310_03.D RRF2 0310_04.D RRF3 0310_05.D RRF4 0310_06.D RRF5 0310_07.D RRF6 0310_08.D
RRF7 0310_14.D RRF8 0310_09.D RRF9 0310_10.D RRF10 0310_15.D RRF11 0310_11.D RRF12 0310_12.D

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Tetrahydrofuran | | | | | 0.906 | 0.919 | 0.860 | 0.840 | 0.946 | 0.864 | 0.854 | 0.823 | 0.876 | 4.83 |
| 1,2-Dichloroethane | | | | 1.525 | 1.441 | 1.541 | 1.447 | 1.469 | 1.662 | 1.493 | 1.511 | 1.434 | 1.503 | 4.73 |
| 1,1,1-Trichloroethane | | | | 1.989 | 2.087 | 2.169 | 2.054 | 2.034 | 2.286 | 2.099 | 2.050 | 1.980 | 2.083 | 4.58 |
| Benzene | | | | 2.216 | 2.109 | 1.925 | 2.110 | 1.945 | 2.234 | 2.107 | 2.036 | 2.001 | 2.076 | 5.25 |
| Carbon Tetrachloride | | | | 2.622 | 2.379 | 2.341 | 2.272 | 2.279 | 2.596 | 2.383 | 2.359 | 2.258 | 2.388 | 5.60 |
| Cyclohexane | | | | | 1.350 | 1.313 | 1.458 | 1.315 | 1.521 | 1.469 | 1.402 | 1.381 | 1.401 | 5.42 |
| 1,2-dichloropropane | | | | 0.320 | 0.308 | 0.306 | 0.311 | 0.290 | 0.345 | 0.321 | 0.320 | 0.322 | 0.316 | 4.69 |
| Bromodichloromethane | | | | 0.626 | 0.637 | 0.658 | 0.633 | 0.638 | 0.742 | 0.690 | 0.693 | 0.691 | 0.668 | 5.80 |
| Trichloroethene | | | | 0.403 | 0.375 | 0.391 | 0.390 | 0.369 | 0.438 | 0.417 | 0.414 | 0.420 | 0.402 | 5.59 |
| 1,4-Dioxane | | | | 0.128 | 0.131 | 0.121 | 0.118 | 0.120 | 0.162 | 0.151 | 0.138 | 0.146 | 0.135 | 11.45 |
| Heptane | | | | 0.691 | 0.626 | 0.669 | 0.701 | 0.675 | 0.799 | 0.755 | 0.757 | 0.752 | 0.714 | 7.69 |
| cis-1,3-Dichloropropene | | | | 0.374 | 0.389 | 0.387 | 0.390 | 0.391 | 0.457 | 0.449 | 0.453 | 0.457 | 0.416 | 8.69 |
| 4-Methyl-2-pentanone(MIBK) | | | | 0.891 | 0.815 | 0.886 | 0.858 | 0.936 | 1.145 | 1.067 | 1.098 | 1.073 | 0.974 | 12.44 |
| trans-1,3-Dichloropropene | | | | 0.363 | 0.354 | 0.364 | 0.393 | 0.412 | 0.482 | 0.454 | 0.459 | 0.471 | 0.417 | 12.18 |
| 1,1,2-Trichloroethane | | | | 0.381 | 0.348 | 0.341 | 0.343 | 0.333 | 0.383 | 0.360 | 0.359 | 0.367 | 0.357 | 4.91 |
| Toluene | | | | 0.755 | 0.741 | 0.749 | 0.810 | 0.768 | 0.909 | 0.865 | 0.867 | 0.868 | 0.815 | 7.82 |
| Dibromochloromethane | | | | 0.794 | 0.774 | 0.811 | 0.779 | 0.784 | 0.916 | 0.878 | 0.896 | 0.884 | 0.835 | 6.84 |
| 2-Hexanone(MBK) | | | | | 0.670 | 0.741 | 0.703 | 0.813 | 1.079 | 1.040 | 1.052 | 1.077 | 0.897 | 20.24 |
| 1,2-Dibromoethane(EDB) | | | | 0.579 | 0.551 | 0.594 | 0.590 | 0.602 | 0.696 | 0.663 | 0.668 | 0.675 | 0.624 | 8.23 |
| Tetrachloroethene | | | | 0.506 | 0.471 | 0.481 | 0.460 | 0.461 | 0.519 | 0.495 | 0.497 | 0.500 | 0.488 | 4.27 |
| 1,1,1,2-Tetrachloroethane | | | | 1.117 | 1.081 | 1.108 | 1.064 | 1.081 | 1.226 | 1.148 | 1.165 | 1.140 | 1.126 | 4.50 |
| Chlorobenzene | | | | 1.817 | 1.654 | 1.641 | 1.660 | 1.637 | 1.862 | 1.757 | 1.719 | 1.708 | 1.717 | 4.70 |
| Ethylbenzene | | | | 2.401 | 2.231 | 2.374 | 2.456 | 2.404 | 2.781 | 2.665 | 2.670 | 2.598 | 2.509 | 7.08 |
| m,p-Xylene | | | | 1.747 | 1.730 | 1.769 | 1.494 | 1.877 | 2.183 | 2.098 | 2.083 | 2.002 | 1.887 | 11.79 |
| Bromoform | | | | 1.579 | 1.431 | 1.513 | 1.265 | 1.330 | 1.685 | 1.628 | 1.680 | 1.668 | 1.531 | 10.27 |

(#) The maximum %RSD was not met for this compound Note: m,p-xylene TV is 2 times the TV Listed

(l) linear (q) quadratic (i) inverse conc weight (i2) inverse conc weight squared (f) force through zero

Compounds not using average response (l, li, lfi, li2, lfi2, q, qi, qfi, qi2, qfi2) display concentrations and not response factors

6B
AIR INITIAL CALIBRATION DATA

Lab Name: Phoenix Environmental Labs | Client: GC-ENV

Lab Code: Phoenix | SDG No.: GCH92051

Instrument ID: CHEM24 | Calibration Date From: 03/10/21 13:16

Heated Purge (Y/N): Y | Calibration Date Thru: 03/10/21 17:26

GC Column: | Method File: 24AIR_0310.M

Laboratory File Ids

RRF1 0310_03.D RRF2 0310_04.D RRF3 0310_05.D RRF4 0310_06.D RRF5 0310_07.D RRF6 0310_08.D
RRF7 0310_14.D RRF8 0310_09.D RRF9 0310_10.D RRF10 0310_15.D RRF11 0310_11.D RRF12 0310_12.D

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Styrene | | | | 1.013 | 0.992 | 1.075 | 1.273 | 1.364 | 1.649 | 1.578 | 1.620 | 1.615 | 1.353 | 20.38 |
| 1,1,2,2-Tetrachloroethane | | | | 1.627 | 1.496 | 1.622 | 1.569 | 1.587 | 1.792 | 1.702 | 1.723 | 1.677 | 1.644 | 5.44 |
| o-Xylene | | | | 1.653 | 1.464 | 1.650 | 1.833 | 1.818 | 2.180 | 2.105 | 2.165 | 2.102 | 1.886 | 13.96 |
| Isopropylbenzene | | | | 2.304 | 2.144 | 2.248 | 2.574 | 2.552 | 3.097 | 2.963 | 2.996 | 2.888 | 2.641 | 13.56 |
| 4-Ethyltoluene | | | | 2.222 | 2.293 | 2.505 | 2.667 | 2.699 | 3.318 | 3.118 | 3.211 | 3.104 | 2.793 | 14.64 |
| 1,3,5-Trimethylbenzene | | | | 1.845 | 1.867 | 2.125 | 2.097 | 2.101 | 2.708 | 2.613 | 2.620 | 2.549 | 2.281 | 14.96 |
| 1,2,4-Trimethylbenzene | | | | 1.741 | 1.642 | 2.045 | 1.853 | 1.972 | 2.699 | 2.551 | 2.597 | 2.498 | 2.178 | 18.73 |
| Benzyl chloride | | | | 1.088 | 1.040 | 1.253 | 1.232 | 1.511 | 1.942 | 1.945 | 2.017 | 1.868 | 1.544 | 26.04 |
| 1,3-Dichlorobenzene | | | | 1.364 | 1.379 | 1.491 | 1.436 | 1.537 | 1.850 | 1.736 | 1.786 | 1.699 | 1.586 | 11.59 |
| 1,4-Dichlorobenzene | | | | 1.243 | 1.206 | 1.379 | 1.345 | 1.425 | 1.766 | 1.652 | 1.705 | 1.635 | 1.484 | 14.07 |
| sec-Butylbenzene | | | | 2.572 | 2.511 | 2.883 | 3.025 | 3.182 | 3.749 | 3.568 | 3.596 | 3.394 | 3.164 | 14.22 |
| 4-Isopropyltoluene | | | | 1.852 | 1.923 | 2.255 | 2.207 | 2.484 | 3.133 | 2.982 | 3.079 | 2.858 | 2.530 | 19.70 |
| 1,2-Dichlorobenzene | | | | 1.114 | 1.044 | 1.211 | 1.102 | 1.250 | 1.472 | 1.391 | 1.450 | 1.358 | 1.266 | 12.59 |
| n-Butylbenzene | | | | 1.453 | 1.427 | 1.742 | 1.589 | 1.888 | 2.413 | 2.323 | 2.361 | 2.246 | 1.938 | 20.86 |
| 1,2,4-Trichlorobenzene qfi | | | | | 0.099 | 0.380 | 0.523 | 1.475 | 5.571 | 10.640 | 25.610 | 39.620 | Coef R2 | 1.00 |
| Hexachlorobutadiene | | | | 0.535 | 0.485 | 0.563 | 0.519 | 0.560 | 0.622 | 0.594 | 0.630 | 0.668 | 0.575 | 10.19 |
| 1,2-Dichlorotetrafluoroethane(sim) | 2.224 | 1.734 | 1.887 | 1.522 | 1.649 | 1.574 | 1.593 | 1.514 | 1.719 | | | | 1.713 | 13.14 |
| Vinyl Chloride(sim) | | 0.992 | 0.998 | 0.901 | 0.865 | 0.873 | 0.891 | 0.840 | 0.958 | | | | 0.915 | 6.57 |
| Bromomethane(sim) | 1.152 | 1.010 | 1.103 | 0.923 | 0.840 | 0.792 | 0.793 | 0.747 | 0.825 | | | | 0.909 | 16.13 |
| Trichlorofluoromethane(sim) | 3.599 | 3.072 | 3.016 | 2.718 | 2.688 | 2.635 | 2.500 | 2.550 | 2.816 | | | | 2.844 | 12.06 |
| 1,1,1-Trichloroethane(sim) | 2.301 | 2.266 | 2.319 | 1.905 | 1.965 | 2.070 | 1.994 | 1.963 | 2.190 | | | | 2.108 | 7.70 |
| Benzene(sim) | 2.933 | 2.571 | 2.469 | 2.181 | 2.120 | 2.070 | 2.190 | 2.085 | | | | | 2.327 | 13.15 |
| Carbon Tetrachloride(sim) | 2.708 | 2.879 | 2.414 | 2.458 | 2.293 | 2.249 | 2.204 | 2.200 | 2.486 | | | | 2.432 | 9.62 |
| 1,1-Dichloroethene(sim) | 2.188 | 1.884 | 1.789 | 1.652 | 1.619 | 1.592 | 1.556 | 1.538 | 1.715 | | | | 1.726 | 11.97 |
| Trichlorotrifluoroethane(sim) | 2.284 | 2.218 | 1.845 | 1.839 | 1.776 | 1.765 | 1.734 | 1.652 | 1.864 | | | | 1.886 | 11.52 |

(#) The maximum %RSD was not met for this compound Note: m,p-xylene TV is 2 times the TV Listed

(l) linear (q) quadratic (i) inverse conc weight (i2) inverse conc weight squared (f) force through zero

Compounds not using average response (l, li, lfi, li2, lfi2, q, qi, qfi, qi2, qfi2) display concentrations and not response factors

6B
AIR INITIAL CALIBRATION DATA

Lab Name: Phoenix Environmental Labs | Client: GC-ENV

Lab Code: Phoenix | SDG No.: GCH92051

Instrument ID: CHEM24 | Calibration Date From: 03/10/21 13:16

Heated Purge (Y/N): Y | Calibration Date Thru: 03/10/21 17:26

GC Column: | Method File: 24AIR_0310.M

Laboratory File Ids

RRF1 0310_03.D RRF2 0310_04.D RRF3 0310_05.D RRF4 0310_06.D RRF5 0310_07.D RRF6 0310_08.D
RRF7 0310_14.D RRF8 0310_09.D RRF9 0310_10.D RRF10 0310_15.D RRF11 0310_11.D RRF12 0310_12.D

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Trans-1,2-Dichloroethene(sim) | 1.725 | 1.631 | 1.561 | 1.424 | 1.393 | 1.372 | 1.407 | 1.348 | 1.537 | | | | 1.489 | 8.80 |
| 1,1-Dichloroethane(sim) | 2.178 | 2.024 | 1.869 | 1.633 | 1.550 | 1.535 | 1.521 | 1.468 | 1.640 | | | | 1.713 | 14.65 |
| Cis-1,2-Dichloroethene(sim) | 1.742 | 1.620 | 1.597 | 1.301 | 1.400 | 1.410 | 1.463 | 1.426 | 1.641 | | | | 1.511 | 9.53 |
| Chloroform(sim) | 2.570 | 2.240 | 1.862 | 1.807 | 1.826 | 1.843 | 1.856 | 1.772 | 2.013 | | | | 1.977 | 13.41 |
| 1,2-Dichloroethane(sim) | 2.092 | 1.827 | 1.708 | 1.586 | 1.569 | 1.553 | 1.518 | 1.525 | 1.726 | | | | 1.678 | 11.19 |
| 1,2-dichloropropane(sim) | 0.443 | 0.413 | 0.381 | 0.349 | 0.330 | 0.334 | 0.339 | 0.321 | 0.371 | | | | 0.365 | 11.37 |
| Bromodichloromethane(sim) | 0.802 | 0.757 | 0.793 | 0.626 | 0.637 | 0.658 | 0.633 | 0.638 | 0.741 | | | | 0.698 | 10.54 |
| Trichloroethene(sim) | 0.547 | 0.492 | 0.476 | 0.418 | 0.414 | 0.416 | 0.410 | 0.401 | 0.467 | | | | 0.449 | 11.04 |
| 1,4-Dioxane(sim) | | | 0.155 | 0.137 | 0.131 | 0.121 | 0.118 | 0.120 | 0.162 | | | | 0.135 | 13.16 |
| cis-1,3-Dichloropropene(sim) | 0.531 | 0.445 | 0.442 | 0.418 | 0.404 | 0.415 | 0.439 | 0.431 | | | | | 0.441 | 8.93 |
| 1,1,2-Trichloroethane(sim) | 0.478 | 0.378 | 0.367 | 0.381 | 0.351 | 0.341 | 0.343 | 0.333 | 0.383 | | | | 0.373 | 11.70 |
| Dibromochloromethane(sim) | 1.118 | 0.908 | 0.899 | 0.830 | 0.815 | 0.835 | 0.774 | 0.800 | 0.940 | | | | 0.880 | 11.89 |
| 1,2-Dibromoethane(EDB)(sim) | 0.813 | 0.659 | 0.629 | 0.579 | 0.551 | 0.594 | 0.590 | 0.602 | 0.696 | | | | 0.635 | 12.57 |
| Tetrachloroethene(sim) | 0.657 | 0.555 | 0.528 | 0.490 | 0.487 | 0.491 | 0.486 | 0.477 | 0.544 | 0.514 | | | 0.523 | 10.36 |
| Bromoform(sim) | 2.124 | 1.642 | 1.632 | 1.500 | 1.465 | 1.499 | 1.276 | 1.337 | 1.665 | | | | 1.571 | 15.70 |
| 1,1,1,2-Tetrachloroethane(sim) | 1.432 | 1.263 | 1.146 | 1.135 | 1.081 | 1.102 | 1.061 | 1.081 | 1.226 | | | | 1.170 | 10.23 |
| Ethylbenzene(sim) | 3.572 | 2.776 | 2.760 | 2.562 | 2.464 | 2.526 | 2.613 | 2.605 | | | | | 2.735 | 12.98 |
| m,p-Xylene(sim) | | 1.808 | 1.917 | 1.747 | 1.730 | 1.769 | 1.868 | 1.877 | 2.182 | | | | 1.862 | 7.80 |
| o-Xylene(sim) | 2.559 | 1.945 | 1.895 | 1.767 | 1.703 | 1.781 | 1.968 | 1.964 | | | | | 1.948 | 13.68 |
| 1,1,2,2-Tetrachloroethane(sim) | 2.297 | 1.884 | 1.707 | 1.627 | 1.488 | 1.622 | 1.566 | 1.587 | 1.792 | | | | 1.730 | 14.13 |
| Benzyl chloride(sim) | 1.473 | 1.315 | 1.136 | 1.095 | 1.150 | 1.424 | 1.308 | 1.633 | 2.084 | | | | 1.402 | 22.12 |
| 1,3-Dichlorobenzene(sim) | 2.381 | 1.755 | 1.377 | 1.364 | 1.379 | 1.494 | 1.436 | 1.537 | 1.850 | | | | 1.619 | 20.60 |
| 1,4-Dichlorobenzene(sim) | 2.084 | 1.637 | 1.490 | 1.386 | 1.371 | 1.537 | 1.496 | 1.598 | 1.977 | | | | 1.620 | 15.42 |
| sec-Butylbenzene(sim) | | 2.873 | 2.823 | 2.572 | 2.511 | 2.883 | 3.023 | 3.179 | 3.748 | | | | 2.951 | 13.16 |
| 4-Isopropyltoluene(sim) | | 2.451 | 2.192 | 2.048 | 2.075 | 2.446 | 2.432 | 2.742 | 3.458 | | | | 2.481 | 18.43 |

(#) The maximum %RSD was not met for this compound Note: m,p-xylene TV is 2 times the TV Listed

(l) linear (q) quadratic (i) inverse conc weight (i2) inverse conc weight squared (f) force through zero

Compounds not using average response (l, li, lfi, li2, lfi2, q, qi, qfi, qi2, qfi2) display concentrations and not response factors

6B
AIR INITIAL CALIBRATION DATA

Lab Name: Phoenix Environmental Labs | Client: GC-ENV

Lab Code: Phoenix | SDG No.: GCH92051

Instrument ID: CHEM24 | Calibration Date From: 03/10/21 13:16

Heated Purge (Y/N): Y | Calibration Date Thru: 03/10/21 17:26

GC Column: | Method File: 24AIR_0310.M

Laboratory File Ids

RRF1 0310_03.D RRF2 0310_04.D RRF3 0310_05.D RRF4 0310_06.D RRF5 0310_07.D RRF6 0310_08.D
RRF7 0310_14.D RRF8 0310_09.D RRF9 0310_10.D RRF10 0310_15.D RRF11 0310_11.D RRF12 0310_12.D

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dichlorobenzene(sim) | 1.875 | 1.187 | 1.022 | 1.114 | 1.037 | 1.211 | 1.102 | 1.250 | 1.472 | | | | 1.252 | 21.56 |
| n-Butylbenzene(sim) | | 1.701 | 1.436 | 1.417 | 1.447 | 1.855 | 1.701 | 2.006 | 2.631 | | | | 1.774 | 22.89 |
| 1,2,4-Trichlorobenzene(sim) qfi | 0.027 | 0.045 | 0.051 | 0.106 | 0.159 | 0.621 | 0.860 | 2.537 | | | | | Coef R2 | 0.98 |
| Hexachlorobutadiene(sim) | 1.071 | 0.841 | 0.693 | 0.583 | 0.548 | 0.613 | 0.538 | 0.593 | 0.663 | | | | 0.683 | 25.27 |
| % Bromofluorobenzene | | | | 1.391 | 1.361 | 1.377 | 1.370 | 1.389 | 1.402 | 1.382 | 1.440 | 1.370 | 1.387 | 1.71 |

(#) The maximum %RSD was not met for this compound Note: m,p-xylene TV is 2 times the TV Listed

(l) linear (q) quadratic (i) inverse conc weight (i2) inverse conc weight squared (f) force through zero

Compounds not using average response (l, li, lfi, li2, lfi2, q, qi, qfi, qi2, qfi2) display concentrations and not response factors

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM24\03MAR\10\
Data File : 0310_03.D
Acq On : 10 Mar 2021 11:22 am
Operator : Keith
Client ID : ICAL 0.02
Lab ID : 0.02
ALS Vial : 47 Sample Multiplier: 1

Quant Time: Mar 12 11:30:24 2021
Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 12 10:25:01 2021
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Bromochloromethane | 5.260 | 130 | 232017 | 10.000 | ng | 0.00 |
| 36) 1,4-Difluorobenzene | 7.213 | 114 | 722937 | 10.000 | ng | -0.01 |
| 53) Chlorobenzene-d5 | 10.811 | 82 | 320823 | 10.000 | ng | 0.00 |
| 80) Bromochloromethane(sim) | 5.263 | 130 | 239682 | 10.000 | ng | # 0.00 |
| 95) 1,4-Difluorobenzene(sim) | 7.213 | 114 | 722937 | 10.000 | ng | -0.01 |
| 105) Chlorobenzene-d5(sim) | 10.811 | 82 | 320823 | 10.000 | ng | 0.00 |
| System Monitoring Compounds | | | | | | |
| 62) % Bromofluorobenzene | 12.291 | 95 | 430474 | 9.638 | ppbv | 0.00 |
| Spiked Amount 10.000 | Range 70 - 130 | | Recovery = | 96.40% | | |
| Target Compounds | | | | | | Qvalue |
| 2) Propylene | 1.471 | 41 | 1128 | 0.049 | ppbv# | 69 |
| 3) Dichlorodifluoromethane | 1.499 | 85 | 1143 | 0.027 | ppbv# | 98 |
| 4) Chloromethane | 1.636 | 50 | 958 | 0.030 | ppbv | 76 |
| 5) 1,2-Dichlorotetrafluor... | 1.602 | 135 | 1063 | 0.028 | ppbv | 91 |
| 6) Vinyl Chloride | 1.704 | 62 | 448 | 0.023 | ppbv | 99 |
| 7) 1,3-Butadiene | 1.732 | 54 | 472 | 0.028 | ppbv# | 71 |
| 8) Bromomethane | 1.944 | 94 | 675 | 0.036 | ppbv# | 92 |
| 9) Chloroethane | 2.054 | 64 | 297 | 0.039 | ppbv# | 66 |
| 10) Ethanol | 2.615 | 45 | 1475 | 0.143 | ppbv# | 86 |
| 12) Acetone | 3.231 | 43 | 4995 | 0.084 | ppbv | 99 |
| 13) Trichlorofluoromethane | 2.170 | 101 | 1670 | 0.028 | ppbv# | 83 |
| 14) Isopropylalcohol | 3.210 | 45 | 3142 | 0.059 | ppbv# | 49 |
| 15) Acrylonitrile | 4.146 | 53 | 155 | 0.010 | ppbv# | 2 |
| 16) 1,1-Dichloroethene | 2.601 | 61 | 994 | 0.028 | ppbv# | 83 |
| 17) Methylene Chloride | 3.169 | 49 | 1343 | 0.036 | ppbv | 94 |
| 20) Carbon Disulfide | 2.608 | 76 | 1166 | 0.025 | ppbv# | 67 |
| 21) Trichlorotrifluoroethane | 2.656 | 101 | 565 | 0.013 | ppbv# | 1 |
| 22) Trans-1,2-Dichloroethene | 3.368 | 61 | 673 | 0.022 | ppbv# | 89 |
| 23) 1,1-Dichloroethane | 4.106 | 63 | 929 | 0.025 | ppbv# | 57 |
| 24) Methyl tert-butyl ethe... | 3.586 | 73 | 1147 | 0.027 | ppbv# | 73 |
| 25) Methyl Ethyl Ketone | 5.944 | 43 | 2401 | 0.039 | ppbv# | 80 |
| 26) Cis-1,2-Dichloroethene | 4.947 | 61 | 664 | 0.020 | ppbv# | 83 |
| 27) Hexane | 3.511 | 57 | 798 | 0.019 | ppbv# | 30 |
| 28) Chloroform | 5.469 | 83 | 1027 | 0.023 | ppbv# | 83 |
| 29) Ethyl acetate | 5.764 | 43 | 2377 | 0.032 | ppbv# | 79 |
| 30) Tetrahydrofuran | 5.635 | 41 | 51 | 0.003 | ppbv# | 39 |
| 31) 1,2-Dichloroethane | 6.555 | 62 | 887 | 0.025 | ppbv# | 86 |
| 32) 1,1,1-Trichloroethane | 5.721 | 97 | 1103 | 0.023 | ppbv | 88 |
| 33) Benzene | 6.288 | 78 | 1451 | 0.030 | ppbv | 96 |
| 34) Carbon Tetrachloride | 5.635 | 117 | 1404 | 0.025 | ppbv | 87 |
| 35) Cyclohexane | 5.303 | 56 | 625 | 0.019 | ppbv# | 42 |
| 37) 1,2-dichloropropane | 7.788 | 63 | 722 | 0.032 | ppbv# | 36 |
| 38) Bromodichloromethane | 7.939 | 83 | 1159 | 0.024 | ppbv | 94 |
| 39) Trichloroethene | 7.158 | 130 | 593 | 0.020 | ppbv# | 35 |
| 41) 1,4-Dioxane | 8.218 | 88 | 262 | 0.027 | ppbv# | 80 |
| 43) Heptane | 6.418 | 43 | 1457 | 0.028 | ppbv# | 78 |
| 44) cis-1,3-Dichloropropene | 8.731 | 75 | 724 | 0.024 | ppbv | 75 |
| 45) 4-Methyl-2-pentanone(M... | 9.539 | 43 | 2143 | 0.030 | ppbv# | 85 |
| 46) trans-1,3-Dichloropropene | 9.561 | 75 | 794 | 0.026 | ppbv# | 78 |
| 47) 1,1,2-Trichloroethane | 9.727 | 97 | 646 | 0.025 | ppbv | 97 |
| 48) Toluene | 9.034 | 91 | 1483 | 0.025 | ppbv# | 90 |
| 49) Dibromochloromethane | 9.936 | 129 | 1678 | 0.028 | ppbv# | 96 |
| 50) 2-Hexanone(MBK) | 10.550 | 43 | 1464 | 0.023 | ppbv# | 92 |
| 51) 1,2-Dibromoethane(EDB) | 10.160 | 107 | 1090 | 0.024 | ppbv | 86 |

Data Path : H:\AIR2021\CHEM24\03MAR\10\
Data File : 0310_03.D
Acq On : 10 Mar 2021 11:22 am
Operator : Keith
Client ID : ICAL 0.02
Lab ID : 0.02
ALS Vial : 47 Sample Multiplier: 1

Quant Time: Mar 12 11:30:24 2021
Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 12 10:25:01 2021
Response via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 52) | Tetrachloroethene | 9.503 | 166 | 634 | 0.018 | ppbv# | 58 |
| 54) | 1,1,1,2-Tetrachloroethane | 10.941 | 131 | 919 | 0.025 | ppbv# | 76 |
| 55) | Chlorobenzene | 10.831 | 112 | 1620 | 0.029 | ppbv# | 1 |
| 56) | Ethylbenzene | 10.921 | 91 | 2324 | 0.029 | ppbv | 87 |
| 57) | m,p-Xylene | 11.099 | 91 | 3156 | 0.052 | ppbv | 96 |
| 58) | Bromoform | 11.648 | 173 | 1139 | 0.023 | ppbv# | 84 |
| 59) | Styrene | 11.662 | 104 | 901 | 0.021 | ppbv# | 60 |
| 60) | 1,1,2,2-Tetrachloroethane | 12.577 | 83 | 1474 | 0.028 | ppbv | 95 |
| 61) | o-Xylene | 11.593 | 91 | 1568 | 0.026 | ppbv | 90 |
| 64) | Isopropylbenzene | 11.999 | 105 | 1996 | 0.024 | ppbv# | 94 |
| 66) | 4-Ethyltoluene | 12.648 | 105 | 2387 | 0.027 | ppbv# | 97 |
| 67) | 1,3,5-Trimethylbenzene | 12.759 | 105 | 1877 | 0.026 | ppbv# | 92 |
| 68) | 1,2,4-Trimethylbenzene | 13.219 | 105 | 1587 | 0.023 | ppbv# | 91 |
| 70) | Benzyl chloride | 13.888 | 91 | 1011 | 0.020 | ppbv# | 87 |
| 71) | 1,3-Dichlorobenzene | 13.531 | 146 | 1528 | 0.030 | ppbv | 87 |
| 72) | 1,4-Dichlorobenzene | 13.635 | 146 | 1101 | 0.023 | ppbv | 95 |
| 73) | sec-Butylbenzene | 13.349 | 105 | 2361 | 0.023 | ppbv# | 88 |
| 74) | 4-Isopropyltoluene | 13.531 | 119 | 1893 | 0.023 | ppbv | 97 |
| 75) | 1,2-Dichlorobenzene | 14.024 | 146 | 1203 | 0.030 | ppbv | 86 |
| 76) | n-Butylbenzene | 13.946 | 91 | 1222 | 0.020 | ppbv# | 89 |
| 79) | Hexachlorobutadiene | 15.219 | 225 | 669 | 0.036 | ppbv | 90 |
| 81] | 1,2-Dichlorotetrafluor... | 1.604 | 135 | 1066m | 0.026 | ppbv | 91 |
| 82] | Vinyl Chloride(sim) | 1.707 | 62 | 580 | 0.026 | ppbv | 98 |
| 83] | Bromomethane(sim) | 1.947 | 94 | 552m | 0.025 | ppbv | 74 |
| 84] | Trichlorofluoromethane... | 2.173 | 101 | 1725 | 0.025 | ppbv | 99 |
| 85] | 1,1,1-Trichloroethane(... | 5.721 | 97 | 1103 | 0.022 | ppbv# | 83 |
| 86] | Benzene(sim) | 6.278 | 78 | 1406 | 0.025 | ppbv | 93 |
| 87] | Carbon Tetrachloride(sim) | 5.637 | 117 | 1298m | 0.022 | ppbv | 54 |
| 88] | 1,1-Dichloroethene(sim) | 2.604 | 61 | 1049 | 0.025 | ppbv | 98 |
| 89] | Trichlorotrifluoroetha... | 2.673 | 101 | 1095m | 0.024 | ppbv | 1 |
| 90] | Trans-1,2-Dichloroethe... | 3.364 | 61 | 827 | 0.023 | ppbv | 90 |
| 91] | 1,1-Dichloroethane(sim) | 4.114 | 63 | 1044m | 0.025 | ppbv | 57 |
| 92] | Cis-1,2-Dichloroethene... | 4.950 | 61 | 835 | 0.023 | ppbv | 95 |
| 93] | Chloroform(sim) | 5.464 | 83 | 1232m | 0.026 | ppbv | 81 |
| 94] | 1,2-Dichloroethane(sim) | 6.558 | 62 | 1003 | 0.025 | ppbv | 99 |
| 96] | 1,2-dichloropropane(sim) | 7.791 | 63 | 641 | 0.024 | ppbv# | 75 |
| 97] | Bromodichloromethane(sim) | 7.939 | 83 | 1159 | 0.023 | ppbv | 94 |
| 98] | Trichloroethene(sim) | 7.154 | 130 | 791 | 0.024 | ppbv | 99 |
| 99] | 1,4-Dioxane(sim) | 8.221 | 88 | 331m | 0.034 | ppbv | 80 |
| 100] | cis-1,3-Dichloropropen... | 8.741 | 75 | 768 | 0.024 | ppbv# | 89 |
| 101] | 1,1,2-Trichloroethane(... | 9.730 | 97 | 691m | 0.026 | ppbv | 97 |
| 102] | Dibromochloromethane(sim) | 9.939 | 129 | 1616 | 0.025 | ppbv | 99 |
| 103] | 1,2-Dibromoethane(EDB)... | 10.156 | 107 | 1175m | 0.026 | ppbv | 98 |
| 104] | Tetrachloroethene(sim) | 9.506 | 166 | 950 | 0.025 | ppbv | 98 |
| 106] | Bromoform(sim) | 11.651 | 173 | 1363 | 0.040 | ppbv | 100 |
| 107] | 1,1,1,2-Tetrachloroeth... | 10.941 | 131 | 919 | 0.024 | ppbv | 91 |
| 108] | Ethylbenzene(sim) | 10.917 | 91 | 2292 | 0.026 | ppb # | 95 |
| 109] | m,p-Xylene(sim) | 11.099 | 91 | 3156 | 0.053 | ppbv# | 93 |
| 110] | o-Xylene(sim) | 11.603 | 91 | 1642 | 0.026 | ppb | 96 |
| 111] | 1,1,2,2-Tetrachloroeth... | 12.577 | 83 | 1474 | 0.027 | ppbv# | 93 |
| 114] | Benzyl chloride(sim) | 13.884 | 91 | 945 | 0.021 | ppbv | 95 |
| 115] | 1,3-Dichlorobenzene(sim) | 13.531 | 146 | 1528 | 0.029 | ppbv | 87 |
| 116] | 1,4-Dichlorobenzene(sim) | 13.638 | 146 | 1337 | 0.026 | ppbv | 99 |
| 117] | sec-Butylbenzene(sim) | 13.349 | 105 | 2361 | 0.025 | ppbv | 88 |
| 118] | 4-Isopropyltoluene(sim) | 13.534 | 119 | 2011 | 0.025 | ppbv | 99 |
| 119] | 1,2-Dichlorobenzene(sim) | 14.024 | 146 | 1203 | 0.030 | ppbv | 86 |
| 120] | n-Butylbenzene(sim) | 13.949 | 91 | 1349 | 0.024 | ppbv | 97 |

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM24\03MAR\10\
Data File : 0310_03.D
Acq On : 10 Mar 2021 11:22 am
Operator : Keith
Client ID : ICAL 0.02
Lab ID : 0.02
ALS Vial : 47 Sample Multiplier: 1

Quant Time: Mar 12 11:30:24 2021
Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 12 10:25:01 2021
Response via : Initial Calibration

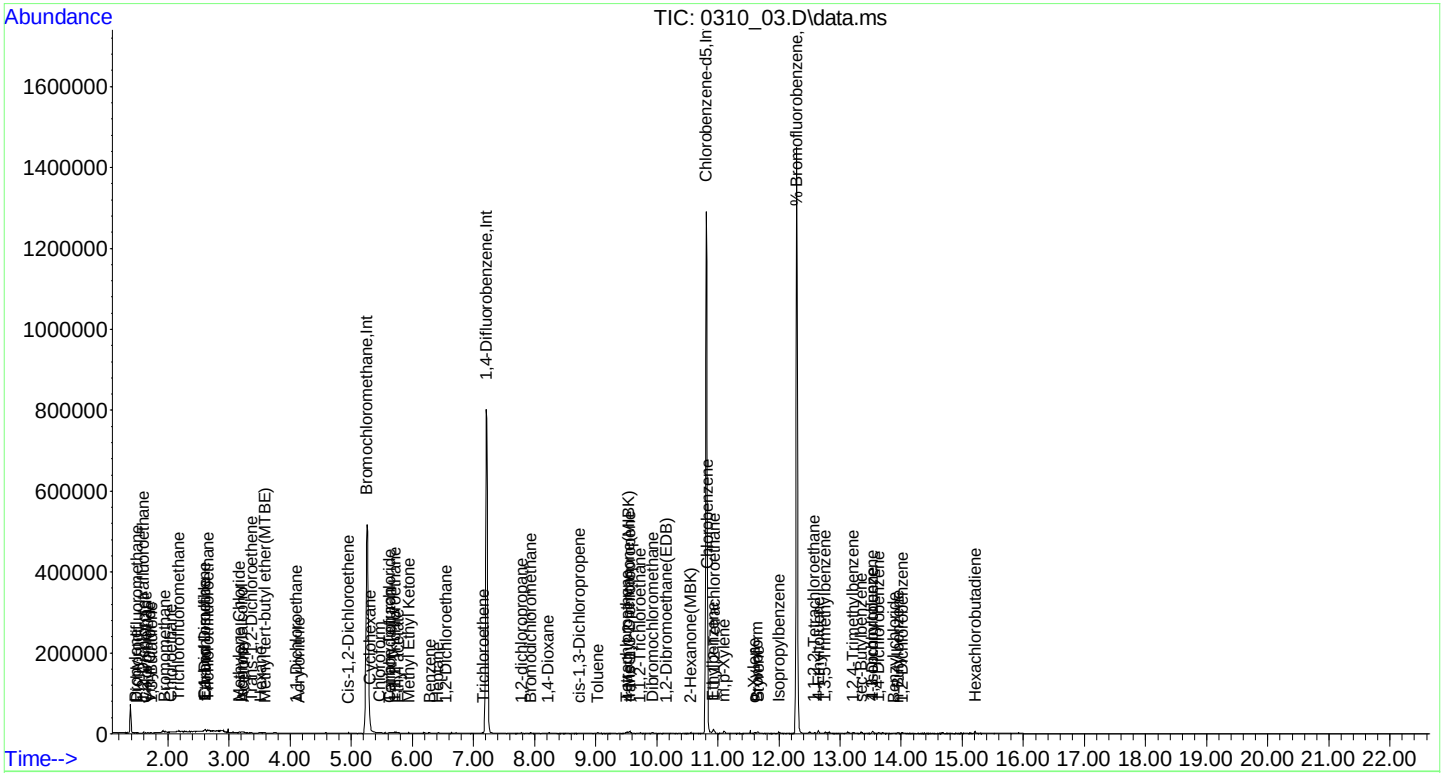
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 122] Hexachlorobutadiene(sim) | 15.212 | 225 | 687 | 0.031 | ppbv | 98 |

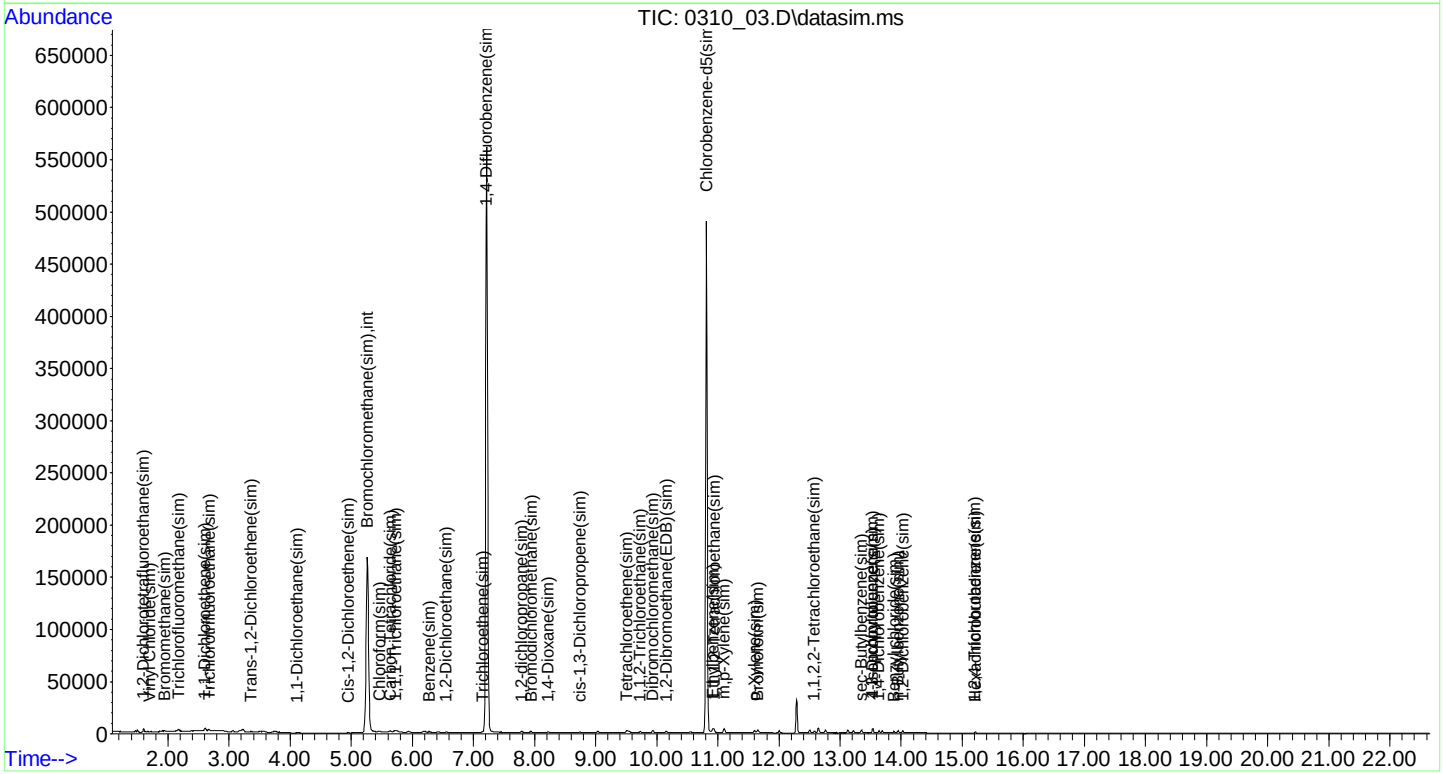
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM24\03MAR\10\
Data File : 0310_03.D
Acq On : 10 Mar 2021 11:22 am
Operator : Keith
Client ID : ICAL 0.02
Lab ID : 0.02
ALS Vial : 47 Sample Multiplier: 1

Quant Time: Mar 12 11:30:24 2021
Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 12 10:25:01 2021
Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM24\03MAR\10\
Data File : 0310_04.D
Acq On : 10 Mar 2021 11:50 am
Operator : Keith
Client ID : ICAL 0.035
Lab ID : 0.035
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Mar 12 11:30:58 2021
Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 12 10:28:02 2021
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Bromochloromethane | 5.260 | 130 | 233303 | 10.000 | ng | | 0.00 |
| 36) 1,4-Difluorobenzene | 7.220 | 114 | 720639 | 10.000 | ng | | 0.00 |
| 53) Chlorobenzene-d5 | 10.811 | 82 | 325341 | 10.000 | ng | | 0.00 |
| 80) Bromochloromethane(sim) | 5.263 | 130 | 241554 | 10.000 | ng | # | 0.00 |
| 95) 1,4-Difluorobenzene(sim) | 7.220 | 114 | 720639 | 10.000 | ng | | 0.00 |
| 105) Chlorobenzene-d5(sim) | 10.811 | 82 | 325341 | 10.000 | ng | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 62) % Bromofluorobenzene | 12.291 | 95 | 433362 | 9.568 | ppbv | | 0.00 |
| Spiked Amount 10.000 | Range 70 - 130 | | Recovery = | 95.70% | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) Propylene | 1.478 | 41 | 1738 | 0.075 | ppbv# | | 77 |
| 3) Dichlorodifluoromethane | 1.499 | 85 | 1730 | 0.041 | ppbv# | | 95 |
| 4) Chloromethane | 1.636 | 50 | 1647 | 0.051 | ppbv | | 98 |
| 5) 1,2-Dichlorotetrafluor... | 1.602 | 135 | 1466 | 0.039 | ppbv# | | 86 |
| 6) Vinyl Chloride | 1.704 | 62 | 803 | 0.041 | ppbv | | 81 |
| 7) 1,3-Butadiene | 1.725 | 54 | 572 | 0.034 | ppbv# | | 1 |
| 8) Bromomethane | 1.944 | 94 | 965 | 0.051 | ppbv | | 92 |
| 9) Chloroethane | 2.061 | 64 | 368 | 0.048 | ppbv# | | 76 |
| 10) Ethanol | 2.608 | 45 | 1247 | 0.120 | ppbv# | | 43 |
| 12) Acetone | 3.231 | 43 | 4413 | 0.074 | ppbv# | | 90 |
| 13) Trichlorofluoromethane | 2.170 | 101 | 2521 | 0.042 | ppbv | | 97 |
| 14) Isopropylalcohol | 3.203 | 45 | 3169 | 0.060 | ppbv# | | 68 |
| 15) Acrylonitrile | 4.141 | 53 | 562 | 0.035 | ppbv# | | 79 |
| 16) 1,1-Dichloroethene | 2.602 | 61 | 1632 | 0.045 | ppbv | | 98 |
| 17) Methylene Chloride | 3.162 | 49 | 2023 | 0.055 | ppbv | | 98 |
| 20) Carbon Disulfide | 2.615 | 76 | 1779 | 0.039 | ppbv | | 99 |
| 21) Trichlorotrifluoroethane | 2.670 | 101 | 1791 | 0.042 | ppbv | | 94 |
| 22) Trans-1,2-Dichloroethene | 3.368 | 61 | 1228 | 0.039 | ppbv# | | 94 |
| 23) 1,1-Dichloroethane | 4.111 | 63 | 1394 | 0.038 | ppbv | | 90 |
| 24) Methyl tert-butyl ethe... | 3.580 | 73 | 1740 | 0.041 | ppbv# | | 20 |
| 25) Methyl Ethyl Ketone | 5.880 | 43 | 182 | 0.003 | ppbv# | | 76 |
| 26) Cis-1,2-Dichloroethene | 4.952 | 61 | 1201 | 0.036 | ppbv# | | 82 |
| 27) Hexane | 3.511 | 57 | 1358 | 0.033 | ppbv# | | 79 |
| 28) Chloroform | 5.462 | 83 | 1908 | 0.043 | ppbv# | | 73 |
| 29) Ethyl acetate | 5.764 | 43 | 3134 | 0.042 | ppbv# | | 93 |
| 30) Tetrahydrofuran | 5.663 | 41 | 55 | 0.003 | ppbv# | | 39 |
| 31) 1,2-Dichloroethane | 6.555 | 62 | 1543 | 0.044 | ppbv# | | 74 |
| 32) 1,1,1-Trichloroethane | 5.721 | 97 | 1965 | 0.040 | ppbv | | 98 |
| 33) Benzene | 6.288 | 78 | 2073 | 0.043 | ppbv# | | 85 |
| 34) Carbon Tetrachloride | 5.642 | 117 | 2148 | 0.039 | ppbv | | 95 |
| 35) Cyclohexane | 5.303 | 56 | 1152 | 0.035 | ppbv | | 97 |
| 37) 1,2-dichloropropane | 7.795 | 63 | 922 | 0.041 | ppbv# | | 71 |
| 38) Bromodichloromethane | 7.939 | 83 | 1910 | 0.040 | ppbv | | 96 |
| 39) Trichloroethene | 7.158 | 130 | 1089 | 0.038 | ppbv | | 97 |
| 41) 1,4-Dioxane | 8.218 | 88 | 229 | 0.024 | ppbv# | | 77 |
| 43) Heptane | 6.412 | 43 | 2242 | 0.044 | ppbv# | | 75 |
| 44) cis-1,3-Dichloropropene | 8.738 | 75 | 1022 | 0.034 | ppbv | | 87 |
| 45) 4-Methyl-2-pentanone(M... | 9.539 | 43 | 2746 | 0.039 | ppbv# | | 94 |
| 46) trans-1,3-Dichloropropene | 9.554 | 75 | 971 | 0.032 | ppbv# | | 90 |
| 47) 1,1,2-Trichloroethane | 9.727 | 97 | 953 | 0.037 | ppbv | | 92 |
| 48) Toluene | 9.034 | 91 | 2220 | 0.038 | ppbv | | 91 |
| 49) Dibromochloromethane | 9.936 | 129 | 2079 | 0.035 | ppbv | | 90 |
| 50) 2-Hexanone(MBK) | 10.550 | 43 | 2202 | 0.034 | ppbv# | | 85 |
| 51) 1,2-Dibromoethane(EDB) | 10.153 | 107 | 1662 | 0.037 | ppbv | | 92 |

Data Path : H:\AIR2021\CHEM24\03MAR\10\
Data File : 0310_04.D
Acq On : 10 Mar 2021 11:50 am
Operator : Keith
Client ID : ICAL 0.035
Lab ID : 0.035
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Mar 12 11:30:58 2021
Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 12 10:28:02 2021
Response via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 52) | Tetrachloroethene | 9.510 | 166 | 1289 | 0.037 | ppbv | 97 |
| 54) | 1,1,1,2-Tetrachloroethane | 10.934 | 131 | 1438 | 0.039 | ppbv# | 94 |
| 55) | Chlorobenzene | 10.824 | 112 | 2527 | 0.045 | ppbv# | 1 |
| 56) | Ethylbenzene | 10.921 | 91 | 2915 | 0.036 | ppbv | 92 |
| 57) | m,p-Xylene | 11.106 | 91 | 4118 | 0.067 | ppbv | 98 |
| 58) | Bromoform | 11.648 | 173 | 1880 | 0.038 | ppbv | 96 |
| 59) | Styrene | 11.668 | 104 | 1482 | 0.034 | ppbv | 97 |
| 60) | 1,1,2,2-Tetrachloroethane | 12.577 | 83 | 2145 | 0.040 | ppbv | 87 |
| 61) | o-Xylene | 11.607 | 91 | 2006 | 0.033 | ppbv | 92 |
| 64) | Isopropylbenzene | 12.006 | 105 | 2609 | 0.030 | ppbv# | 92 |
| 66) | 4-Ethyltoluene | 12.648 | 105 | 3116 | 0.034 | ppbv | 98 |
| 67) | 1,3,5-Trimethylbenzene | 12.759 | 105 | 2496 | 0.034 | ppbv | 99 |
| 68) | 1,2,4-Trimethylbenzene | 13.219 | 105 | 2170 | 0.031 | ppbv# | 92 |
| 70) | Benzyl chloride | 13.881 | 91 | 1504 | 0.030 | ppbv# | 86 |
| 71) | 1,3-Dichlorobenzene | 13.537 | 146 | 1998 | 0.039 | ppbv | 99 |
| 72) | 1,4-Dichlorobenzene | 13.635 | 146 | 1786 | 0.037 | ppbv | 99 |
| 73) | sec-Butylbenzene | 13.343 | 105 | 3271 | 0.032 | ppbv# | 93 |
| 74) | 4-Isopropyltoluene | 13.531 | 119 | 2565 | 0.031 | ppbv | 97 |
| 75) | 1,2-Dichlorobenzene | 14.024 | 146 | 1427 | 0.035 | ppbv | 92 |
| 76) | n-Butylbenzene | 13.946 | 91 | 1765 | 0.028 | ppbv | 97 |
| 77) | 1,2,4-Trichlorobenzene | 15.199 | 180 | 217 | 0.017 | ppbv# | 52 |
| 79) | Hexachlorobutadiene | 15.209 | 225 | 804 | 0.043 | ppbv | 96 |
| 81] | 1,2-Dichlorotetrafluor... | 1.602 | 135 | 1466 | 0.035 | ppbv# | 86 |
| 82] | Vinyl Chloride(sim) | 1.707 | 62 | 839 | 0.038 | ppbv | 95 |
| 83] | Bromomethane(sim) | 1.947 | 94 | 854m | 0.039 | ppbv | 87 |
| 84] | Trichlorofluoromethane... | 2.173 | 101 | 2597 | 0.038 | ppbv | 98 |
| 85] | 1,1,1-Trichloroethane(... | 5.721 | 97 | 1916 | 0.038 | ppbv# | 97 |
| 86] | Benzene(sim) | 6.284 | 78 | 2174 | 0.039 | ppbv# | 92 |
| 87] | Carbon Tetrachloride(sim) | 5.637 | 117 | 2434m | 0.041 | ppbv | 63 |
| 88] | 1,1-Dichloroethene(sim) | 2.604 | 61 | 1593 | 0.038 | ppbv | 97 |
| 89] | Trichlorotrifluoroetha... | 2.666 | 101 | 1875m | 0.041 | ppbv | 86 |
| 90] | Trans-1,2-Dichloroethe... | 3.364 | 61 | 1379 | 0.038 | ppbv | 99 |
| 91] | 1,1-Dichloroethane(sim) | 4.114 | 63 | 1711m | 0.041 | ppbv | 90 |
| 92] | Cis-1,2-Dichloroethene... | 4.955 | 61 | 1370 | 0.038 | ppbv | 96 |
| 93] | Chloroform(sim) | 5.464 | 83 | 1894m | 0.040 | ppbv | 79 |
| 94] | 1,2-Dichloroethane(sim) | 6.558 | 62 | 1545 | 0.038 | ppbv | 97 |
| 96] | 1,2-dichloropropane(sim) | 7.791 | 63 | 1041 | 0.040 | ppbv | 93 |
| 97] | Bromodichloromethane(sim) | 7.939 | 83 | 1910 | 0.038 | ppbv | 96 |
| 98] | Trichloroethene(sim) | 7.154 | 130 | 1241 | 0.038 | ppbv | 96 |
| 99] | 1,4-Dioxane(sim) | 8.214 | 88 | 373m | 0.038 | ppbv | 77 |
| 100] | cis-1,3-Dichloropropen... | 8.741 | 75 | 1122 | 0.035 | ppbv | 95 |
| 101] | 1,1,2-Trichloroethane(... | 9.727 | 97 | 953 | 0.035 | ppbv | 92 |
| 102] | Dibromochloromethane(sim) | 9.932 | 129 | 2289 | 0.036 | ppbv | 98 |
| 103] | 1,2-Dibromoethane(EDB)... | 10.153 | 107 | 1662 | 0.036 | ppbv | 91 |
| 104] | Tetrachloroethene(sim) | 9.506 | 166 | 1400 | 0.037 | ppbv | 99 |
| 106] | Bromoform(sim) | 11.644 | 173 | 1870 | 0.054 | ppbv | 100 |
| 107] | 1,1,1,2-Tetrachloroeth... | 10.934 | 131 | 1438 | 0.038 | ppbv | 93 |
| 108] | Ethylbenzene(sim) | 10.917 | 91 | 3161 | 0.036 | ppb # | 98 |
| 109] | m,p-Xylene(sim) | 11.106 | 91 | 4118 | 0.068 | ppbv# | 95 |
| 110] | o-Xylene(sim) | 11.603 | 91 | 2215 | 0.035 | ppb # | 97 |
| 111] | 1,1,2,2-Tetrachloroeth... | 12.577 | 83 | 2145 | 0.038 | ppbv | 82 |
| 114] | Benzyl chloride(sim) | 13.884 | 91 | 1497 | 0.033 | ppbv | 97 |
| 115] | 1,3-Dichlorobenzene(sim) | 13.537 | 146 | 1998 | 0.038 | ppbv | 93 |
| 116] | 1,4-Dichlorobenzene(sim) | 13.638 | 146 | 1864 | 0.035 | ppbv | 99 |
| 117] | sec-Butylbenzene(sim) | 13.343 | 105 | 3271 | 0.034 | ppbv | 93 |
| 118] | 4-Isopropyltoluene(sim) | 13.534 | 119 | 2791 | 0.035 | ppbv | 97 |
| 119] | 1,2-Dichlorobenzene(sim) | 14.024 | 146 | 1352 | 0.033 | ppbv | 87 |

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM24\03MAR\10\
Data File : 0310_04.D
Acq On : 10 Mar 2021 11:50 am
Operator : Keith
Client ID : ICAL 0.035
Lab ID : 0.035
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Mar 12 11:30:58 2021
Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 12 10:28:02 2021
Response via : Initial Calibration

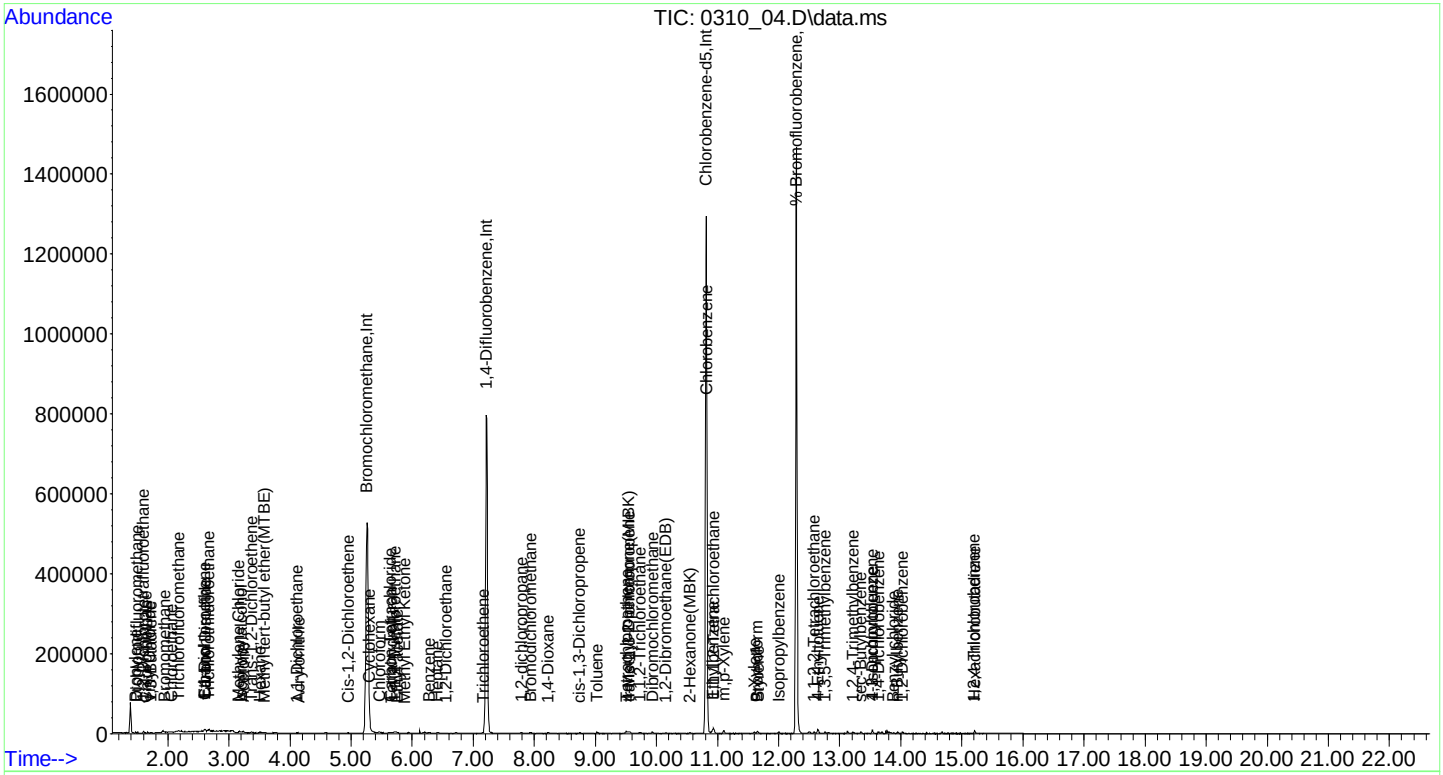
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 120] n-Butylbenzene(sim) | 13.949 | 91 | 1937 | 0.034 | ppbv | 96 |
| 122] Hexachlorobutadiene(sim) | 15.212 | 225 | 958 | 0.043 | ppbv | 98 |

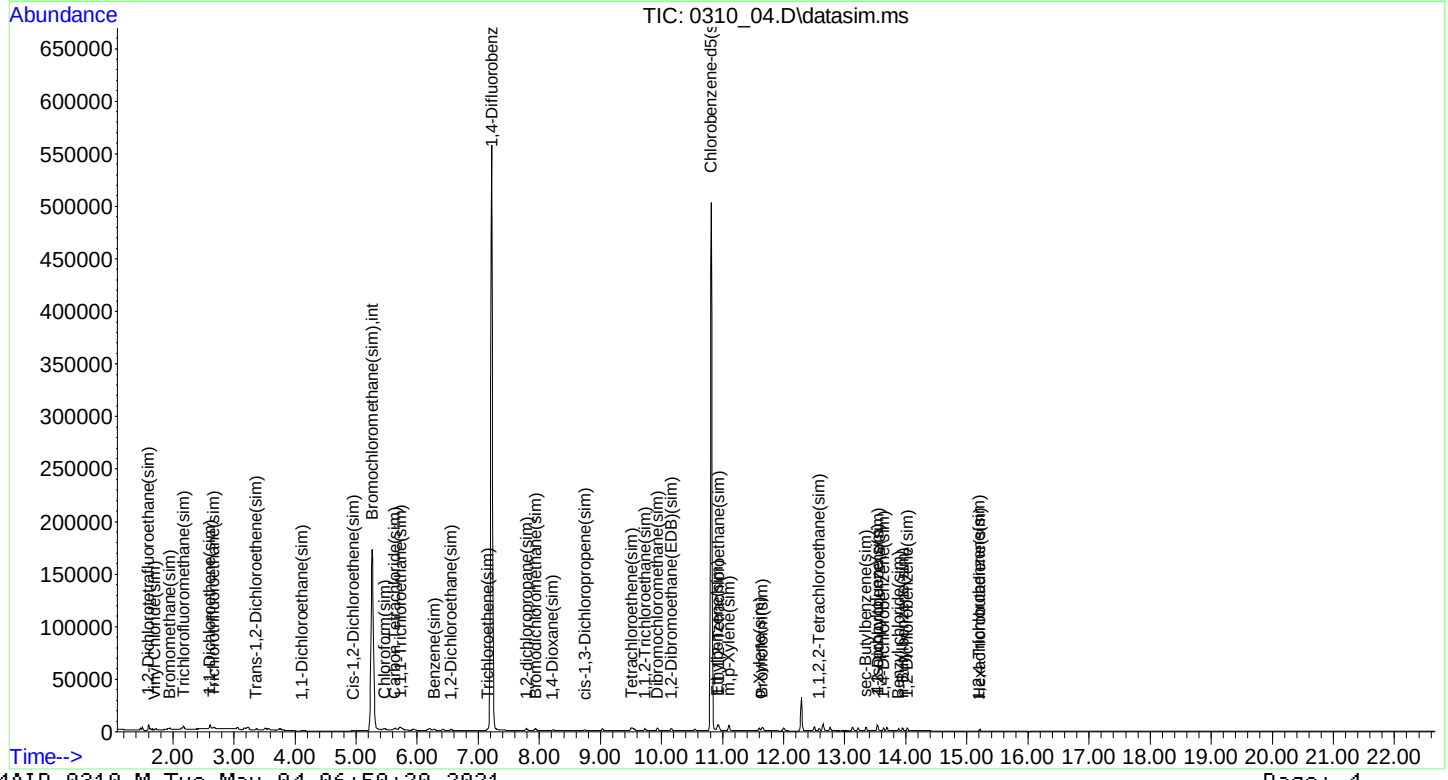
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM24\03MAR\10\
Data File : 0310_04.D
Acq On : 10 Mar 2021 11:50 am
Operator : Keith
Client ID : ICAL 0.035
Lab ID : 0.035
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Mar 12 11:30:58 2021
Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 12 10:28:02 2021
Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM24\03MAR\10\
Data File : 0310_05.D
Acq On : 10 Mar 2021 12:18 pm
Operator : Keith
Client ID : ICAL 0.05
Lab ID : 0.05
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Mar 12 11:31:22 2021
Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 12 10:28:02 2021
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Bromochloromethane | 5.260 | 130 | 230265 | 10.000 | ng | 0.00 |
| 36) 1,4-Difluorobenzene | 7.213 | 114 | 722772 | 10.000 | ng | -0.01 |
| 53) Chlorobenzene-d5 | 10.811 | 82 | 323127 | 10.000 | ng | 0.00 |
| 80) Bromochloromethane(sim) | 5.263 | 130 | 241998 | 10.000 | ng | # 0.00 |
| 95) 1,4-Difluorobenzene(sim) | 7.213 | 114 | 722772 | 10.000 | ng | -0.01 |
| 105) Chlorobenzene-d5(sim) | 10.811 | 82 | 323127 | 10.000 | ng | 0.00 |
| System Monitoring Compounds | | | | | | |
| 62) % Bromofluorobenzene | 12.291 | 95 | 429615 | 9.550 | ppbv | 0.00 |
| Spiked Amount 10.000 | Range 70 - 130 | | Recovery = 95.50% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Propylene | 1.471 | 41 | 1798 | 0.078 | ppbv | 93 |
| 3) Dichlorodifluoromethane | 1.499 | 85 | 2893 | 0.069 | ppbv | 96 |
| 4) Chloromethane | 1.629 | 50 | 1816 | 0.057 | ppbv | 82 |
| 5) 1,2-Dichlorotetrafluor... | 1.602 | 135 | 2283 | 0.062 | ppbv | 94 |
| 6) Vinyl Chloride | 1.704 | 62 | 973 | 0.050 | ppbv | 96 |
| 7) 1,3-Butadiene | 1.725 | 54 | 1105 | 0.066 | ppbv# | 79 |
| 8) Bromomethane | 1.944 | 94 | 1368 | 0.073 | ppbv# | 86 |
| 9) Chloroethane | 2.047 | 64 | 392 | 0.051 | ppbv# | 75 |
| 10) Ethanol | 2.608 | 45 | 1050 | 0.103 | ppbv# | 20 |
| 12) Acetone | 3.231 | 43 | 5922 | 0.100 | ppbv# | 92 |
| 13) Trichlorofluoromethane | 2.170 | 101 | 3506 | 0.059 | ppbv# | 88 |
| 14) Isopropylalcohol | 3.203 | 45 | 3752 | 0.071 | ppbv# | 50 |
| 15) Acrylonitrile | 4.152 | 53 | 716 | 0.046 | ppbv# | 86 |
| 16) 1,1-Dichloroethene | 2.608 | 61 | 2075 | 0.059 | ppbv# | 81 |
| 17) Methylene Chloride | 3.162 | 49 | 2581 | 0.070 | ppbv | 95 |
| 20) Carbon Disulfide | 2.608 | 76 | 2775 | 0.061 | ppbv# | 82 |
| 21) Trichlorotrifluoroethane | 2.663 | 101 | 2291 | 0.055 | ppbv | 93 |
| 22) Trans-1,2-Dichloroethene | 3.368 | 61 | 1798 | 0.058 | ppbv | 97 |
| 23) 1,1-Dichloroethane | 4.121 | 63 | 2261 | 0.062 | ppbv | 88 |
| 24) Methyl tert-butyl ethe... | 3.573 | 73 | 2161 | 0.051 | ppbv# | 30 |
| 25) Methyl Ethyl Ketone | 5.930 | 43 | 3727 | 0.061 | ppbv# | 89 |
| 26) Cis-1,2-Dichloroethene | 4.952 | 61 | 1748 | 0.053 | ppbv# | 86 |
| 27) Hexane | 3.511 | 57 | 1924 | 0.047 | ppbv# | 61 |
| 28) Chloroform | 5.476 | 83 | 2382 | 0.054 | ppbv# | 83 |
| 29) Ethyl acetate | 5.764 | 43 | 5118 | 0.069 | ppbv# | 92 |
| 30) Tetrahydrofuran | 5.620 | 41 | 104 | 0.005 | ppbv# | 39 |
| 31) 1,2-Dichloroethane | 6.555 | 62 | 1946 | 0.056 | ppbv | 93 |
| 32) 1,1,1-Trichloroethane | 5.728 | 97 | 2806 | 0.058 | ppbv | 97 |
| 33) Benzene | 6.282 | 78 | 2624 | 0.055 | ppbv# | 81 |
| 34) Carbon Tetrachloride | 5.642 | 117 | 3017 | 0.055 | ppbv | 95 |
| 35) Cyclohexane | 5.296 | 56 | 1097 | 0.034 | ppbv# | 18 |
| 37) 1,2-dichloropropane | 7.781 | 63 | 1226 | 0.054 | ppbv# | 60 |
| 38) Bromodichloromethane | 7.932 | 83 | 2864 | 0.059 | ppbv | 98 |
| 39) Trichloroethene | 7.151 | 130 | 1642 | 0.057 | ppbv | 92 |
| 41) 1,4-Dioxane | 8.204 | 88 | 518 | 0.053 | ppbv# | 69 |
| 43) Heptane | 6.418 | 43 | 2731 | 0.053 | ppbv | 97 |
| 44) cis-1,3-Dichloropropene | 8.738 | 75 | 1538 | 0.051 | ppbv | 91 |
| 45) 4-Methyl-2-pentanone(M... | 9.532 | 43 | 3623 | 0.051 | ppbv# | 94 |
| 46) trans-1,3-Dichloropropene | 9.554 | 75 | 1323 | 0.044 | ppbv | 95 |
| 47) 1,1,2-Trichloroethane | 9.734 | 97 | 1327 | 0.051 | ppbv | 87 |
| 48) Toluene | 9.034 | 91 | 2887 | 0.049 | ppbv | 99 |
| 49) Dibromochloromethane | 9.936 | 129 | 3016 | 0.050 | ppbv | 89 |
| 50) 2-Hexanone(MBK) | 10.550 | 43 | 2782 | 0.043 | ppbv# | 89 |
| 51) 1,2-Dibromoethane(EDB) | 10.153 | 107 | 2317 | 0.051 | ppbv | 94 |

Data Path : H:\AIR2021\CHEM24\03MAR\10\
Data File : 0310_05.D
Acq On : 10 Mar 2021 12:18 pm
Operator : Keith
Client ID : ICAL 0.05
Lab ID : 0.05
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Mar 12 11:31:22 2021
Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 12 10:28:02 2021
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 52) Tetrachloroethene | 9.510 | 166 | 1845 | 0.052 | ppbv | 98 |
| 54) 1,1,1,2-Tetrachloroethane | 10.934 | 131 | 1915 | 0.053 | ppbv | 93 |
| 55) Chlorobenzene | 10.831 | 112 | 2980 | 0.054 | ppbv# | 1 |
| 56) Ethylbenzene | 10.921 | 91 | 4048 | 0.050 | ppbv | 97 |
| 57) m,p-Xylene | 11.106 | 91 | 6194 | 0.102 | ppbv# | 93 |
| 58) Bromoform | 11.655 | 173 | 2698 | 0.055 | ppbv | 97 |
| 59) Styrene | 11.662 | 104 | 1771 | 0.040 | ppbv | 95 |
| 60) 1,1,2,2-Tetrachloroethane | 12.577 | 83 | 2758 | 0.052 | ppbv | 99 |
| 61) o-Xylene | 11.600 | 91 | 2837 | 0.047 | ppbv | 98 |
| 64) Isopropylbenzene | 12.006 | 105 | 3899 | 0.046 | ppbv | 99 |
| 66) 4-Ethyltoluene | 12.642 | 105 | 4356 | 0.048 | ppbv | 95 |
| 67) 1,3,5-Trimethylbenzene | 12.759 | 105 | 3594 | 0.049 | ppbv# | 94 |
| 68) 1,2,4-Trimethylbenzene | 13.219 | 105 | 2852 | 0.041 | ppbv# | 97 |
| 70) Benzyl chloride | 13.881 | 91 | 1722 | 0.035 | ppbv | 95 |
| 71) 1,3-Dichlorobenzene | 13.537 | 146 | 2225 | 0.043 | ppbv | 96 |
| 72) 1,4-Dichlorobenzene | 13.635 | 146 | 2235 | 0.047 | ppbv | 97 |
| 73) sec-Butylbenzene | 13.349 | 105 | 4561 | 0.045 | ppbv# | 91 |
| 74) 4-Isopropyltoluene | 13.531 | 119 | 3054 | 0.037 | ppbv# | 86 |
| 75) 1,2-Dichlorobenzene | 14.024 | 146 | 1691 | 0.041 | ppbv | 94 |
| 76) n-Butylbenzene | 13.946 | 91 | 2283 | 0.036 | ppbv# | 96 |
| 77) 1,2,4-Trichlorobenzene | 15.204 | 180 | 312 | 0.024 | ppbv# | 84 |
| 79) Hexachlorobutadiene | 15.214 | 225 | 1013 | 0.055 | ppbv | 99 |
| 81] 1,2-Dichlorotetrafluor... | 1.602 | 135 | 2283 | 0.055 | ppbv | 93 |
| 82] Vinyl Chloride(sim) | 1.707 | 62 | 1207 | 0.055 | ppbv | 95 |
| 83] Bromomethane(sim) | 1.947 | 94 | 1335m | 0.061 | ppbv | 88 |
| 84] Trichlorofluoromethane... | 2.173 | 101 | 3649 | 0.053 | ppbv | 100 |
| 85] 1,1,1-Trichloroethane(... | 5.728 | 97 | 2806 | 0.055 | ppbv# | 97 |
| 86] Benzene(sim) | 6.284 | 78 | 2987 | 0.053 | ppbv | 99 |
| 87] Carbon Tetrachloride(sim) | 5.642 | 117 | 2921 | 0.050 | ppbv | 96 |
| 88] 1,1-Dichloroethene(sim) | 2.604 | 61 | 2165 | 0.052 | ppbv | 99 |
| 89] Trichlorotrifluoroetha... | 2.663 | 101 | 2232 | 0.049 | ppbv | 92 |
| 90] Trans-1,2-Dichloroethe... | 3.364 | 61 | 1889 | 0.052 | ppbv | 98 |
| 91] 1,1-Dichloroethane(sim) | 4.121 | 63 | 2261 | 0.055 | ppbv# | 88 |
| 92] Cis-1,2-Dichloroethene... | 4.955 | 61 | 1932 | 0.053 | ppbv | 98 |
| 93] Chloroform(sim) | 5.476 | 83 | 2253 | 0.047 | ppbv# | 82 |
| 94] 1,2-Dichloroethane(sim) | 6.558 | 62 | 2067 | 0.051 | ppbv | 97 |
| 96] 1,2-dichloropropane(sim) | 7.791 | 63 | 1376 | 0.052 | ppbv | 88 |
| 97] Bromodichloromethane(sim) | 7.932 | 83 | 2864 | 0.057 | ppbv | 96 |
| 98] Trichloroethene(sim) | 7.154 | 130 | 1722 | 0.053 | ppbv | 99 |
| 99] 1,4-Dioxane(sim) | 8.221 | 88 | 560m | 0.057 | ppbv | 68 |
| 100] cis-1,3-Dichloropropen... | 8.741 | 75 | 1597 | 0.050 | ppbv | 96 |
| 101] 1,1,2-Trichloroethane(... | 9.734 | 97 | 1327 | 0.049 | ppbv | 90 |
| 102] Dibromochloromethane(sim) | 9.939 | 129 | 3249 | 0.051 | ppbv | 99 |
| 103] 1,2-Dibromoethane(EDB)... | 10.153 | 107 | 2272 | 0.050 | ppbv | 96 |
| 104] Tetrachloroethene(sim) | 9.506 | 166 | 1907 | 0.050 | ppbv | 97 |
| 106] Bromoform(sim) | 11.651 | 173 | 2637 | 0.076 | ppbv | 99 |
| 107] 1,1,1,2-Tetrachloroeth... | 10.934 | 131 | 1852 | 0.049 | ppbv | 97 |
| 108] Ethylbenzene(sim) | 10.917 | 91 | 4459 | 0.050 | ppb # | 98 |
| 109] m,p-Xylene(sim) | 11.106 | 91 | 6194 | 0.103 | ppbv | 94 |
| 110] o-Xylene(sim) | 11.596 | 91 | 3062 | 0.049 | ppb | 97 |
| 111] 1,1,2,2-Tetrachloroeth... | 12.577 | 83 | 2758 | 0.049 | ppbv# | 98 |
| 114] Benzyl chloride(sim) | 13.884 | 91 | 1835 | 0.041 | ppbv | 99 |
| 115] 1,3-Dichlorobenzene(sim) | 13.537 | 146 | 2225 | 0.043 | ppbv | 96 |
| 116] 1,4-Dichlorobenzene(sim) | 13.638 | 146 | 2408 | 0.046 | ppbv | 99 |
| 117] sec-Butylbenzene(sim) | 13.349 | 105 | 4561 | 0.048 | ppbv | 91 |
| 118] 4-Isopropyltoluene(sim) | 13.534 | 119 | 3542 | 0.044 | ppbv | 98 |
| 119] 1,2-Dichlorobenzene(sim) | 14.024 | 146 | 1651 | 0.041 | ppbv | 91 |

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM24\03MAR\10\
Data File : 0310_05.D
Acq On : 10 Mar 2021 12:18 pm
Operator : Keith
Client ID : ICAL 0.05
Lab ID : 0.05
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Mar 12 11:31:22 2021
Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 12 10:28:02 2021
Response via : Initial Calibration

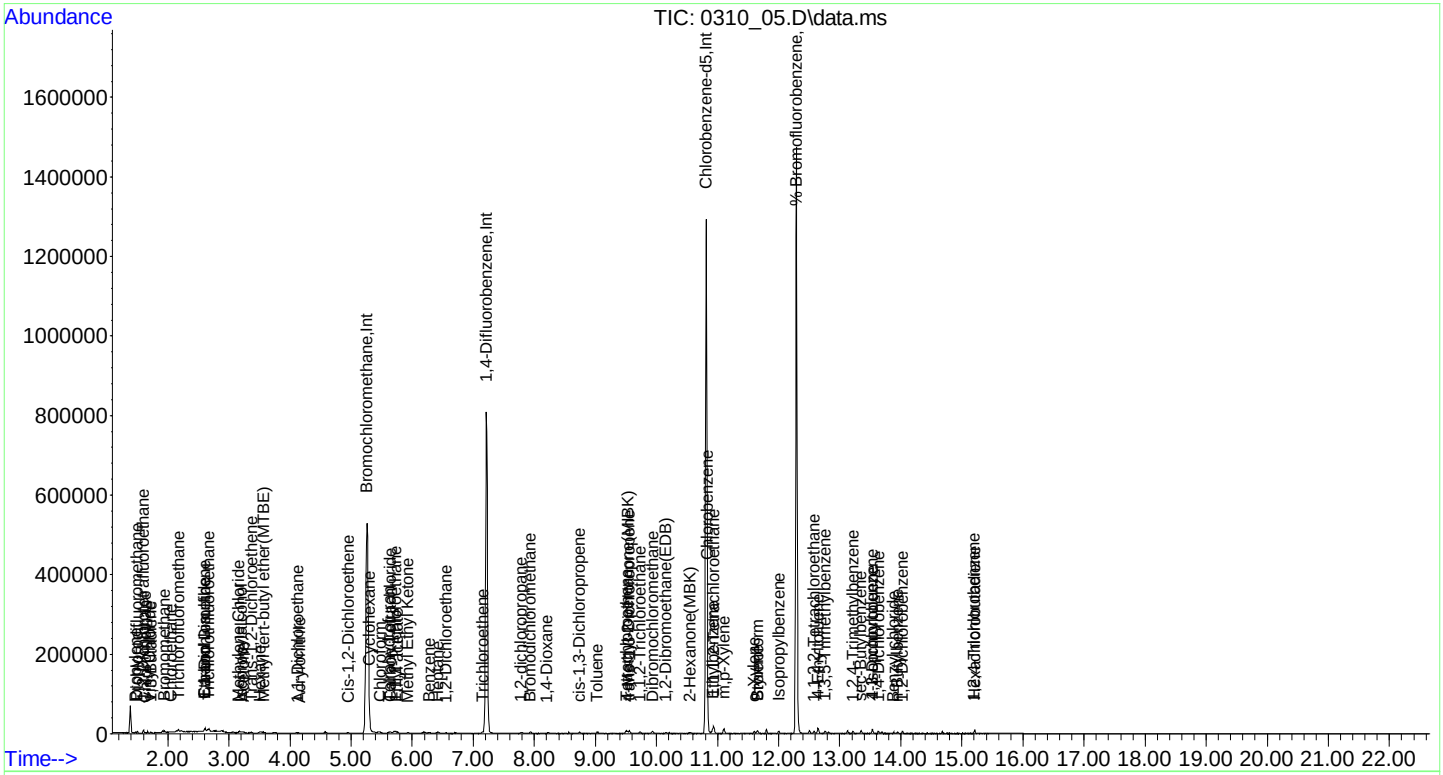
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 120] n-Butylbenzene(sim) | 13.949 | 91 | 2320 | 0.040 | ppbv | 98 |
| 122] Hexachlorobutadiene(sim) | 15.212 | 225 | 1119 | 0.051 | ppbv | 96 |

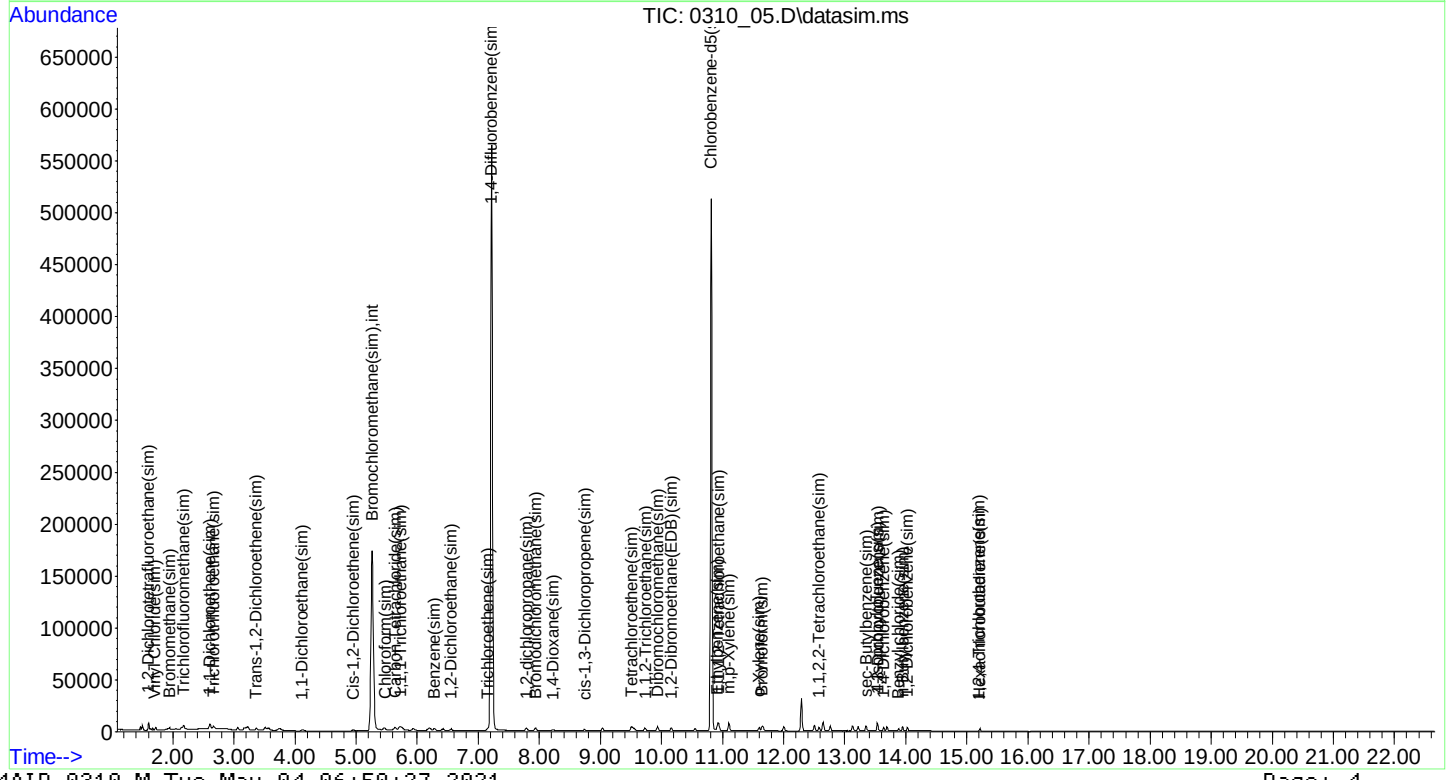
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM24\03MAR\10\
Data File : 0310_05.D
Acq On : 10 Mar 2021 12:18 pm
Operator : Keith
Client ID : ICAL 0.05
Lab ID : 0.05
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Mar 12 11:31:22 2021
Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 12 10:28:02 2021
Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM24\03MAR\10\
Data File : 0310_06.D
Acq On : 10 Mar 2021 12:46 pm
Operator : Keith
Client ID : ICAL 0.1
Lab ID : 0.10
ALS Vial : 50 Sample Multiplier: 1

Quant Time: Mar 12 11:31:50 2021
Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 12 10:28:02 2021
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Bromochloromethane | 5.260 | 130 | 234816 | 10.000 | ng | | 0.00 |
| 36) 1,4-Difluorobenzene | 7.220 | 114 | 729909 | 10.000 | ng | | 0.00 |
| 53) Chlorobenzene-d5 | 10.811 | 82 | 323360 | 10.000 | ng | | 0.00 |
| 80) Bromochloromethane(sim) | 5.263 | 130 | 245111 | 10.000 | ng | # | 0.00 |
| 95) 1,4-Difluorobenzene(sim) | 7.220 | 114 | 729909 | 10.000 | ng | | 0.00 |
| 105) Chlorobenzene-d5(sim) | 10.811 | 82 | 323360 | 10.000 | ng | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 62) % Bromofluorobenzene | 12.291 | 95 | 449907 | 9.994 | ppbv | | 0.00 |
| Spiked Amount 10.000 | Range 70 - 130 | | Recovery = | 99.90% | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) Propylene | 1.471 | 41 | 3467 | 0.148 | ppbv | | 92 |
| 3) Dichlorodifluoromethane | 1.499 | 85 | 4936 | 0.115 | ppbv | | 95 |
| 4) Chloromethane | 1.636 | 50 | 3287 | 0.101 | ppbv | | 94 |
| 5) 1,2-Dichlorotetrafluor... | 1.602 | 135 | 3731 | 0.099 | ppbv | | 95 |
| 6) Vinyl Chloride | 1.704 | 62 | 2088 | 0.106 | ppbv | | 98 |
| 7) 1,3-Butadiene | 1.725 | 54 | 1682 | 0.099 | ppbv# | | 87 |
| 8) Bromomethane | 1.944 | 94 | 2159 | 0.113 | ppbv# | | 93 |
| 9) Chloroethane | 2.047 | 64 | 856 | 0.110 | ppbv | | 90 |
| 10) Ethanol | 2.608 | 45 | 2813 | 0.270 | ppbv# | | 84 |
| 12) Acetone | 3.231 | 43 | 8652 | 0.143 | ppbv | | 97 |
| 13) Trichlorofluoromethane | 2.177 | 101 | 6319 | 0.105 | ppbv# | | 97 |
| 14) Isopropylalcohol | 3.197 | 45 | 6544 | 0.122 | ppbv# | | 74 |
| 15) Acrylonitrile | 4.152 | 53 | 1576 | 0.099 | ppbv | | 100 |
| 16) 1,1-Dichloroethene | 2.602 | 61 | 3885 | 0.107 | ppbv | | 96 |
| 17) Methylene Chloride | 3.176 | 49 | 4274 | 0.114 | ppbv | | 93 |
| 20) Carbon Disulfide | 2.608 | 76 | 4592 | 0.099 | ppbv# | | 85 |
| 21) Trichlorotrifluoroethane | 2.663 | 101 | 4508 | 0.106 | ppbv | | 98 |
| 22) Trans-1,2-Dichloroethene | 3.361 | 61 | 3088 | 0.098 | ppbv | | 93 |
| 23) 1,1-Dichloroethane | 4.116 | 63 | 4003 | 0.107 | ppbv | | 91 |
| 24) Methyl tert-butyl ethe... | 3.559 | 73 | 4332 | 0.101 | ppbv# | | 24 |
| 25) Methyl Ethyl Ketone | 5.930 | 43 | 6457 | 0.104 | ppbv | | 98 |
| 26) Cis-1,2-Dichloroethene | 4.957 | 61 | 3391 | 0.100 | ppbv# | | 89 |
| 27) Hexane | 3.511 | 57 | 3010 | 0.072 | ppbv# | | 62 |
| 28) Chloroform | 5.462 | 83 | 4430 | 0.099 | ppbv | | 85 |
| 29) Ethyl acetate | 5.757 | 43 | 8864 | 0.118 | ppbv# | | 94 |
| 30) Tetrahydrofuran | 5.635 | 41 | 288 | 0.014 | ppbv# | | 39 |
| 31) 1,2-Dichloroethane | 6.562 | 62 | 3582 | 0.102 | ppbv | | 93 |
| 32) 1,1,1-Trichloroethane | 5.721 | 97 | 4670 | 0.095 | ppbv | | 90 |
| 33) Benzene | 6.281 | 78 | 5203 | 0.107 | ppbv | | 95 |
| 34) Carbon Tetrachloride | 5.635 | 117 | 6157 | 0.110 | ppbv | | 92 |
| 35) Cyclohexane | 5.296 | 56 | 3203 | 0.097 | ppbv | | 88 |
| 37) 1,2-dichloropropane | 7.788 | 63 | 2333 | 0.101 | ppbv | | 88 |
| 38) Bromodichloromethane | 7.939 | 83 | 4572 | 0.094 | ppbv | | 99 |
| 39) Trichloroethene | 7.144 | 130 | 2943 | 0.100 | ppbv | | 94 |
| 41) 1,4-Dioxane | 8.218 | 88 | 937 | 0.095 | ppbv# | | 85 |
| 43) Heptane | 6.418 | 43 | 5047 | 0.097 | ppbv | | 92 |
| 44) cis-1,3-Dichloropropene | 8.745 | 75 | 2733 | 0.090 | ppbv | | 89 |
| 45) 4-Methyl-2-pentanone(M... | 9.532 | 43 | 6503 | 0.091 | ppbv# | | 92 |
| 46) trans-1,3-Dichloropropene | 9.554 | 75 | 2647 | 0.087 | ppbv# | | 93 |
| 47) 1,1,2-Trichloroethane | 9.727 | 97 | 2779 | 0.107 | ppbv | | 92 |
| 48) Toluene | 9.027 | 91 | 5512 | 0.093 | ppbv | | 92 |
| 49) Dibromochloromethane | 9.936 | 129 | 5796 | 0.095 | ppbv | | 98 |
| 50) 2-Hexanone(MBK) | 10.543 | 43 | 5009 | 0.077 | ppbv# | | 91 |
| 51) 1,2-Dibromoethane(EDB) | 10.160 | 107 | 4227 | 0.093 | ppbv | | 100 |

Data Path : H:\AIR2021\CHEM24\03MAR\10\
Data File : 0310_06.D
Acq On : 10 Mar 2021 12:46 pm
Operator : Keith
Client ID : ICAL 0.1
Lab ID : 0.10
ALS Vial : 50 Sample Multiplier: 1

Quant Time: Mar 12 11:31:50 2021
Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 12 10:28:02 2021
Response via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 52) | Tetrachloroethene | 9.510 | 166 | 3695 | 0.104 | ppbv | 90 |
| 54) | 1,1,1,2-Tetrachloroethane | 10.934 | 131 | 3612 | 0.099 | ppbv | 96 |
| 55) | Chlorobenzene | 10.831 | 112 | 5875 | 0.106 | ppbv# | 1 |
| 56) | Ethylbenzene | 10.921 | 91 | 7765 | 0.096 | ppbv | 96 |
| 57) | m,p-Xylene | 11.106 | 91 | 11299 | 0.185 | ppbv | 98 |
| 58) | Bromoform | 11.648 | 173 | 5105 | 0.103 | ppbv | 94 |
| 59) | Styrene | 11.662 | 104 | 3275 | 0.075 | ppbv | 97 |
| 60) | 1,1,2,2-Tetrachloroethane | 12.583 | 83 | 5261 | 0.099 | ppbv | 98 |
| 61) | o-Xylene | 11.600 | 91 | 5346 | 0.088 | ppbv | 92 |
| 64) | Isopropylbenzene | 11.999 | 105 | 7451 | 0.087 | ppbv | 98 |
| 66) | 4-Ethyltoluene | 12.642 | 105 | 7184 | 0.080 | ppbv# | 94 |
| 67) | 1,3,5-Trimethylbenzene | 12.765 | 105 | 5966 | 0.081 | ppbv# | 93 |
| 68) | 1,2,4-Trimethylbenzene | 13.219 | 105 | 5631 | 0.080 | ppbv | 98 |
| 70) | Benzyl chloride | 13.881 | 91 | 3518 | 0.070 | ppbv | 96 |
| 71) | 1,3-Dichlorobenzene | 13.537 | 146 | 4410 | 0.086 | ppbv# | 92 |
| 72) | 1,4-Dichlorobenzene | 13.635 | 146 | 4018 | 0.084 | ppbv | 94 |
| 73) | sec-Butylbenzene | 13.349 | 105 | 8318 | 0.081 | ppbv | 95 |
| 74) | 4-Isopropyltoluene | 13.531 | 119 | 5989 | 0.073 | ppbv | 98 |
| 75) | 1,2-Dichlorobenzene | 14.024 | 146 | 3603 | 0.088 | ppbv | 96 |
| 76) | n-Butylbenzene | 13.946 | 91 | 4698 | 0.075 | ppbv | 92 |
| 77) | 1,2,4-Trichlorobenzene | 15.199 | 180 | 561 | 0.044 | ppbv# | 75 |
| 79) | Hexachlorobutadiene | 15.214 | 225 | 1730 | 0.093 | ppbv | 95 |
| 81] | 1,2-Dichlorotetrafluor... | 1.602 | 135 | 3731 | 0.089 | ppbv | 95 |
| 82] | Vinyl Chloride(sim) | 1.707 | 62 | 2209 | 0.099 | ppbv | 99 |
| 83] | Bromomethane(sim) | 1.947 | 94 | 2262m | 0.101 | ppbv | 93 |
| 84] | Trichlorofluoromethane... | 2.173 | 101 | 6661 | 0.096 | ppbv | 100 |
| 85] | 1,1,1-Trichloroethane(... | 5.721 | 97 | 4670 | 0.090 | ppbv# | 90 |
| 86] | Benzene(sim) | 6.278 | 78 | 5345 | 0.094 | ppbv | 98 |
| 87] | Carbon Tetrachloride(sim) | 5.635 | 117 | 6026 | 0.101 | ppbv | 94 |
| 88] | 1,1-Dichloroethene(sim) | 2.604 | 61 | 4049 | 0.096 | ppbv | 98 |
| 89] | Trichlorotrifluoroetha... | 2.663 | 101 | 4508 | 0.097 | ppbv | 98 |
| 90] | Trans-1,2-Dichloroethe... | 3.364 | 61 | 3490 | 0.096 | ppbv | 100 |
| 91] | 1,1-Dichloroethane(sim) | 4.116 | 63 | 4003 | 0.095 | ppbv# | 91 |
| 92] | Cis-1,2-Dichloroethene... | 4.955 | 61 | 3188 | 0.086 | ppbv | 97 |
| 93] | Chloroform(sim) | 5.462 | 83 | 4430 | 0.091 | ppbv# | 86 |
| 94] | 1,2-Dichloroethane(sim) | 6.558 | 62 | 3888 | 0.095 | ppbv | 99 |
| 96] | 1,2-dichloropropane(sim) | 7.791 | 63 | 2548 | 0.096 | ppbv | 91 |
| 97] | Bromodichloromethane(sim) | 7.939 | 83 | 4572 | 0.090 | ppbv | 98 |
| 98] | Trichloroethene(sim) | 7.154 | 130 | 3049 | 0.093 | ppbv | 99 |
| 99] | 1,4-Dioxane(sim) | 8.214 | 88 | 1000m | 0.102 | ppbv | 86 |
| 100] | cis-1,3-Dichloropropen... | 8.741 | 75 | 3050 | 0.095 | ppbv | 99 |
| 101] | 1,1,2-Trichloroethane(... | 9.727 | 97 | 2779 | 0.102 | ppbv | 92 |
| 102] | Dibromochloromethane(sim) | 9.932 | 129 | 6056 | 0.094 | ppbv | 99 |
| 103] | 1,2-Dibromoethane(EDB)... | 10.160 | 107 | 4227 | 0.091 | ppbv | 100 |
| 104] | Tetrachloroethene(sim) | 9.506 | 166 | 3575 | 0.094 | ppbv | 98 |
| 106] | Bromoform(sim) | 11.651 | 173 | 4851 | 0.139 | ppbv | 100 |
| 107] | 1,1,1,2-Tetrachloroeth... | 10.934 | 131 | 3670 | 0.097 | ppbv | 97 |
| 108] | Ethylbenzene(sim) | 10.917 | 91 | 8285 | 0.094 | ppb # | 99 |
| 109] | m,p-Xylene(sim) | 11.106 | 91 | 11299 | 0.188 | ppbv | 97 |
| 110] | o-Xylene(sim) | 11.603 | 91 | 5714 | 0.091 | ppb | 99 |
| 111] | 1,1,2,2-Tetrachloroeth... | 12.583 | 83 | 5261 | 0.094 | ppbv | 98 |
| 114] | Benzyl chloride(sim) | 13.884 | 91 | 3541 | 0.078 | ppbv | 98 |
| 115] | 1,3-Dichlorobenzene(sim) | 13.537 | 146 | 4410 | 0.084 | ppbv# | 92 |
| 116] | 1,4-Dichlorobenzene(sim) | 13.638 | 146 | 4482 | 0.086 | ppbv | 99 |
| 117] | sec-Butylbenzene(sim) | 13.349 | 105 | 8318 | 0.087 | ppbv | 95 |
| 118] | 4-Isopropyltoluene(sim) | 13.534 | 119 | 6623 | 0.083 | ppbv | 99 |
| 119] | 1,2-Dichlorobenzene(sim) | 14.024 | 146 | 3603 | 0.089 | ppbv | 96 |

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM24\03MAR\10\
Data File : 0310_06.D
Acq On : 10 Mar 2021 12:46 pm
Operator : Keith
Client ID : ICAL 0.1
Lab ID : 0.10
ALS Vial : 50 Sample Multiplier: 1

Quant Time: Mar 12 11:31:50 2021
Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 12 10:28:02 2021
Response via : Initial Calibration

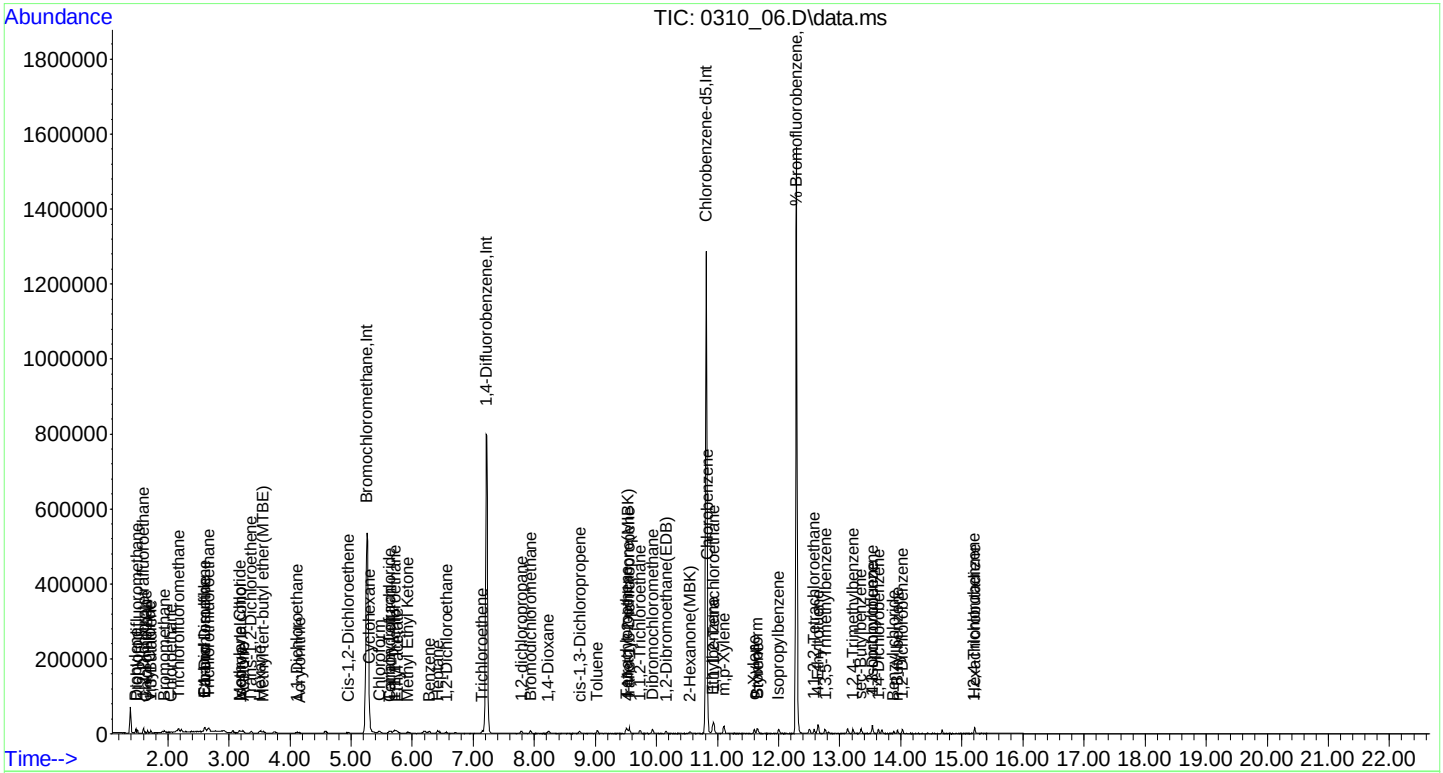
| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 120] n-Butylbenzene(sim) | 13.949 | 91 | 4581 | 0.080 ppbv | 96 |
| 122] Hexachlorobutadiene(sim) | 15.212 | 225 | 1884 | 0.085 ppbv | 98 |

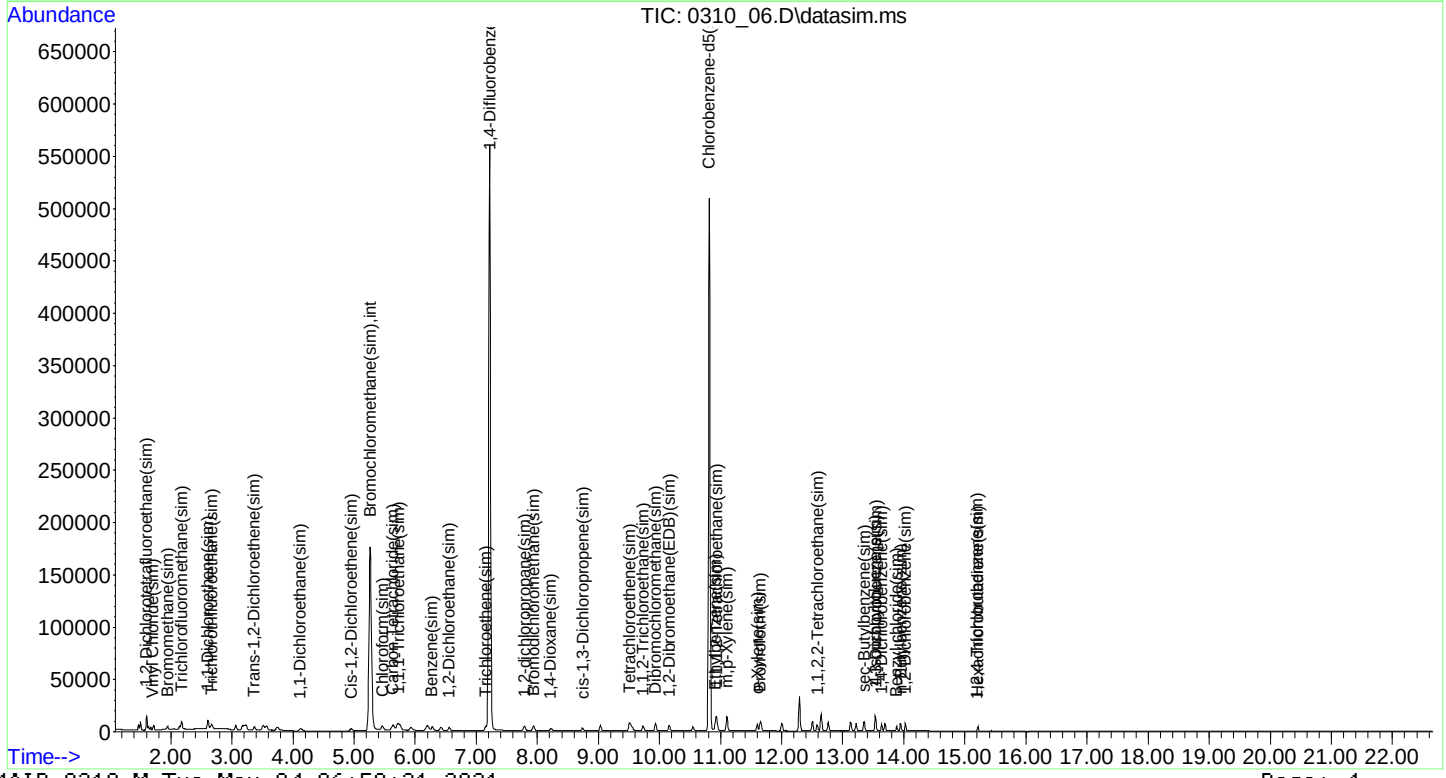
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM24\03MAR\10\
Data File : 0310_06.D
Acq On : 10 Mar 2021 12:46 pm
Operator : Keith
Client ID : ICAL 0.1
Lab ID : 0.10
ALS Vial : 50 Sample Multiplier: 1

Quant Time: Mar 12 11:31:50 2021
Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 12 10:28:02 2021
Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM24\03MAR\10\
Data File : 0310_07.D
Acq On : 10 Mar 2021 1:16 pm
Operator : Keith
Client ID : ICAL 0.25
Lab ID : 0.20
ALS Vial : 51 Sample Multiplier: 1

Quant Time: Mar 12 11:29:00 2021
Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 12 10:28:02 2021
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Bromochloromethane | 5.267 | 130 | 231674 | 10.000 | ng | | 0.00 |
| 36) 1,4-Difluorobenzene | 7.220 | 114 | 725271 | 10.000 | ng | | 0.00 |
| 53) Chlorobenzene-d5 | 10.818 | 82 | 328052 | 10.000 | ng | | 0.00 |
| 80) Bromochloromethane(sim) | 5.263 | 130 | 240292 | 10.000 | ng | # | 0.00 |
| 95) 1,4-Difluorobenzene(sim) | 7.220 | 114 | 725271 | 10.000 | ng | | 0.00 |
| 105) Chlorobenzene-d5(sim) | 10.818 | 82 | 328052 | 10.000 | ng | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 62) % Bromofluorobenzene | 12.291 | 95 | 446393 | 9.774 | ppbv | | 0.00 |
| Spiked Amount 10.000 | Range 70 - 130 | | Recovery = | 97.70% | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) Propylene | 1.471 | 41 | 5089 | 0.221 | ppbv# | | 88 |
| 3) Dichlorodifluoromethane | 1.499 | 85 | 9277 | 0.219 | ppbv | | 99 |
| 4) Chloromethane | 1.636 | 50 | 5753 | 0.180 | ppbv | | 77 |
| 5) 1,2-Dichlorotetrafluor... | 1.602 | 135 | 7926 | 0.212 | ppbv | | 97 |
| 6) Vinyl Chloride | 1.704 | 62 | 3447 | 0.177 | ppbv | | 79 |
| 7) 1,3-Butadiene | 1.725 | 54 | 3376 | 0.201 | ppbv# | | 94 |
| 8) Bromomethane | 1.944 | 94 | 4035 | 0.213 | ppbv | | 99 |
| 9) Chloroethane | 2.054 | 64 | 1507 | 0.196 | ppbv | | 81 |
| 10) Ethanol | 2.608 | 45 | 2848 | 0.277 | ppbv# | | 63 |
| 12) Acetone | 3.231 | 43 | 14190 | 0.238 | ppbv | | 97 |
| 13) Trichlorofluoromethane | 2.170 | 101 | 12202 | 0.205 | ppbv# | | 97 |
| 14) Isopropylalcohol | 3.203 | 45 | 12146 | 0.230 | ppbv# | | 89 |
| 15) Acrylonitrile | 4.141 | 53 | 3030 | 0.192 | ppbv# | | 88 |
| 16) 1,1-Dichloroethene | 2.601 | 61 | 7533 | 0.211 | ppbv | | 96 |
| 17) Methylene Chloride | 3.169 | 49 | 7931 | 0.215 | ppbv | | 97 |
| 20) Carbon Disulfide | 2.608 | 76 | 9164 | 0.200 | ppbv# | | 91 |
| 21) Trichlorotrifluoroethane | 2.670 | 101 | 8838 | 0.211 | ppbv | | 96 |
| 22) Trans-1,2-Dichloroethene | 3.361 | 61 | 5998 | 0.193 | ppbv | | 97 |
| 23) 1,1-Dichloroethane | 4.116 | 63 | 7449 | 0.202 | ppbv | | 98 |
| 24) Methyl tert-butyl ethe... | 3.559 | 73 | 7723 | 0.182 | ppbv | | 86 |
| 25) Methyl Ethyl Ketone | 5.930 | 43 | 12330 | 0.201 | ppbv | | 97 |
| 26) Cis-1,2-Dichloroethene | 4.957 | 61 | 6266 | 0.188 | ppbv | | 96 |
| 27) Hexane | 3.511 | 57 | 6629 | 0.160 | ppbv | | 93 |
| 28) Chloroform | 5.461 | 83 | 8775 | 0.199 | ppbv | | 92 |
| 29) Ethyl acetate | 5.757 | 43 | 14989 | 0.202 | ppbv# | | 99 |
| 30) Tetrahydrofuran | 5.692 | 41 | 4197 | 0.207 | ppbv# | | 81 |
| 31) 1,2-Dichloroethane | 6.562 | 62 | 6677 | 0.192 | ppbv | | 96 |
| 32) 1,1,1-Trichloroethane | 5.721 | 97 | 9672 | 0.200 | ppbv | | 100 |
| 33) Benzene | 6.281 | 78 | 9771 | 0.203 | ppbv | | 97 |
| 34) Carbon Tetrachloride | 5.634 | 117 | 11021 | 0.199 | ppbv | | 98 |
| 35) Cyclohexane | 5.303 | 56 | 6254 | 0.193 | ppbv# | | 84 |
| 37) 1,2-dichloropropane | 7.795 | 63 | 4468 | 0.195 | ppbv# | | 84 |
| 38) Bromodichloromethane | 7.939 | 83 | 9236 | 0.191 | ppbv | | 99 |
| 39) Trichloroethene | 7.151 | 130 | 5445 | 0.187 | ppbv | | 98 |
| 41) 1,4-Dioxane | 8.218 | 88 | 1899 | 0.194 | ppbv# | | 95 |
| 43) Heptane | 6.425 | 43 | 9081 | 0.175 | ppbv | | 97 |
| 44) cis-1,3-Dichloropropene | 8.745 | 75 | 5640 | 0.187 | ppbv | | 96 |
| 45) 4-Methyl-2-pentanone(M... | 9.532 | 43 | 11829 | 0.167 | ppbv# | | 97 |
| 46) trans-1,3-Dichloropropene | 9.554 | 75 | 5131 | 0.170 | ppbv | | 99 |
| 47) 1,1,2-Trichloroethane | 9.727 | 97 | 5047 | 0.195 | ppbv | | 97 |
| 48) Toluene | 9.034 | 91 | 10750 | 0.182 | ppbv | | 98 |
| 49) Dibromochloromethane | 9.936 | 129 | 11227 | 0.185 | ppbv | | 94 |
| 50) 2-Hexanone(MBK) | 10.550 | 43 | 9716 | 0.149 | ppbv# | | 92 |
| 51) 1,2-Dibromoethane(EDB) | 10.160 | 107 | 7992 | 0.177 | ppbv | | 95 |

Data Path : H:\AIR2021\CHEM24\03MAR\10\
Data File : 0310_07.D
Acq On : 10 Mar 2021 1:16 pm
Operator : Keith
Client ID : ICAL 0.25
Lab ID : 0.20
ALS Vial : 51 Sample Multiplier: 1

Quant Time: Mar 12 11:29:00 2021
Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 12 10:28:02 2021
Response via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 52) | Tetrachloroethene | 9.503 | 166 | 6827 | 0.193 | ppbv | 98 |
| 54) | 1,1,1,2-Tetrachloroethane | 10.934 | 131 | 7095 | 0.192 | ppbv | 100 |
| 55) | Chlorobenzene | 10.831 | 112 | 10850 | 0.193 | ppbv# | 45 |
| 56) | Ethylbenzene | 10.920 | 91 | 14639 | 0.178 | ppbv | 97 |
| 57) | m,p-Xylene | 11.106 | 91 | 22704 | 0.367 | ppbv | 95 |
| 58) | Bromoform | 11.648 | 173 | 9386 | 0.187 | ppbv | 97 |
| 59) | Styrene | 11.662 | 104 | 6506 | 0.147 | ppbv | 96 |
| 60) | 1,1,2,2-Tetrachloroethane | 12.583 | 83 | 9818 | 0.182 | ppbv | 99 |
| 61) | o-Xylene | 11.600 | 91 | 9607 | 0.155 | ppbv | 96 |
| 64) | Isopropylbenzene | 12.006 | 105 | 14068 | 0.162 | ppbv | 99 |
| 66) | 4-Ethyltoluene | 12.648 | 105 | 15046 | 0.164 | ppbv# | 96 |
| 67) | 1,3,5-Trimethylbenzene | 12.759 | 105 | 12252 | 0.164 | ppbv | 96 |
| 68) | 1,2,4-Trimethylbenzene | 13.219 | 105 | 10775 | 0.151 | ppbv# | 94 |
| 70) | Benzyl chloride | 13.888 | 91 | 6822 | 0.135 | ppbv | 97 |
| 71) | 1,3-Dichlorobenzene | 13.537 | 146 | 9049 | 0.174 | ppbv | 97 |
| 72) | 1,4-Dichlorobenzene | 13.635 | 146 | 7914 | 0.163 | ppbv | 99 |
| 73) | sec-Butylbenzene | 13.349 | 105 | 16473 | 0.159 | ppbv | 98 |
| 74) | 4-Isopropyltoluene | 13.531 | 119 | 12616 | 0.152 | ppbv | 96 |
| 75) | 1,2-Dichlorobenzene | 14.024 | 146 | 6847 | 0.165 | ppbv | 98 |
| 76) | n-Butylbenzene | 13.946 | 91 | 9364 | 0.147 | ppbv# | 92 |
| 77) | 1,2,4-Trichlorobenzene | 15.199 | 180 | 1273 | 0.097 | ppbv# | 71 |
| 79) | Hexachlorobutadiene | 15.214 | 225 | 3179 | 0.169 | ppbv | 98 |
| 81] | 1,2-Dichlorotetrafluor... | 1.602 | 135 | 7926 | 0.193 | ppbv | 97 |
| 82] | Vinyl Chloride(sim) | 1.707 | 62 | 4158 | 0.189 | ppbv | 100 |
| 83] | Bromomethane(sim) | 1.944 | 94 | 4035 | 0.185 | ppbv | 99 |
| 84] | Trichlorofluoromethane... | 2.173 | 101 | 12918 | 0.189 | ppbv | 100 |
| 85] | 1,1,1-Trichloroethane(... | 5.721 | 97 | 9445 | 0.186 | ppbv# | 98 |
| 86] | Benzene(sim) | 6.284 | 78 | 10187 | 0.182 | ppbv | 99 |
| 87] | Carbon Tetrachloride(sim) | 5.634 | 117 | 11021 | 0.189 | ppbv | 96 |
| 88] | 1,1-Dichloroethene(sim) | 2.604 | 61 | 7782 | 0.188 | ppbv | 99 |
| 89] | Trichlorotrifluoroetha... | 2.670 | 101 | 8536 | 0.188 | ppbv | 96 |
| 90] | Trans-1,2-Dichloroethe... | 3.364 | 61 | 6693 | 0.187 | ppbv | 99 |
| 91] | 1,1-Dichloroethane(sim) | 4.116 | 63 | 7449 | 0.181 | ppbv | 98 |
| 92] | Cis-1,2-Dichloroethene... | 4.955 | 61 | 6728 | 0.185 | ppbv | 98 |
| 93] | Chloroform(sim) | 5.461 | 83 | 8775 | 0.185 | ppbv# | 92 |
| 94] | 1,2-Dichloroethane(sim) | 6.558 | 62 | 7541 | 0.187 | ppbv | 99 |
| 96] | 1,2-dichloropropane(sim) | 7.791 | 63 | 4784 | 0.181 | ppbv | 89 |
| 97] | Bromodichloromethane(sim) | 7.939 | 83 | 9236 | 0.182 | ppbv | 99 |
| 98] | Trichloroethene(sim) | 7.154 | 130 | 6009 | 0.184 | ppbv | 100 |
| 99] | 1,4-Dioxane(sim) | 8.218 | 88 | 1899 | 0.194 | ppbv | 98 |
| 100] | cis-1,3-Dichloropropen... | 8.741 | 75 | 5856 | 0.183 | ppbv | 100 |
| 101] | 1,1,2-Trichloroethane(... | 9.727 | 97 | 5096 | 0.188 | ppbv | 95 |
| 102] | Dibromochloromethane(sim) | 9.939 | 129 | 11823 | 0.185 | ppbv | 99 |
| 103] | 1,2-Dibromoethane(EDB)... | 10.160 | 107 | 7992 | 0.174 | ppbv | 95 |
| 104] | Tetrachloroethene(sim) | 9.506 | 166 | 7065 | 0.186 | ppbv | 99 |
| 106] | Bromoform(sim) | 11.651 | 173 | 9611 | 0.268 | ppbv | 99 |
| 107] | 1,1,1,2-Tetrachloroeth... | 10.934 | 131 | 7095 | 0.185 | ppbv | 100 |
| 108] | Ethylbenzene(sim) | 10.923 | 91 | 16164 | 0.180 | ppb | 99 |
| 109] | m,p-Xylene(sim) | 11.106 | 91 | 22704 | 0.372 | ppbv | 95 |
| 110] | o-Xylene(sim) | 11.603 | 91 | 11176 | 0.175 | ppb | 99 |
| 111] | 1,1,2,2-Tetrachloroeth... | 12.583 | 83 | 9764 | 0.172 | ppbv | 98 |
| 114] | Benzyl chloride(sim) | 13.884 | 91 | 7545 | 0.164 | ppbv | 99 |
| 115] | 1,3-Dichlorobenzene(sim) | 13.537 | 146 | 9049 | 0.170 | ppbv | 97 |
| 116] | 1,4-Dichlorobenzene(sim) | 13.638 | 146 | 8994 | 0.169 | ppbv | 99 |
| 117] | sec-Butylbenzene(sim) | 13.349 | 105 | 16473 | 0.170 | ppbv | 98 |
| 118] | 4-Isopropyltoluene(sim) | 13.534 | 119 | 13611 | 0.167 | ppbv | 99 |
| 119] | 1,2-Dichlorobenzene(sim) | 14.024 | 146 | 6806 | 0.166 | ppbv | 97 |

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM24\03MAR\10\
Data File : 0310_07.D
Acq On : 10 Mar 2021 1:16 pm
Operator : Keith
Client ID : ICAL 0.25
Lab ID : 0.20
ALS Vial : 51 Sample Multiplier: 1

Quant Time: Mar 12 11:29:00 2021
Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 12 10:28:02 2021
Response via : Initial Calibration

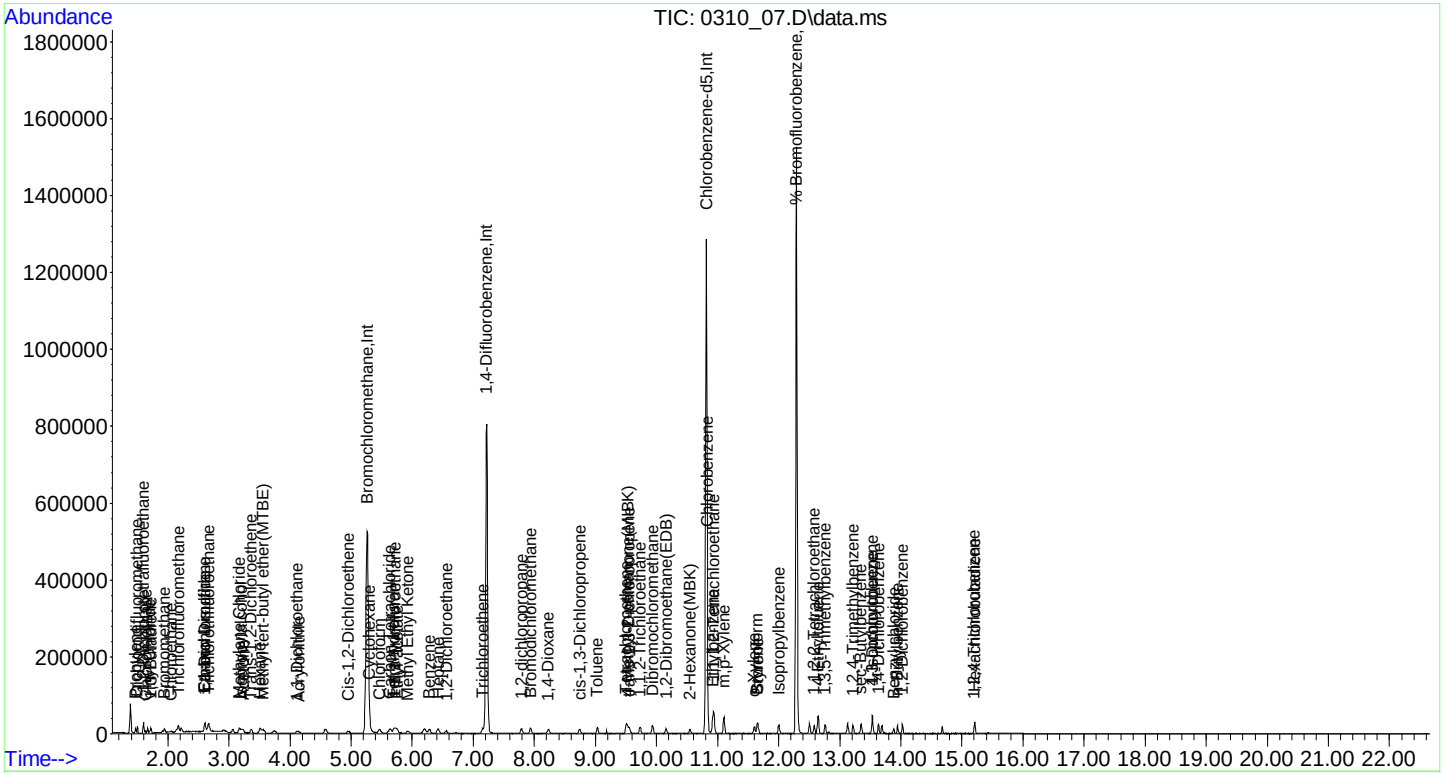
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 120] n-Butylbenzene(sim) | 13.949 | 91 | 9494 | 0.163 | ppbv | 97 |
| 122] Hexachlorobutadiene(sim) | 15.212 | 225 | 3597 | 0.161 | ppbv | 99 |

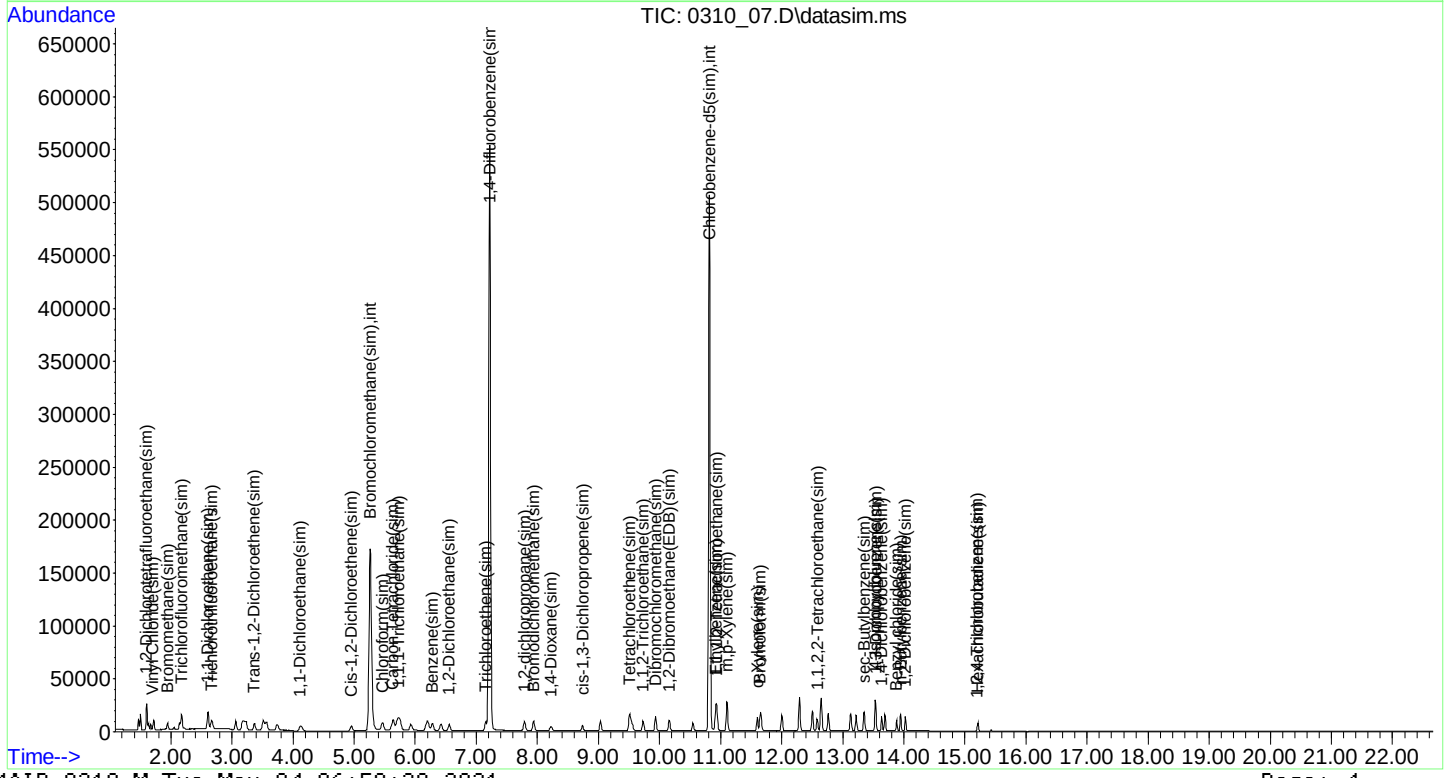
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM24\03MAR\10\
Data File : 0310_07.D
Acq On : 10 Mar 2021 1:16 pm
Operator : Keith
Client ID : ICAL 0.25
Lab ID : 0.20
ALS Vial : 51 Sample Multiplier: 1

Quant Time: Mar 12 11:29:00 2021
Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 12 10:28:02 2021
Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM24\03MAR\10\
Data File : 0310_08.D
Acq On : 10 Mar 2021 1:48 pm
Operator : Keith
Client ID : ICAL 0.5
Lab ID : 0.50
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Mar 12 11:29:10 2021
Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 12 10:28:02 2021
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Bromochloromethane | 5.265 | 130 | 231764 | 10.000 | ng | | 0.00 |
| 36) 1,4-Difluorobenzene | 7.218 | 114 | 716071 | 10.000 | ng | | 0.00 |
| 53) Chlorobenzene-d5 | 10.815 | 82 | 325712 | 10.000 | ng | | 0.00 |
| 80) Bromochloromethane(sim) | 5.267 | 130 | 241281 | 10.000 | ng | # | 0.00 |
| 95) 1,4-Difluorobenzene(sim) | 7.218 | 114 | 716071 | 10.000 | ng | | 0.00 |
| 105) Chlorobenzene-d5(sim) | 10.815 | 82 | 325712 | 10.000 | ng | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 62) % Bromofluorobenzene | 12.290 | 95 | 448667 | 9.894 | ppbv | | 0.00 |
| Spiked Amount 10.000 | Range 70 - 130 | | Recovery = | 98.90% | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) Propylene | 1.471 | 41 | 11486 | 0.498 | ppbv | | 97 |
| 3) Dichlorodifluoromethane | 1.499 | 85 | 21159 | 0.500 | ppbv | | 98 |
| 4) Chloromethane | 1.636 | 50 | 14353 | 0.448 | ppbv | | 87 |
| 5) 1,2-Dichlorotetrafluor... | 1.601 | 135 | 18989 | 0.509 | ppbv | | 98 |
| 6) Vinyl Chloride | 1.704 | 62 | 9496 | 0.488 | ppbv | | 100 |
| 7) 1,3-Butadiene | 1.725 | 54 | 8036 | 0.479 | ppbv | | 95 |
| 8) Bromomethane | 1.944 | 94 | 9552 | 0.505 | ppbv | | 98 |
| 9) Chloroethane | 2.047 | 64 | 4015 | 0.523 | ppbv | | 98 |
| 10) Ethanol | 2.608 | 45 | 6049 | 0.587 | ppbv# | | 85 |
| 12) Acetone | 3.231 | 43 | 32806 | 0.551 | ppbv | | 96 |
| 13) Trichlorofluoromethane | 2.170 | 101 | 30780 | 0.518 | ppbv | | 99 |
| 14) Isopropylalcohol | 3.196 | 45 | 25956 | 0.491 | ppbv# | | 1 |
| 15) Acrylonitrile | 4.146 | 53 | 7513 | 0.476 | ppbv | | 96 |
| 16) 1,1-Dichloroethene | 2.608 | 61 | 17478 | 0.490 | ppbv | | 97 |
| 17) Methylene Chloride | 3.169 | 49 | 17390 | 0.472 | ppbv | | 98 |
| 20) Carbon Disulfide | 2.615 | 76 | 23235 | 0.508 | ppbv | | 98 |
| 21) Trichlorotrifluoroethane | 2.670 | 101 | 21289 | 0.508 | ppbv | | 99 |
| 22) Trans-1,2-Dichloroethene | 3.367 | 61 | 14850 | 0.477 | ppbv | | 97 |
| 23) 1,1-Dichloroethane | 4.111 | 63 | 18524 | 0.502 | ppbv | | 99 |
| 24) Methyl tert-butyl ethe... | 3.566 | 73 | 21181 | 0.499 | ppbv# | | 1 |
| 25) Methyl Ethyl Ketone | 5.928 | 43 | 29646 | 0.483 | ppbv | | 98 |
| 26) Cis-1,2-Dichloroethene | 4.952 | 61 | 15741 | 0.471 | ppbv | | 96 |
| 27) Hexane | 3.511 | 57 | 20348 | 0.492 | ppbv# | | 75 |
| 28) Chloroform | 5.466 | 83 | 22193 | 0.504 | ppbv | | 97 |
| 29) Ethyl acetate | 5.755 | 43 | 39224 | 0.527 | ppbv | | 98 |
| 30) Tetrahydrofuran | 5.690 | 41 | 10646 | 0.524 | ppbv# | | 86 |
| 31) 1,2-Dichloroethane | 6.560 | 62 | 17854 | 0.513 | ppbv | | 98 |
| 32) 1,1,1-Trichloroethane | 5.726 | 97 | 25130 | 0.520 | ppbv | | 99 |
| 33) Benzene | 6.280 | 78 | 22303 | 0.464 | ppbv | | 96 |
| 34) Carbon Tetrachloride | 5.639 | 117 | 27133 | 0.490 | ppbv | | 98 |
| 35) Cyclohexane | 5.301 | 56 | 15214 | 0.469 | ppbv | | 90 |
| 37) 1,2-dichloropropane | 7.786 | 63 | 10954 | 0.484 | ppbv | | 87 |
| 38) Bromodichloromethane | 7.937 | 83 | 23550 | 0.493 | ppbv | | 100 |
| 39) Trichloroethene | 7.149 | 130 | 13993 | 0.486 | ppbv | | 99 |
| 41) 1,4-Dioxane | 8.209 | 88 | 4329 | 0.448 | ppbv | | 97 |
| 43) Heptane | 6.416 | 43 | 23956 | 0.469 | ppbv | | 99 |
| 44) cis-1,3-Dichloropropene | 8.736 | 75 | 13859 | 0.465 | ppbv | | 94 |
| 45) 4-Methyl-2-pentanone(M... | 9.530 | 43 | 31727 | 0.455 | ppbv# | | 96 |
| 46) trans-1,3-Dichloropropene | 9.559 | 75 | 13037 | 0.437 | ppbv | | 97 |
| 47) 1,1,2-Trichloroethane | 9.732 | 97 | 12200 | 0.477 | ppbv | | 98 |
| 48) Toluene | 9.032 | 91 | 26831 | 0.460 | ppbv | | 98 |
| 49) Dibromochloromethane | 9.934 | 129 | 29040 | 0.486 | ppbv | | 99 |
| 50) 2-Hexanone(MBK) | 10.541 | 43 | 26533 | 0.413 | ppbv | | 96 |
| 51) 1,2-Dibromoethane(EDB) | 10.158 | 107 | 21279 | 0.476 | ppbv | | 100 |

Data Path : H:\AIR2021\CHEM24\03MAR\10\
Data File : 0310_08.D
Acq On : 10 Mar 2021 1:48 pm
Operator : Keith
Client ID : ICAL 0.5
Lab ID : 0.50
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Mar 12 11:29:10 2021
Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 12 10:28:02 2021
Response via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 52) | Tetrachloroethene | 9.508 | 166 | 17228 | 0.493 | ppbv | 97 |
| 54) | 1,1,1,2-Tetrachloroethane | 10.939 | 131 | 18049 | 0.492 | ppbv | 97 |
| 55) | Chlorobenzene | 10.836 | 112 | 26729 | 0.478 | ppbv# | 79 |
| 56) | Ethylbenzene | 10.918 | 91 | 38667 | 0.473 | ppbv | 98 |
| 57) | m,p-Xylene | 11.103 | 91 | 57619 | 0.937 | ppbv | 98 |
| 58) | Bromoform | 11.646 | 173 | 24645 | 0.494 | ppbv | 98 |
| 59) | Styrene | 11.666 | 104 | 17512 | 0.397 | ppbv | 96 |
| 60) | 1,1,2,2-Tetrachloroethane | 12.582 | 83 | 26415 | 0.493 | ppbv | 99 |
| 61) | o-Xylene | 11.604 | 91 | 26864 | 0.437 | ppbv | 99 |
| 64) | Isopropylbenzene | 12.004 | 105 | 36612 | 0.426 | ppbv | 98 |
| 66) | 4-Ethyltoluene | 12.646 | 105 | 40792 | 0.448 | ppbv | 99 |
| 67) | 1,3,5-Trimethylbenzene | 12.763 | 105 | 34606 | 0.466 | ppbv | 97 |
| 68) | 1,2,4-Trimethylbenzene | 13.217 | 105 | 33302 | 0.470 | ppbv | 96 |
| 70) | Benzyl chloride | 13.886 | 91 | 20401 | 0.406 | ppbv | 97 |
| 71) | 1,3-Dichlorobenzene | 13.535 | 146 | 24278 | 0.470 | ppbv | 98 |
| 72) | 1,4-Dichlorobenzene | 13.633 | 146 | 22450 | 0.464 | ppbv | 99 |
| 73) | sec-Butylbenzene | 13.347 | 105 | 46947 | 0.456 | ppbv | 98 |
| 74) | 4-Isopropyltoluene | 13.535 | 119 | 36720 | 0.446 | ppbv | 99 |
| 75) | 1,2-Dichlorobenzene | 14.029 | 146 | 19721 | 0.478 | ppbv | 99 |
| 76) | n-Butylbenzene | 13.944 | 91 | 28363 | 0.449 | ppbv | 99 |
| 77) | 1,2,4-Trichlorobenzene | 15.199 | 180 | 4888 | 0.375 | ppbv# | 94 |
| 79) | Hexachlorobutadiene | 15.214 | 225 | 9163 | 0.489 | ppbv | 99 |
| 81] | 1,2-Dichlorotetrafluor... | 1.601 | 135 | 18989 | 0.459 | ppbv | 97 |
| 82] | Vinyl Chloride(sim) | 1.707 | 62 | 10531 | 0.477 | ppbv | 100 |
| 83] | Bromomethane(sim) | 1.944 | 94 | 9552 | 0.435 | ppbv | 98 |
| 84] | Trichlorofluoromethane... | 2.173 | 101 | 31786 | 0.463 | ppbv | 100 |
| 85] | 1,1,1-Trichloroethane(... | 5.726 | 97 | 24968 | 0.491 | ppbv# | 98 |
| 86] | Benzene(sim) | 6.282 | 78 | 24969 | 0.445 | ppbv | 96 |
| 87] | Carbon Tetrachloride(sim) | 5.639 | 117 | 27133 | 0.462 | ppbv | 98 |
| 88] | 1,1-Dichloroethene(sim) | 2.604 | 61 | 19211 | 0.461 | ppbv | 100 |
| 89] | Trichlorotrifluoroetha... | 2.670 | 101 | 21289 | 0.468 | ppbv | 100 |
| 90] | Trans-1,2-Dichloroethe... | 3.364 | 61 | 16550 | 0.461 | ppbv | 100 |
| 91] | 1,1-Dichloroethane(sim) | 4.111 | 63 | 18524 | 0.448 | ppbv | 99 |
| 92] | Cis-1,2-Dichloroethene... | 4.960 | 61 | 17009 | 0.467 | ppbv | 96 |
| 93] | Chloroform(sim) | 5.466 | 83 | 22237 | 0.466 | ppbv | 97 |
| 94] | 1,2-Dichloroethane(sim) | 6.556 | 62 | 18737 | 0.463 | ppbv | 100 |
| 96] | 1,2-dichloropropane(sim) | 7.789 | 63 | 11944 | 0.457 | ppbv | 92 |
| 97] | Bromodichloromethane(sim) | 7.937 | 83 | 23550 | 0.471 | ppbv | 100 |
| 98] | Trichloroethene(sim) | 7.152 | 130 | 14883 | 0.463 | ppbv | 100 |
| 99] | 1,4-Dioxane(sim) | 8.209 | 88 | 4329 | 0.448 | ppbv | 98 |
| 100] | cis-1,3-Dichloropropen... | 8.739 | 75 | 14869 | 0.471 | ppbv | 100 |
| 101] | 1,1,2-Trichloroethane(... | 9.732 | 97 | 12200 | 0.457 | ppbv | 98 |
| 102] | Dibromochloromethane(sim) | 9.937 | 129 | 29904 | 0.475 | ppbv | 100 |
| 103] | 1,2-Dibromoethane(EDB)... | 10.158 | 107 | 21279 | 0.468 | ppbv | 100 |
| 104] | Tetrachloroethene(sim) | 9.504 | 166 | 17596 | 0.470 | ppbv | 99 |
| 106] | Bromoform(sim) | 11.648 | 173 | 24414 | 0.658 | ppbv | 100 |
| 107] | 1,1,1,2-Tetrachloroeth... | 10.939 | 131 | 17948 | 0.471 | ppbv | 98 |
| 108] | Ethylbenzene(sim) | 10.921 | 91 | 41130 | 0.462 | ppb | 99 |
| 109] | m,p-Xylene(sim) | 11.103 | 91 | 57619 | 0.950 | ppbv | 97 |
| 110] | o-Xylene(sim) | 11.600 | 91 | 29007 | 0.457 | ppb | 99 |
| 111] | 1,1,2,2-Tetrachloroeth... | 12.582 | 83 | 26417 | 0.469 | ppbv | 99 |
| 114] | Benzyl chloride(sim) | 13.882 | 91 | 23191 | 0.508 | ppbv | 99 |
| 115] | 1,3-Dichlorobenzene(sim) | 13.535 | 146 | 24326 | 0.461 | ppbv | 98 |
| 116] | 1,4-Dichlorobenzene(sim) | 13.636 | 146 | 25036 | 0.475 | ppbv | 99 |
| 117] | sec-Butylbenzene(sim) | 13.347 | 105 | 46947 | 0.488 | ppbv | 98 |
| 118] | 4-Isopropyltoluene(sim) | 13.532 | 119 | 39832 | 0.493 | ppbv | 99 |
| 119] | 1,2-Dichlorobenzene(sim) | 14.029 | 146 | 19721 | 0.484 | ppbv | 99 |

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM24\03MAR\10\
Data File : 0310_08.D
Acq On : 10 Mar 2021 1:48 pm
Operator : Keith
Client ID : ICAL 0.5
Lab ID : 0.50
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Mar 12 11:29:10 2021
Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 12 10:28:02 2021
Response via : Initial Calibration

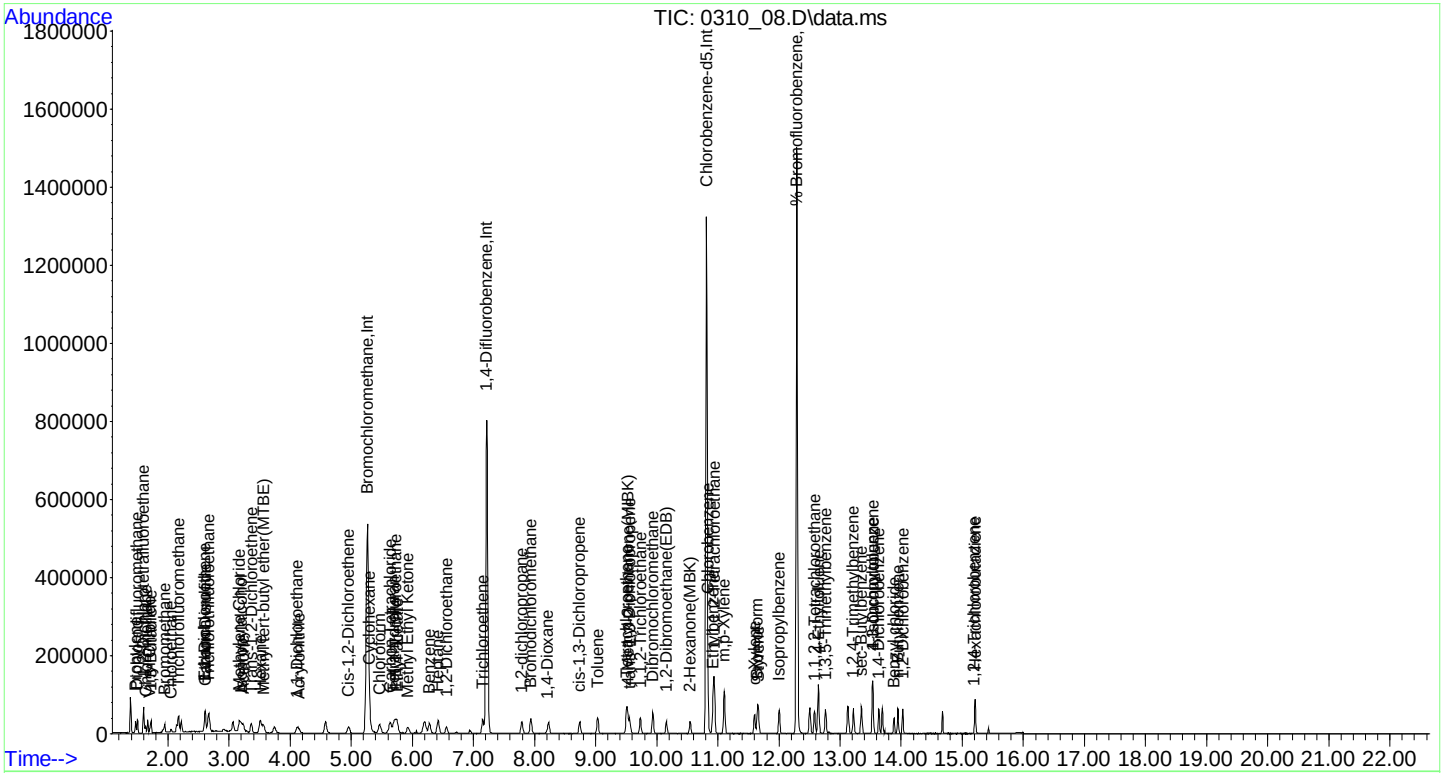
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 120] n-Butylbenzene(sim) | 13.947 | 91 | 30212 | 0.523 | ppbv | 97 |
| 122] Hexachlorobutadiene(sim) | 15.212 | 225 | 9991 | 0.449 | ppbv | 100 |

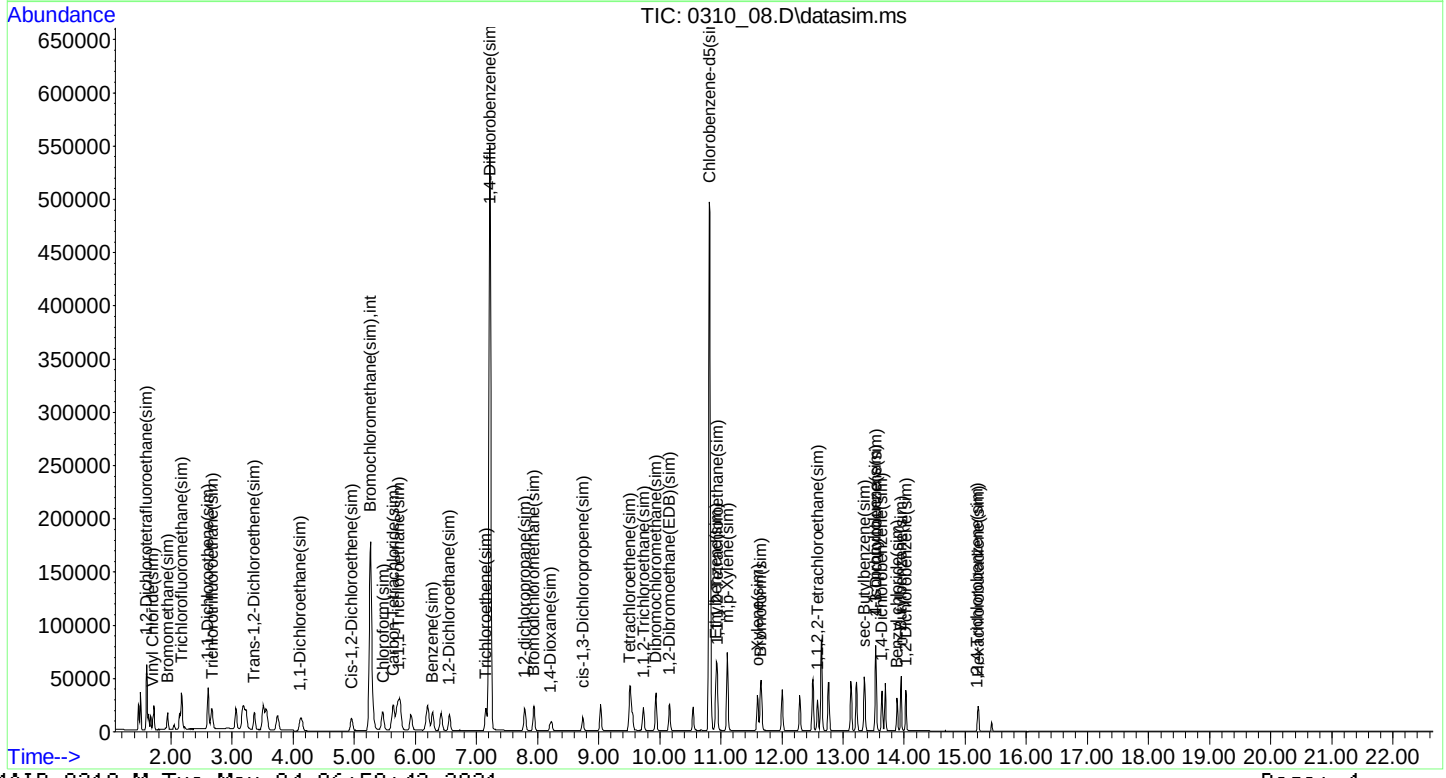
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM24\03MAR\10\
Data File : 0310_08.D
Acq On : 10 Mar 2021 1:48 pm
Operator : Keith
Client ID : ICAL 0.5
Lab ID : 0.50
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Mar 12 11:29:10 2021
Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 12 10:28:02 2021
Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM24\03MAR\10\
Data File : 0310_09.D
Acq On : 10 Mar 2021 2:21 pm
Operator : Keith
Client ID : ICAL 2.5
Lab ID : 2.5
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Mar 12 11:24:26 2021
Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Thu Feb 25 11:04:14 2021
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Bromochloromethane | 5.265 | 130 | 239111 | 10.000 | ng | -0.05 |
| 36) 1,4-Difluorobenzene | 7.218 | 114 | 742576 | 10.000 | ng | -0.04 |
| 53) Chlorobenzene-d5 | 10.815 | 82 | 339216 | 10.000 | ng | -0.03 |
| 80) Bromochloromethane(sim) | 5.268 | 130 | 247774 | 10.000 | ng | #-0.05 |
| 95) 1,4-Difluorobenzene(sim) | 7.218 | 114 | 742576 | 10.000 | ng | -0.04 |
| 105) Chlorobenzene-d5(sim) | 10.815 | 82 | 339216 | 10.000 | ng | -0.03 |
| System Monitoring Compounds | | | | | | |
| 62) % Bromofluorobenzene | 12.290 | 95 | 471150 | 9.920 | ppbv | -0.03 |
| Spiked Amount 10.000 | Range 70 - 130 | | Recovery = 99.20% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Propylene | 1.464 | 41 | 54832 | 2.304 | ppbv | 91 |
| 3) Dichlorodifluoromethane | 1.499 | 85 | 99010 | 2.267 | ppbv | 98 |
| 4) Chloromethane | 1.629 | 50 | 86937 | 2.633 | ppbv | 95 |
| 5) 1,2-Dichlorotetrafluor... | 1.601 | 135 | 93779 | 2.434 | ppbv | 100 |
| 6) Vinyl Chloride | 1.697 | 62 | 47692 | 2.374 | ppbv | 99 |
| 7) 1,3-Butadiene | 1.718 | 54 | 40577 | 2.344 | ppbv | 98 |
| 8) Bromomethane | 1.944 | 94 | 46292 | 2.371 | ppbv | 97 |
| 9) Chloroethane | 2.047 | 64 | 18345 | 2.316 | ppbv | 96 |
| 10) Ethanol | 2.601 | 45 | 24940 | 2.348 | ppbv | 98 |
| 12) Acetone | 3.217 | 43 | 148451 | 2.415 | ppbv | 96 |
| 13) Trichlorofluoromethane | 2.170 | 101 | 151507 | 2.471 | ppbv | 100 |
| 14) Isopropylalcohol | 3.183 | 45 | 131541 | 2.413 | ppbv# | 97 |
| 15) Acrylonitrile | 4.136 | 53 | 37550 | 2.306 | ppbv | 94 |
| 16) 1,1-Dichloroethene | 2.601 | 61 | 88705 | 2.409 | ppbv | 94 |
| 17) Methylene Chloride | 3.169 | 49 | 96070 | 2.527 | ppbv | 88 |
| 20) Carbon Disulfide | 2.608 | 76 | 111348 | 2.360 | ppbv | 99 |
| 21) Trichlorotrifluoroethane | 2.663 | 101 | 102346 | 2.366 | ppbv | 98 |
| 22) Trans-1,2-Dichloroethene | 3.361 | 61 | 77272 | 2.404 | ppbv | 94 |
| 23) 1,1-Dichloroethane | 4.116 | 63 | 90941 | 2.388 | ppbv | 99 |
| 24) Methyl tert-butyl ethe... | 3.545 | 73 | 103664 | 2.366 | ppbv# | 76 |
| 25) Methyl Ethyl Ketone | 5.913 | 43 | 147884 | 2.333 | ppbv | 99 |
| 26) Cis-1,2-Dichloroethene | 4.952 | 61 | 80982 | 2.351 | ppbv | 93 |
| 27) Hexane | 3.511 | 57 | 103889 | 2.434 | ppbv# | 72 |
| 28) Chloroform | 5.466 | 83 | 109759 | 2.414 | ppbv | 98 |
| 29) Ethyl acetate | 5.740 | 43 | 172884 | 2.253 | ppbv | 98 |
| 30) Tetrahydrofuran | 5.676 | 41 | 50198 | 2.395 | ppbv | 91 |
| 31) 1,2-Dichloroethane | 6.553 | 62 | 87796 | 2.444 | ppbv | 99 |
| 32) 1,1,1-Trichloroethane | 5.726 | 97 | 121599 | 2.441 | ppbv | 99 |
| 33) Benzene | 6.280 | 78 | 116267 | 2.342 | ppbv | 96 |
| 34) Carbon Tetrachloride | 5.632 | 117 | 136259 | 2.387 | ppbv | 99 |
| 35) Cyclohexane | 5.293 | 56 | 78630 | 2.347 | ppbv | 95 |
| 37) 1,2-dichloropropane | 7.793 | 63 | 53893 | 2.298 | ppbv | 85 |
| 38) Bromodichloromethane | 7.937 | 83 | 118418 | 2.389 | ppbv | 100 |
| 39) Trichloroethene | 7.156 | 130 | 68497 | 2.295 | ppbv | 93 |
| 41) 1,4-Dioxane | 8.194 | 88 | 22255 | 2.219 | ppbv | 96 |
| 43) Heptane | 6.423 | 43 | 125339 | 2.364 | ppbv | 98 |
| 44) cis-1,3-Dichloropropene | 8.736 | 75 | 72594 | 2.348 | ppbv | 97 |
| 45) 4-Methyl-2-pentanone(M... | 9.523 | 43 | 173758 | 2.401 | ppbv | 95 |
| 46) trans-1,3-Dichloropropene | 9.559 | 75 | 76514 | 2.472 | ppbv | 99 |
| 47) 1,1,2-Trichloroethane | 9.732 | 97 | 61798 | 2.330 | ppbv | 96 |
| 48) Toluene | 9.032 | 91 | 142635 | 2.357 | ppbv | 98 |
| 49) Dibromochloromethane | 9.934 | 129 | 145620 | 2.348 | ppbv | 100 |
| 50) 2-Hexanone(MBK) | 10.541 | 43 | 150887 | 2.266 | ppbv | 97 |
| 51) 1,2-Dibromoethane(EDB) | 10.158 | 107 | 111848 | 2.413 | ppbv | 97 |

Data Path : H:\AIR2021\CHEM24\03MAR\10\
Data File : 0310_09.D
Acq On : 10 Mar 2021 2:21 pm
Operator : Keith
Client ID : ICAL 2.5
Lab ID : 2.5
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Mar 12 11:24:26 2021
Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Thu Feb 25 11:04:14 2021
Response via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 52) | Tetrachloroethene | 9.508 | 166 | 85571 | 2.363 | ppbv | 100 |
| 54) | 1,1,1,2-Tetrachloroethane | 10.939 | 131 | 91671 | 2.401 | ppbv | 98 |
| 55) | Chlorobenzene | 10.836 | 112 | 138796 | 2.383 | ppbv | 88 |
| 56) | Ethylbenzene | 10.918 | 91 | 203843 | 2.395 | ppbv | 100 |
| 57) | m,p-Xylene | 11.104 | 91 | 318429 | 4.975 | ppbv | 99 |
| 58) | Bromoform | 11.646 | 173 | 112822 | 2.172 | ppbv | 99 |
| 59) | Styrene | 11.666 | 104 | 115690 | 2.520 | ppbv | 96 |
| 60) | 1,1,2,2-Tetrachloroethane | 12.582 | 83 | 134561 | 2.413 | ppbv | 100 |
| 61) | o-Xylene | 11.604 | 91 | 154201 | 2.411 | ppbv | 98 |
| 64) | Isopropylbenzene | 12.004 | 105 | 216393 | 2.416 | ppbv | 98 |
| 66) | 4-Ethyltoluene | 12.646 | 105 | 228922 | 2.416 | ppbv | 99 |
| 67) | 1,3,5-Trimethylbenzene | 12.763 | 105 | 178161 | 2.303 | ppbv | 99 |
| 68) | 1,2,4-Trimethylbenzene | 13.217 | 105 | 167248 | 2.264 | ppbv | 100 |
| 70) | Benzyl chloride | 13.886 | 91 | 128160 | 2.447 | ppbv | 99 |
| 71) | 1,3-Dichlorobenzene | 13.535 | 146 | 130365 | 2.423 | ppbv | 100 |
| 72) | 1,4-Dichlorobenzene | 13.633 | 146 | 120825 | 2.400 | ppbv | 98 |
| 73) | sec-Butylbenzene | 13.354 | 105 | 269809 | 2.514 | ppbv | 100 |
| 74) | 4-Isopropyltoluene | 13.529 | 119 | 210618 | 2.454 | ppbv | 98 |
| 75) | 1,2-Dichlorobenzene | 14.029 | 146 | 106009 | 2.469 | ppbv | 98 |
| 76) | n-Butylbenzene | 13.944 | 91 | 160078 | 2.435 | ppbv | 96 |
| 77) | 1,2,4-Trichlorobenzene | 15.197 | 180 | 20166 | 1.054 | ppbv# | 94 |
| 79) | Hexachlorobutadiene | 15.212 | 225 | 47503 | 2.436 | ppbv | 99 |
| 81] | 1,2-Dichlorotetrafluor... | 1.601 | 135 | 93779 | 2.210 | ppbv | 100 |
| 82] | Vinyl Chloride(sim) | 1.700 | 62 | 52047 | 2.296 | ppbv | 99 |
| 83] | Bromomethane(sim) | 1.944 | 94 | 46292 | 2.054 | ppbv | 97 |
| 84] | Trichlorofluoromethane... | 2.173 | 101 | 157957 | 2.242 | ppbv | 100 |
| 85] | 1,1,1-Trichloroethane(... | 5.726 | 97 | 121599 | 2.328 | ppbv# | 99 |
| 86] | Benzene(sim) | 6.282 | 78 | 129127 | 2.239 | ppbv | 97 |
| 87] | Carbon Tetrachloride(sim) | 5.632 | 117 | 136259 | 2.261 | ppbv | 98 |
| 88] | 1,1-Dichloroethene(sim) | 2.604 | 61 | 95299 | 2.228 | ppbv | 96 |
| 89] | Trichlorotrifluoroetha... | 2.663 | 101 | 102346 | 2.190 | ppbv | 99 |
| 90] | Trans-1,2-Dichloroethe... | 3.364 | 61 | 83471 | 2.263 | ppbv | 98 |
| 91] | 1,1-Dichloroethane(sim) | 4.116 | 63 | 90941 | 2.143 | ppbv | 99 |
| 92] | Cis-1,2-Dichloroethene... | 4.955 | 61 | 88315 | 2.359 | ppbv | 99 |
| 93] | Chloroform(sim) | 5.466 | 83 | 109759 | 2.241 | ppbv | 98 |
| 94] | 1,2-Dichloroethane(sim) | 6.556 | 62 | 94490 | 2.272 | ppbv | 99 |
| 96] | 1,2-dichloropropane(sim) | 7.789 | 63 | 59681 | 2.204 | ppbv | 87 |
| 97] | Bromodichloromethane(sim) | 7.937 | 83 | 118418 | 2.284 | ppbv | 100 |
| 98] | Trichloroethene(sim) | 7.152 | 130 | 74396 | 2.231 | ppbv | 99 |
| 99] | 1,4-Dioxane(sim) | 8.194 | 88 | 22255 | 2.222 | ppbv# | 96 |
| 100] | cis-1,3-Dichloropropen... | 8.739 | 75 | 80060 | 2.447 | ppbv | 99 |
| 101] | 1,1,2-Trichloroethane(... | 9.732 | 97 | 61798 | 2.232 | ppbv | 96 |
| 102] | Dibromochloromethane(sim) | 9.937 | 129 | 148435 | 2.272 | ppbv | 100 |
| 103] | 1,2-Dibromoethane(EDB)... | 10.158 | 107 | 111808 | 2.372 | ppbv | 97 |
| 104] | Tetrachloroethene(sim) | 9.511 | 166 | 88627 | 2.282 | ppbv | 98 |
| 106] | Bromoform(sim) | 11.649 | 173 | 113404 | 2.324 | ppbv | 100 |
| 107] | 1,1,1,2-Tetrachloroeth... | 10.939 | 131 | 91671 | 2.310 | ppbv | 98 |
| 108] | Ethylbenzene(sim) | 10.921 | 91 | 220903 | 2.381 | ppb | 99 |
| 109] | m,p-Xylene(sim) | 11.104 | 91 | 318400 | 5.040 | ppbv | 99 |
| 110] | o-Xylene(sim) | 11.600 | 91 | 166553 | 2.521 | ppb | 98 |
| 111] | 1,1,2,2-Tetrachloroeth... | 12.582 | 83 | 134561 | 2.293 | ppbv | 99 |
| 114] | Benzyl chloride(sim) | 13.882 | 91 | 138468 | 2.912 | ppbv | 99 |
| 115] | 1,3-Dichlorobenzene(sim) | 13.535 | 146 | 130365 | 2.373 | ppbv | 100 |
| 116] | 1,4-Dichlorobenzene(sim) | 13.636 | 146 | 135555 | 2.467 | ppbv | 99 |
| 117] | sec-Butylbenzene(sim) | 13.354 | 105 | 269568 | 2.693 | ppbv | 100 |
| 118] | 4-Isopropyltoluene(sim) | 13.532 | 119 | 232558 | 2.764 | ppbv | 99 |
| 119] | 1,2-Dichlorobenzene(sim) | 14.029 | 146 | 105963 | 2.495 | ppbv | 98 |

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM24\03MAR\10\
Data File : 0310_09.D
Acq On : 10 Mar 2021 2:21 pm
Operator : Keith
Client ID : ICAL 2.5
Lab ID : 2.5
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Mar 12 11:24:26 2021
Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Thu Feb 25 11:04:14 2021
Response via : Initial Calibration

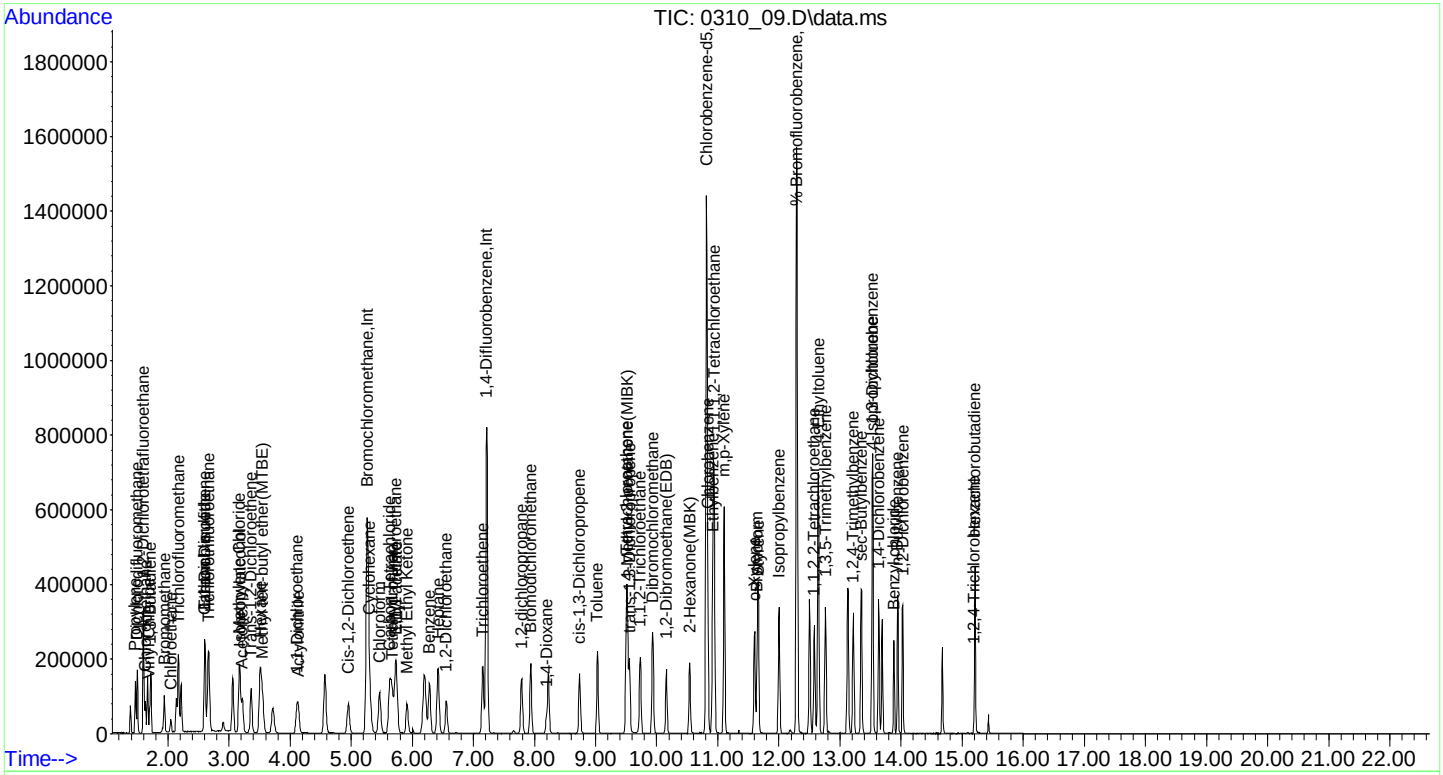
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 120] n-Butylbenzene(sim) | 13.947 | 91 | 170135 | 2.827 | ppbv | 99 |
| 121] 1,2,4-Trichlorobenzene... | 15.197 | 180 | 20002 | 1.590 | ppbv | 94 |
| 122] Hexachlorobutadiene(sim) | 15.215 | 225 | 50293 | 2.172 | ppbv | 100 |

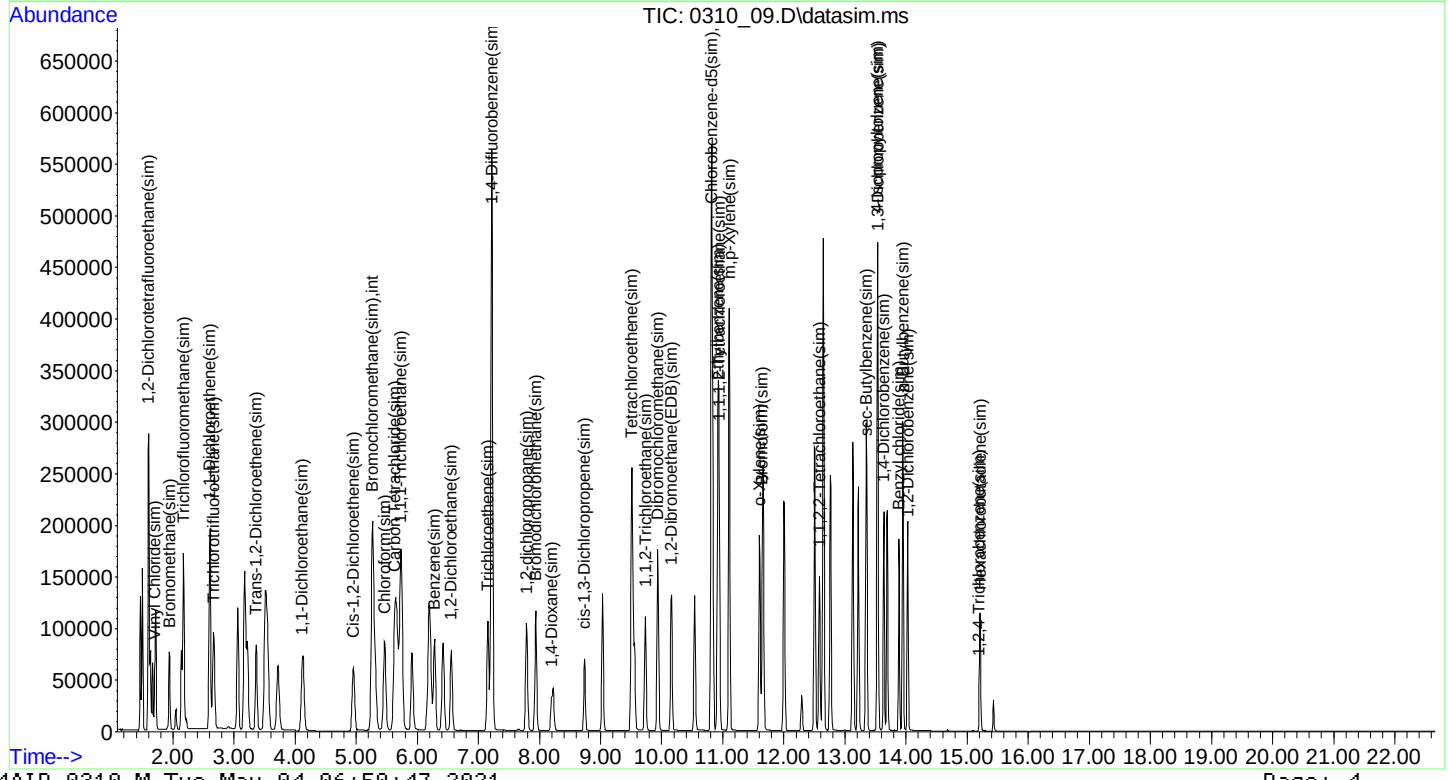
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM24\03MAR\10\
Data File : 0310_09.D
Acq On : 10 Mar 2021 2:21 pm
Operator : Keith
Client ID : ICAL 2.5
Lab ID : 2.5
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Mar 12 11:24:26 2021
Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Thu Feb 25 11:04:14 2021
Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM24\03MAR\10\
Data File : 0310_10.D
Acq On : 10 Mar 2021 2:50 pm
Operator : Keith
Client ID : ICAL 5
Lab ID : 5.0
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Mar 12 11:25:50 2021
Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 12 10:25:37 2021
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Bromochloromethane | 5.265 | 130 | 243477 | 10.000 | ng | | 0.00 |
| 36) 1,4-Difluorobenzene | 7.218 | 114 | 754278 | 10.000 | ng | | 0.00 |
| 53) Chlorobenzene-d5 | 10.815 | 82 | 346423 | 10.000 | ng | | 0.00 |
| 80) Bromochloromethane(sim) | 5.267 | 130 | 254190 | 10.000 | ng | # | 0.00 |
| 95) 1,4-Difluorobenzene(sim) | 7.218 | 114 | 754278 | 10.000 | ng | | 0.00 |
| 105) Chlorobenzene-d5(sim) | 10.815 | 82 | 346423 | 10.000 | ng | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 62) % Bromofluorobenzene | 12.296 | 95 | 485725 | 10.095 | ppbv | | 0.00 |
| Spiked Amount 10.000 | Range 70 - 130 | | Recovery = 100.90% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) Propylene | 1.464 | 41 | 135303 | 5.583 | ppbv | | 99 |
| 3) Dichlorodifluoromethane | 1.499 | 85 | 285100 | 6.412 | ppbv | | 98 |
| 4) Chloromethane | 1.629 | 50 | 201132 | 5.982 | ppbv | | 100 |
| 5) 1,2-Dichlorotetrafluor... | 1.601 | 135 | 218584 | 5.573 | ppbv | | 99 |
| 6) Vinyl Chloride | 1.704 | 62 | 111015 | 5.426 | ppbv | | 99 |
| 7) 1,3-Butadiene | 1.718 | 54 | 97060 | 5.507 | ppbv | | 97 |
| 8) Bromomethane | 1.944 | 94 | 104837 | 5.274 | ppbv | | 99 |
| 9) Chloroethane | 2.047 | 64 | 42976 | 5.328 | ppbv | | 99 |
| 10) Ethanol | 2.601 | 45 | 62604 | 5.787 | ppbv | | 97 |
| 12) Acetone | 3.217 | 43 | 337004 | 5.384 | ppbv | | 100 |
| 13) Trichlorofluoromethane | 2.170 | 101 | 340265 | 5.451 | ppbv | | 99 |
| 14) Isopropylalcohol | 3.183 | 45 | 325467 | 5.864 | ppbv | | 92 |
| 15) Acrylonitrile | 4.136 | 53 | 90513 | 5.459 | ppbv | | 96 |
| 16) 1,1-Dichloroethene | 2.601 | 61 | 203494 | 5.426 | ppbv | | 100 |
| 17) Methylene Chloride | 3.169 | 49 | 216650 | 5.596 | ppbv | | 99 |
| 20) Carbon Disulfide | 2.608 | 76 | 261478 | 5.442 | ppbv | | 100 |
| 21) Trichlorotrifluoroethane | 2.670 | 101 | 237254 | 5.387 | ppbv | | 98 |
| 22) Trans-1,2-Dichloroethene | 3.361 | 61 | 180722 | 5.522 | ppbv | | 99 |
| 23) 1,1-Dichloroethane | 4.116 | 63 | 208397 | 5.374 | ppbv | | 99 |
| 24) Methyl tert-butyl ethe... | 3.545 | 73 | 244385 | 5.477 | ppbv | | 98 |
| 25) Methyl Ethyl Ketone | 5.913 | 43 | 352108 | 5.456 | ppbv | | 100 |
| 26) Cis-1,2-Dichloroethene | 4.957 | 61 | 194699 | 5.551 | ppbv | | 100 |
| 27) Hexane | 3.511 | 57 | 240732 | 5.540 | ppbv | | 100 |
| 28) Chloroform | 5.466 | 83 | 255999 | 5.530 | ppbv | | 99 |
| 29) Ethyl acetate | 5.740 | 43 | 414476 | 5.303 | ppbv | | 97 |
| 30) Tetrahydrofuran | 5.668 | 41 | 115128 | 5.395 | ppbv | | 96 |
| 31) 1,2-Dichloroethane | 6.560 | 62 | 202364 | 5.532 | ppbv | | 99 |
| 32) 1,1,1-Trichloroethane | 5.726 | 97 | 278340 | 5.488 | ppbv | | 99 |
| 33) Benzene | 6.286 | 78 | 271953 | 5.381 | ppbv | | 98 |
| 34) Carbon Tetrachloride | 5.639 | 117 | 315981 | 5.435 | ppbv | | 99 |
| 35) Cyclohexane | 5.301 | 56 | 185116 | 5.427 | ppbv | | 100 |
| 37) 1,2-dichloropropane | 7.793 | 63 | 129989 | 5.458 | ppbv | | 94 |
| 38) Bromodichloromethane | 7.944 | 83 | 279665 | 5.554 | ppbv | | 99 |
| 39) Trichloroethene | 7.156 | 130 | 165124 | 5.447 | ppbv | | 97 |
| 41) 1,4-Dioxane | 8.194 | 88 | 61243 | 6.012 | ppbv | | 97 |
| 43) Heptane | 6.423 | 43 | 301313 | 5.595 | ppbv | | 99 |
| 44) cis-1,3-Dichloropropene | 8.743 | 75 | 172415 | 5.490 | ppbv | | 100 |
| 45) 4-Methyl-2-pentanone(M... | 9.522 | 43 | 431681 | 5.874 | ppbv | | 99 |
| 46) trans-1,3-Dichloropropene | 9.559 | 75 | 181827 | 5.783 | ppbv | | 99 |
| 47) 1,1,2-Trichloroethane | 9.732 | 97 | 144433 | 5.361 | ppbv | | 98 |
| 48) Toluene | 9.032 | 91 | 342904 | 5.579 | ppbv | | 99 |
| 49) Dibromochloromethane | 9.934 | 129 | 345445 | 5.484 | ppbv | | 100 |
| 50) 2-Hexanone(MBK) | 10.541 | 43 | 406900 | 6.015 | ppbv | | 99 |
| 51) 1,2-Dibromoethane(EDB) | 10.158 | 107 | 262673 | 5.579 | ppbv | | 99 |

Data Path : H:\AIR2021\CHEM24\03MAR\10\
Data File : 0310_10.D
Acq On : 10 Mar 2021 2:50 pm
Operator : Keith
Client ID : ICAL 5
Lab ID : 5.0
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Mar 12 11:25:50 2021
Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 12 10:25:37 2021
Response via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 52) | Tetrachloroethene | 9.508 | 166 | 195887 | 5.325 | ppbv | 99 |
| 54) | 1,1,1,2-Tetrachloroethane | 10.939 | 131 | 212387 | 5.447 | ppbv | 100 |
| 55) | Chlorobenzene | 10.836 | 112 | 322439 | 5.420 | ppbv | 98 |
| 56) | Ethylbenzene | 10.918 | 91 | 481647 | 5.542 | ppbv | 99 |
| 57) | m,p-Xylene | 11.103 | 91 | 756214 | 11.568 | ppbv | 100 |
| 58) | Bromoform | 11.652 | 173 | 291858 | 5.503 | ppbv | 99 |
| 59) | Styrene | 11.666 | 104 | 285691 | 6.094 | ppbv | 99 |
| 60) | 1,1,2,2-Tetrachloroethane | 12.582 | 83 | 310431 | 5.451 | ppbv | 100 |
| 61) | o-Xylene | 11.604 | 91 | 377676 | 5.782 | ppbv | 99 |
| 64) | Isopropylbenzene | 12.004 | 105 | 536499 | 5.865 | ppbv | 99 |
| 66) | 4-Ethyltoluene | 12.646 | 105 | 574773 | 5.941 | ppbv | 100 |
| 67) | 1,3,5-Trimethylbenzene | 12.763 | 105 | 469127 | 5.938 | ppbv | 100 |
| 68) | 1,2,4-Trimethylbenzene | 13.217 | 105 | 467442 | 6.196 | ppbv | 100 |
| 70) | Benzyl chloride | 13.886 | 91 | 336434 | 6.290 | ppbv | 99 |
| 71) | 1,3-Dichlorobenzene | 13.535 | 146 | 320373 | 5.830 | ppbv | 100 |
| 72) | 1,4-Dichlorobenzene | 13.633 | 146 | 305904 | 5.950 | ppbv | 100 |
| 73) | sec-Butylbenzene | 13.347 | 105 | 649286 | 5.923 | ppbv | 99 |
| 74) | 4-Isopropyltoluene | 13.529 | 119 | 542646 | 6.191 | ppbv | 100 |
| 75) | 1,2-Dichlorobenzene | 14.029 | 146 | 255001 | 5.816 | ppbv | 99 |
| 76) | n-Butylbenzene | 13.944 | 91 | 418040 | 6.227 | ppbv | 98 |
| 79) | Hexachlorobutadiene | 15.212 | 225 | 107674 | 5.406 | ppbv | 100 |
| 81] | 1,2-Dichlorotetrafluor... | 1.601 | 135 | 218511 | 5.019 | ppbv | 99 |
| 82] | Vinyl Chloride(sim) | 1.700 | 62 | 121758 | 5.236 | ppbv | 100 |
| 83] | Bromomethane(sim) | 1.944 | 94 | 104837 | 4.535 | ppbv | 99 |
| 84] | Trichlorofluoromethane... | 2.173 | 101 | 357889 | 4.951 | ppbv | 100 |
| 85] | 1,1,1-Trichloroethane(... | 5.726 | 97 | 278340 | 5.194 | ppbv# | 99 |
| 86] | Benzene(sim) | 6.282 | 78 | 295287 | 4.992 | ppbv | 99 |
| 87] | Carbon Tetrachloride(sim) | 5.639 | 117 | 315933 | 5.110 | ppbv | 99 |
| 88] | 1,1-Dichloroethene(sim) | 2.604 | 61 | 218030 | 4.969 | ppbv | 100 |
| 89] | Trichlorotrifluoroetha... | 2.670 | 101 | 236945 | 4.941 | ppbv | 97 |
| 90] | Trans-1,2-Dichloroethe... | 3.364 | 61 | 195365 | 5.163 | ppbv | 100 |
| 91] | 1,1-Dichloroethane(sim) | 4.116 | 63 | 208397 | 4.786 | ppbv | 99 |
| 92] | Cis-1,2-Dichloroethene... | 4.960 | 61 | 208511 | 5.429 | ppbv | 97 |
| 93] | Chloroform(sim) | 5.466 | 83 | 255890 | 5.093 | ppbv | 99 |
| 94] | 1,2-Dichloroethane(sim) | 6.556 | 62 | 219405 | 5.142 | ppbv | 100 |
| 96] | 1,2-dichloropropane(sim) | 7.789 | 63 | 140088 | 5.094 | ppbv | 98 |
| 97] | Bromodichloromethane(sim) | 7.944 | 83 | 279621 | 5.309 | ppbv | 99 |
| 98] | Trichloroethene(sim) | 7.159 | 130 | 176237 | 5.203 | ppbv | 100 |
| 99] | 1,4-Dioxane(sim) | 8.194 | 88 | 61243 | 6.021 | ppbv | 97 |
| 100] | cis-1,3-Dichloropropen... | 8.739 | 75 | 189703 | 5.707 | ppbv | 100 |
| 101] | 1,1,2-Trichloroethane(... | 9.732 | 97 | 144433 | 5.137 | ppbv | 98 |
| 102] | Dibromochloromethane(sim) | 9.937 | 129 | 354343 | 5.340 | ppbv | 100 |
| 103] | 1,2-Dibromoethane(EDB)... | 10.158 | 107 | 262673 | 5.486 | ppbv | 99 |
| 104] | Tetrachloroethene(sim) | 9.511 | 166 | 205244 | 5.203 | ppbv | 100 |
| 107] | 1,1,1,2-Tetrachloroeth... | 10.939 | 131 | 212387 | 5.241 | ppbv | 100 |
| 108] | Ethylbenzene(sim) | 10.921 | 91 | 516713 | 5.454 | ppb | 100 |
| 109] | m,p-Xylene(sim) | 11.103 | 91 | 755825 | 11.716 | ppbv | 100 |
| 110] | o-Xylene(sim) | 11.600 | 91 | 410887 | 6.089 | ppb | 100 |
| 111] | 1,1,2,2-Tetrachloroeth... | 12.582 | 83 | 310431 | 5.180 | ppbv | 100 |
| 114] | Benzyl chloride(sim) | 13.882 | 91 | 361027 | 7.434 | ppbv | 100 |
| 115] | 1,3-Dichlorobenzene(sim) | 13.535 | 146 | 320373 | 5.711 | ppbv | 100 |
| 116] | 1,4-Dichlorobenzene(sim) | 13.636 | 146 | 342427 | 6.103 | ppbv | 100 |
| 117] | sec-Butylbenzene(sim) | 13.347 | 105 | 649153 | 6.349 | ppbv | 99 |
| 118] | 4-Isopropyltoluene(sim) | 13.532 | 119 | 598918 | 6.970 | ppbv | 100 |
| 119] | 1,2-Dichlorobenzene(sim) | 14.029 | 146 | 255001 | 5.878 | ppbv | 100 |
| 120] | n-Butylbenzene(sim) | 13.947 | 91 | 455738 | 7.415 | ppbv | 99 |
| 122] | Hexachlorobutadiene(sim) | 15.215 | 225 | 114830 | 4.856 | ppbv | 100 |

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM24\03MAR\10\
Data File : 0310_10.D
Acq On : 10 Mar 2021 2:50 pm
Operator : Keith
Client ID : ICAL 5
Lab ID : 5.0
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Mar 12 11:25:50 2021
Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 12 10:25:37 2021
Response via : Initial Calibration

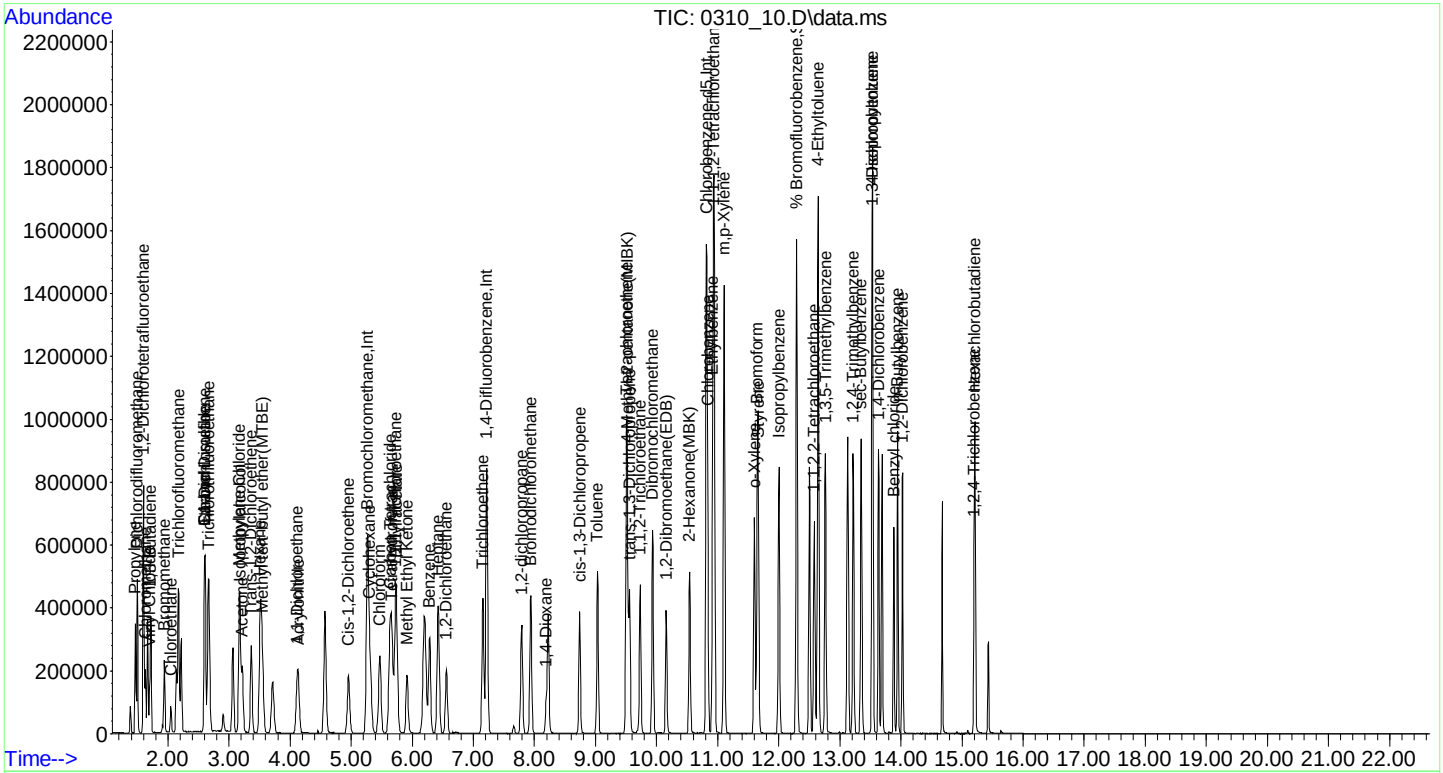
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

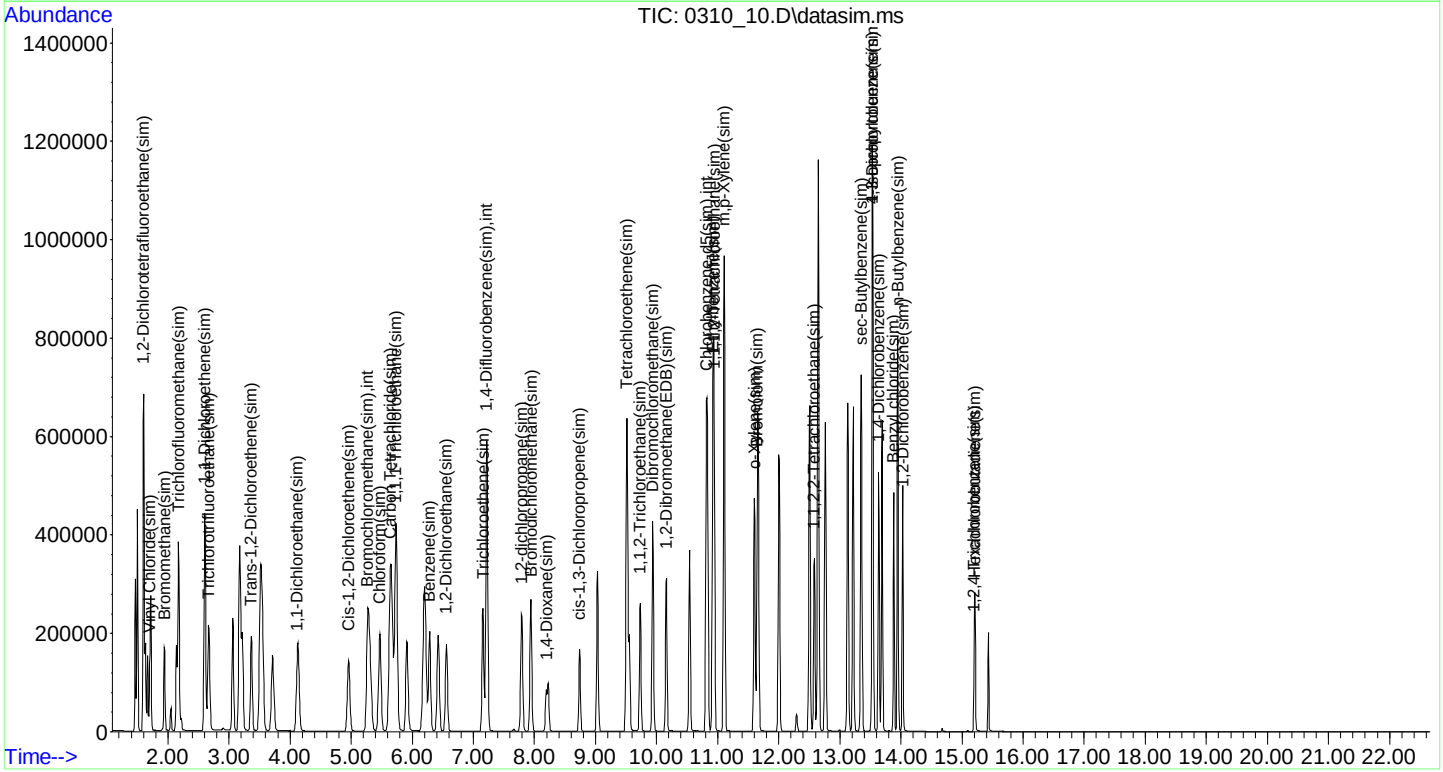
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM24\03MAR\10\
Data File : 0310_10.D
Acq On : 10 Mar 2021 2:50 pm
Operator : Keith
Client ID : ICAL 5
Lab ID : 5.0
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Mar 12 11:25:50 2021
Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 12 10:25:37 2021
Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM24\03MAR\10\
Data File : 0310_11.D
Acq On : 10 Mar 2021 3:23 pm
Operator : Keith
Client ID : ICAL 25
Lab ID : 25
ALS Vial : 55 Sample Multiplier: 1

Quant Time: Mar 12 11:26:16 2021
Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 12 10:26:04 2021
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Bromochloromethane | 5.272 | 130 | 260135 | 10.000 | ng | | 0.00 |
| 36) 1,4-Difluorobenzene | 7.224 | 114 | 798759 | 10.000 | ng | | 0.00 |
| 53) Chlorobenzene-d5 | 10.815 | 82 | 370220 | 10.000 | ng | | 0.00 |
| 80) Bromochloromethane(sim) | 5.275 | 130 | 271620 | 10.000 | ng | # | 0.00 |
| 95) 1,4-Difluorobenzene(sim) | 7.224 | 114 | 798759 | 10.000 | ng | | 0.00 |
| 105) Chlorobenzene-d5(sim) | 10.815 | 82 | 370220 | 10.000 | ng | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 62) % Bromofluorobenzene | 12.296 | 95 | 533290 | 10.322 | ppbv | | 0.00 |
| Spiked Amount 10.000 | Range 70 - 130 | | Recovery = 103.20% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) Propylene | 1.464 | 41 | 632963 | 24.445 | ppbv | | 99 |
| 3) Dichlorodifluoromethane | 1.499 | 85 | 983264 | 20.698 | ppbv | | 99 |
| 4) Chloromethane | 1.629 | 50 | 952611 | 26.517 | ppbv | | 99 |
| 5) 1,2-Dichlorotetrafluor... | 1.601 | 135 | 1037220 | 24.749 | ppbv | | 99 |
| 6) Vinyl Chloride | 1.704 | 62 | 546273 | 24.990 | ppbv | | 99 |
| 7) 1,3-Butadiene | 1.725 | 54 | 479418 | 25.458 | ppbv | | 98 |
| 8) Bromomethane | 1.944 | 94 | 518535 | 24.414 | ppbv | | 99 |
| 9) Chloroethane | 2.047 | 64 | 207302 | 24.055 | ppbv | | 98 |
| 10) Ethanol | 2.595 | 45 | 256613 | 22.202 | ppbv | | 99 |
| 12) Acetone | 3.217 | 43 | 1559387 | 23.319 | ppbv | | 99 |
| 13) Trichlorofluoromethane | 2.177 | 101 | 1622438 | 24.326 | ppbv | | 99 |
| 14) Isopropylalcohol | 3.183 | 45 | 1374565 | 23.179 | ppbv | | 91 |
| 15) Acrylonitrile | 4.141 | 53 | 447513 | 25.261 | ppbv | | 99 |
| 16) 1,1-Dichloroethene | 2.608 | 61 | 962283 | 24.016 | ppbv | | 98 |
| 17) Methylene Chloride | 3.169 | 49 | 1022319 | 24.717 | ppbv | | 99 |
| 20) Carbon Disulfide | 2.615 | 76 | 1262426 | 24.592 | ppbv | | 99 |
| 21) Trichlorotrifluoroethane | 2.670 | 101 | 1121519 | 23.836 | ppbv | | 99 |
| 22) Trans-1,2-Dichloroethene | 3.367 | 61 | 885275 | 25.320 | ppbv | | 99 |
| 23) 1,1-Dichloroethane | 4.121 | 63 | 991802 | 23.939 | ppbv | | 100 |
| 24) Methyl tert-butyl ethe... | 3.538 | 73 | 1199727 | 25.166 | ppbv | | 98 |
| 25) Methyl Ethyl Ketone | 5.913 | 43 | 1739943 | 25.235 | ppbv | | 100 |
| 26) Cis-1,2-Dichloroethene | 4.962 | 61 | 958120 | 25.568 | ppbv | | 98 |
| 27) Hexane | 3.518 | 57 | 1192303 | 25.680 | ppbv | | 97 |
| 28) Chloroform | 5.474 | 83 | 1209436 | 24.454 | ppbv | | 99 |
| 29) Ethyl acetate | 5.740 | 43 | 2000580 | 23.959 | ppbv | | 98 |
| 30) Tetrahydrofuran | 5.661 | 41 | 555436 | 24.361 | ppbv | | 99 |
| 31) 1,2-Dichloroethane | 6.560 | 62 | 982739 | 25.143 | ppbv | | 100 |
| 32) 1,1,1-Trichloroethane | 5.733 | 97 | 1333289 | 24.604 | ppbv | | 100 |
| 33) Benzene | 6.286 | 78 | 1324155 | 24.522 | ppbv | | 99 |
| 34) Carbon Tetrachloride | 5.639 | 117 | 1534106 | 24.699 | ppbv | | 99 |
| 35) Cyclohexane | 5.308 | 56 | 911641 | 25.014 | ppbv | | 98 |
| 37) 1,2-dichloropropane | 7.793 | 63 | 638049 | 25.298 | ppbv | | 98 |
| 38) Bromodichloromethane | 7.944 | 83 | 1384479 | 25.966 | ppbv | | 100 |
| 39) Trichloroethene | 7.156 | 130 | 827630 | 25.781 | ppbv | | 99 |
| 41) 1,4-Dioxane | 8.187 | 88 | 276492 | 25.631 | ppbv | | 99 |
| 43) Heptane | 6.423 | 43 | 1511769 | 26.510 | ppbv | | 99 |
| 44) cis-1,3-Dichloropropene | 8.743 | 75 | 904919 | 27.208 | ppbv | | 100 |
| 45) 4-Methyl-2-pentanone(M... | 9.522 | 43 | 2193021 | 28.177 | ppbv | | 99 |
| 46) trans-1,3-Dichloropropene | 9.559 | 75 | 915921 | 27.508 | ppbv | | 100 |
| 47) 1,1,2-Trichloroethane | 9.732 | 97 | 717441 | 25.146 | ppbv | | 99 |
| 48) Toluene | 9.039 | 91 | 1732307 | 26.617 | ppbv | | 99 |
| 49) Dibromochloromethane | 9.941 | 129 | 1788633 | 26.812 | ppbv | | 100 |
| 50) 2-Hexanone(MBK) | 10.541 | 43 | 2101028 | 29.331 | ppbv | | 99 |
| 51) 1,2-Dibromoethane(EDB) | 10.158 | 107 | 1333419 | 26.742 | ppbv | | 99 |

Data Path : H:\AIR2021\CHEM24\03MAR\10\
Data File : 0310_11.D
Acq On : 10 Mar 2021 3:23 pm
Operator : Keith
Client ID : ICAL 25
Lab ID : 25
ALS Vial : 55 Sample Multiplier: 1

Quant Time: Mar 12 11:26:16 2021
Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 12 10:26:04 2021
Response via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 52) | Tetrachloroethene | 9.508 | 166 | 991925 | 25.462 | ppbv | 99 |
| 54) | 1,1,1,2-Tetrachloroethane | 10.939 | 131 | 1078376 | 25.878 | ppbv | 99 |
| 55) | Chlorobenzene | 10.836 | 112 | 1591350 | 25.032 | ppbv | 99 |
| 56) | Ethylbenzene | 10.925 | 91 | 2471244 | 26.606 | ppbv | 99 |
| 57) | m,p-Xylene | 11.110 | 91 | 3855442 | 55.186 | ppbv | 100 |
| 58) | Bromoform | 11.652 | 173 | 1555142 | 27.435 | ppbv | 99 |
| 59) | Styrene | 11.666 | 104 | 1499673 | 29.931 | ppbv | 99 |
| 60) | 1,1,2,2-Tetrachloroethane | 12.582 | 83 | 1594705 | 26.203 | ppbv | 99 |
| 61) | o-Xylene | 11.604 | 91 | 2003993 | 28.706 | ppbv | 100 |
| 64) | Isopropylbenzene | 12.004 | 105 | 2772876 | 28.363 | ppbv | 100 |
| 66) | 4-Ethyltoluene | 12.653 | 105 | 2971897 | 28.742 | ppbv | 100 |
| 67) | 1,3,5-Trimethylbenzene | 12.763 | 105 | 2425277 | 28.725 | ppbv | 100 |
| 68) | 1,2,4-Trimethylbenzene | 13.224 | 105 | 2403736 | 29.815 | ppbv | 99 |
| 70) | Benzyl chloride | 13.886 | 91 | 1867163 | 32.665 | ppbv | 99 |
| 71) | 1,3-Dichlorobenzene | 13.542 | 146 | 1652634 | 28.140 | ppbv | 100 |
| 72) | 1,4-Dichlorobenzene | 13.639 | 146 | 1578370 | 28.728 | ppbv | 100 |
| 73) | sec-Butylbenzene | 13.354 | 105 | 3328215 | 28.410 | ppbv | 100 |
| 74) | 4-Isopropyltoluene | 13.535 | 119 | 2849679 | 30.420 | ppbv | 100 |
| 75) | 1,2-Dichlorobenzene | 14.029 | 146 | 1342105 | 28.641 | ppbv | 99 |
| 76) | n-Butylbenzene | 13.951 | 91 | 2184924 | 30.454 | ppbv | 99 |
| 79) | Hexachlorobutadiene | 15.214 | 225 | 583292 | 27.404 | ppbv | 100 |
| 81] | 1,2-Dichlorotetrafluor... | 1.601 | 135 | 1034940 | 22.245 | ppbv | 99 |
| 82] | Vinyl Chloride(sim) | 1.700 | 62 | 591819 | 23.817 | ppbv | 100 |
| 83] | Bromomethane(sim) | 1.944 | 94 | 518616 | 20.996 | ppbv | 99 |
| 84] | Trichlorofluoromethane... | 2.180 | 101 | 1694498 | 21.939 | ppbv | 100 |
| 85] | 1,1,1-Trichloroethane(... | 5.733 | 97 | 1334621 | 23.308 | ppbv# | 100 |
| 86] | Benzene(sim) | 6.289 | 78 | 1454492 | 23.010 | ppbv | 99 |
| 87] | Carbon Tetrachloride(sim) | 5.639 | 117 | 1534106 | 23.220 | ppbv | 99 |
| 88] | 1,1-Dichloroethene(sim) | 2.604 | 61 | 1038734 | 22.155 | ppbv | 99 |
| 89] | Trichlorotrifluoroetha... | 2.670 | 101 | 1121519 | 21.888 | ppbv | 99 |
| 90] | Trans-1,2-Dichloroethe... | 3.370 | 61 | 953933 | 23.592 | ppbv | 100 |
| 91] | 1,1-Dichloroethane(sim) | 4.121 | 63 | 991802 | 21.315 | ppbv | 100 |
| 92] | Cis-1,2-Dichloroethene... | 4.960 | 61 | 1032583 | 25.160 | ppbv | 97 |
| 93] | Chloroform(sim) | 5.474 | 83 | 1209436 | 22.527 | ppbv | 99 |
| 94] | 1,2-Dichloroethane(sim) | 6.563 | 62 | 1060003 | 23.250 | ppbv | 100 |
| 96] | 1,2-dichloropropane(sim) | 7.796 | 63 | 689331 | 23.671 | ppbv | 97 |
| 97] | Bromodichloromethane(sim) | 7.944 | 83 | 1384576 | 24.823 | ppbv | 100 |
| 98] | Trichloroethene(sim) | 7.159 | 130 | 878768 | 24.499 | ppbv | 100 |
| 99] | 1,4-Dioxane(sim) | 8.187 | 88 | 276492 | 25.669 | ppbv | 98 |
| 100] | cis-1,3-Dichloropropen... | 8.738 | 75 | 990697 | 28.145 | ppbv | 100 |
| 101] | 1,1,2-Trichloroethane(... | 9.732 | 97 | 717612 | 24.101 | ppbv | 99 |
| 102] | Dibromochloromethane(sim) | 9.937 | 129 | 1821021 | 25.914 | ppbv | 100 |
| 103] | 1,2-Dibromoethane(EDB)... | 10.158 | 107 | 1333419 | 26.297 | ppbv | 99 |
| 104] | Tetrachloroethene(sim) | 9.511 | 166 | 1037787 | 24.845 | ppbv | 100 |
| 106] | Bromoform(sim) | 11.655 | 173 | 1541595 | 14.382 | ppbv | 100 |
| 107] | 1,1,1,2-Tetrachloroeth... | 10.939 | 131 | 1078227 | 24.896 | ppbv | 99 |
| 108] | Ethylbenzene(sim) | 10.928 | 91 | 2627517 | 25.953 | ppb | 99 |
| 109] | m,p-Xylene(sim) | 11.110 | 91 | 3857641 | 55.953 | ppbv | 100 |
| 110] | o-Xylene(sim) | 11.607 | 91 | 2114998 | 29.328 | ppb | 99 |
| 111] | 1,1,2,2-Tetrachloroeth... | 12.582 | 83 | 1594960 | 24.902 | ppbv | 99 |
| 114] | Benzyl chloride(sim) | 13.889 | 91 | 1962810 | 37.817 | ppbv | 100 |
| 115] | 1,3-Dichlorobenzene(sim) | 13.542 | 146 | 1652634 | 27.568 | ppbv | 100 |
| 116] | 1,4-Dichlorobenzene(sim) | 13.642 | 146 | 1760034 | 29.353 | ppbv | 99 |
| 117] | sec-Butylbenzene(sim) | 13.354 | 105 | 3325809 | 30.438 | ppbv | 100 |
| 118] | 4-Isopropyltoluene(sim) | 13.538 | 119 | 3093850 | 33.690 | ppbv | 99 |
| 119] | 1,2-Dichlorobenzene(sim) | 14.029 | 146 | 1342833 | 28.966 | ppbv | 99 |
| 120] | n-Butylbenzene(sim) | 13.947 | 91 | 2340634 | 35.633 | ppbv | 99 |

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM24\03MAR\10\
Data File : 0310_11.D
Acq On : 10 Mar 2021 3:23 pm
Operator : Keith
Client ID : ICAL 25
Lab ID : 25
ALS Vial : 55 Sample Multiplier: 1

Quant Time: Mar 12 11:26:16 2021
Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 12 10:26:04 2021
Response via : Initial Calibration

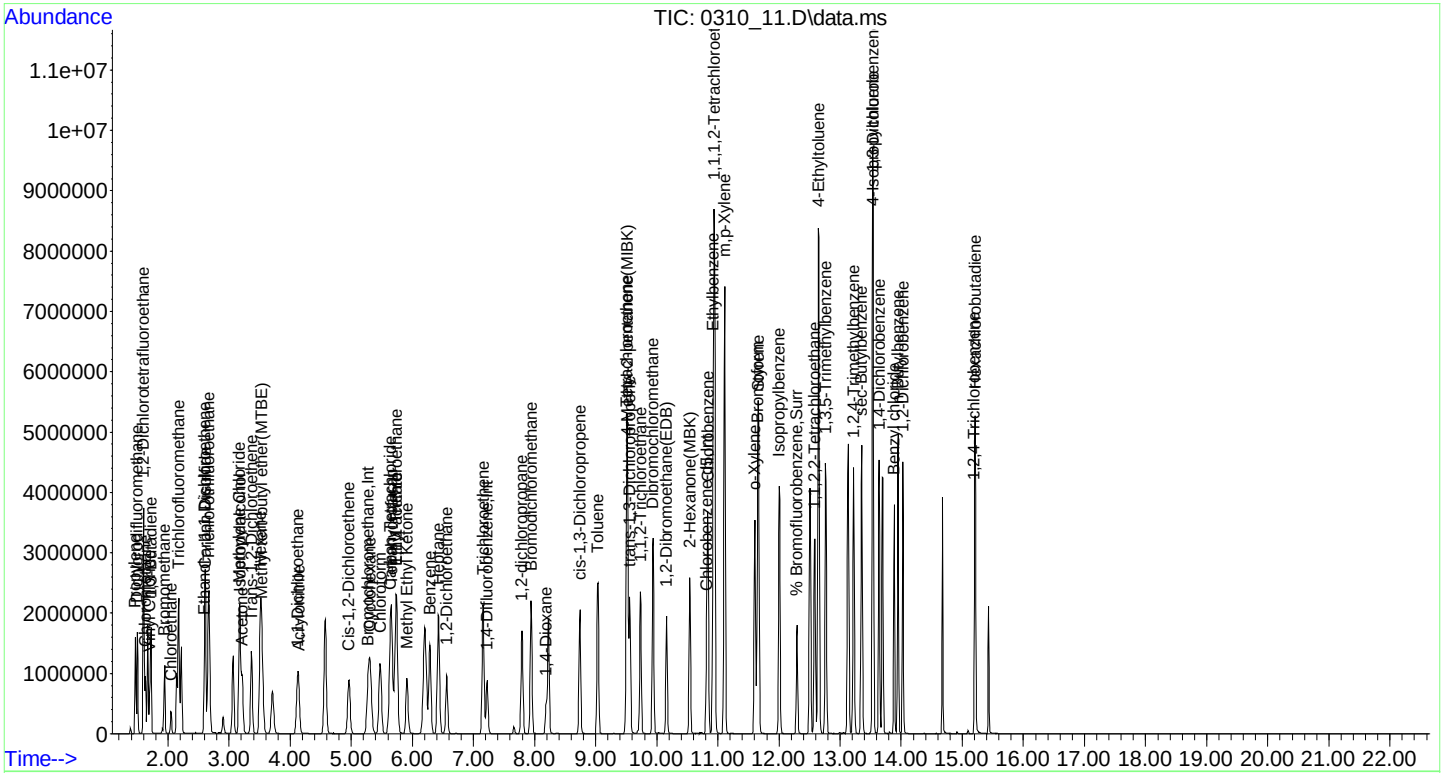
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 122] Hexachlorobutadiene(sim) | 15.217 | 225 | 624245 | 24.704 | ppbv | 100 |

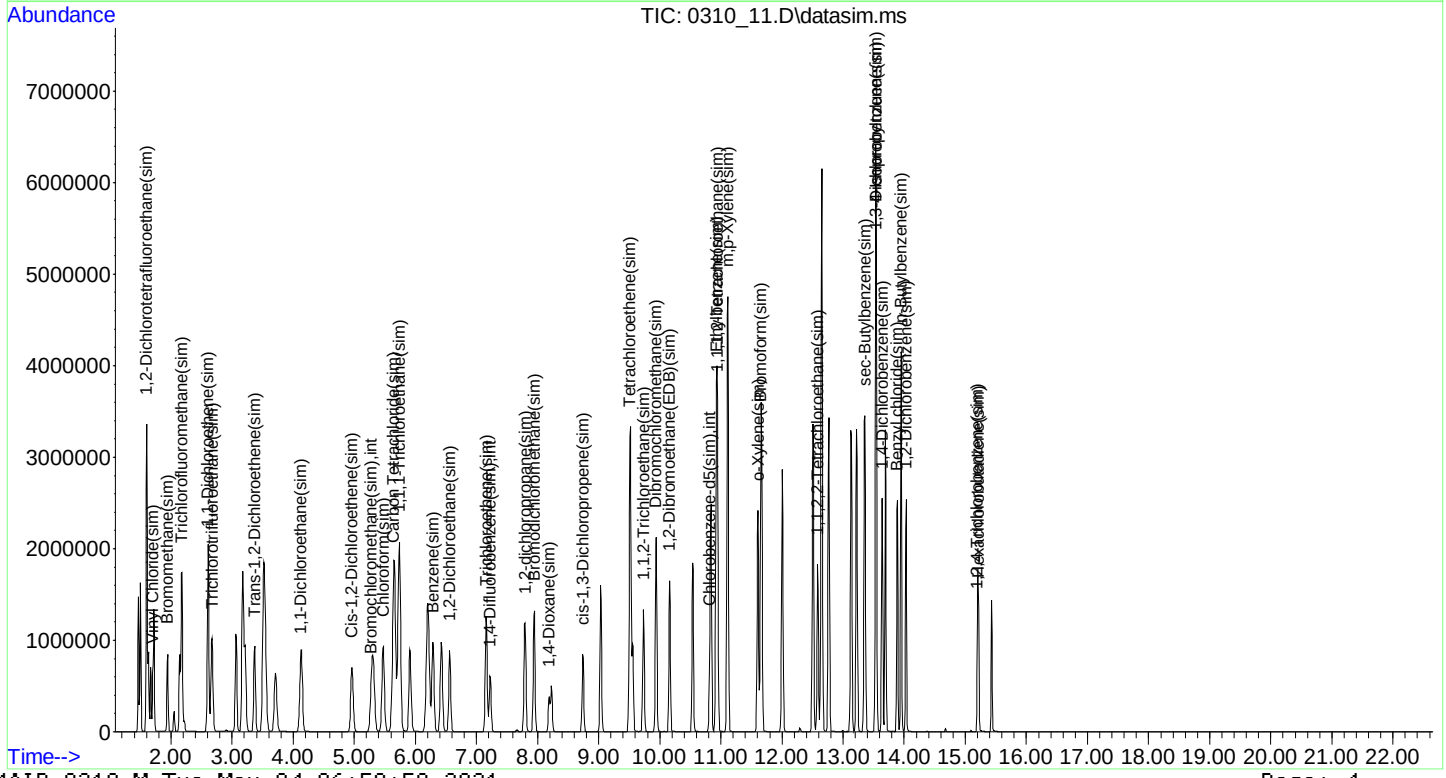
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM24\03MAR\10\
Data File : 0310_11.D
Acq On : 10 Mar 2021 3:23 pm
Operator : Keith
Client ID : ICAL 25
Lab ID : 25
ALS Vial : 55 Sample Multiplier: 1

Quant Time: Mar 12 11:26:16 2021
Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 12 10:26:04 2021
Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM24\03MAR\10\
Data File : 0310_12.D
Acq On : 10 Mar 2021 3:59 pm
Operator : Keith
Client ID : ICAL 40
Lab ID : 40
ALS Vial : 56 Sample Multiplier: 1

Quant Time: Mar 12 11:26:41 2021
Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 12 10:26:28 2021
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Bromochloromethane | 5.272 | 130 | 286481 | 10.000 | ng | | 0.00 |
| 36) 1,4-Difluorobenzene | 7.225 | 114 | 853333 | 10.000 | ng | | 0.00 |
| 53) Chlorobenzene-d5 | 10.822 | 82 | 403308 | 10.000 | ng | | 0.00 |
| 80) Bromochloromethane(sim) | 5.275 | 130 | 293951 | 10.000 | ng | # | 0.00 |
| 95) 1,4-Difluorobenzene(sim) | 7.225 | 114 | 853333 | 10.000 | ng | | 0.00 |
| 105) Chlorobenzene-d5(sim) | 10.822 | 82 | 403308 | 10.000 | ng | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 62) % Bromofluorobenzene | 12.296 | 95 | 552358 | 9.710 | ppbv | | 0.00 |
| Spiked Amount 10.000 | Range 70 - 130 | | Recovery = | 97.10% | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) Propylene | 1.471 | 41 | 1051525 | 36.875 | ppbv | | 99 |
| 3) Dichlorodifluoromethane | 1.499 | 85 | 1434804 | 27.425 | ppbv | | 100 |
| 4) Chloromethane | 1.636 | 50 | 1531750 | 38.717 | ppbv | | 98 |
| 5) 1,2-Dichlorotetrafluor... | 1.601 | 135 | 1472467 | 31.904 | ppbv | | 99 |
| 6) Vinyl Chloride | 1.704 | 62 | 932011 | 38.715 | ppbv | | 99 |
| 7) 1,3-Butadiene | 1.725 | 54 | 808953 | 39.006 | ppbv | | 99 |
| 8) Bromomethane | 1.944 | 94 | 888531 | 37.987 | ppbv | | 100 |
| 9) Chloroethane | 2.054 | 64 | 355873 | 37.497 | ppbv | | 99 |
| 10) Ethanol | 2.595 | 45 | 436833 | 34.319 | ppbv | | 99 |
| 12) Acetone | 3.217 | 43 | 2380957 | 32.330 | ppbv | | 100 |
| 13) Trichlorofluoromethane | 2.177 | 101 | 2661087 | 36.230 | ppbv | | 99 |
| 14) Isopropylalcohol | 3.183 | 45 | 2103867 | 32.214 | ppbv | | 100 |
| 15) Acrylonitrile | 4.146 | 53 | 787824 | 40.380 | ppbv | | 99 |
| 16) 1,1-Dichloroethene | 2.608 | 61 | 1655379 | 37.515 | ppbv | | 99 |
| 17) Methylene Chloride | 3.176 | 49 | 1505758 | 33.057 | ppbv | | 95 |
| 20) Carbon Disulfide | 2.615 | 76 | 2213103 | 39.146 | ppbv | | 100 |
| 21) Trichlorotrifluoroethane | 2.670 | 101 | 1929790 | 37.243 | ppbv | | 100 |
| 22) Trans-1,2-Dichloroethene | 3.368 | 61 | 1543759 | 40.092 | ppbv | | 99 |
| 23) 1,1-Dichloroethane | 4.126 | 63 | 1712768 | 37.539 | ppbv | | 99 |
| 24) Methyl tert-butyl ethe... | 3.545 | 73 | 2085857 | 39.730 | ppbv | | 97 |
| 25) Methyl Ethyl Ketone | 5.913 | 43 | 2993860 | 39.428 | ppbv | | 99 |
| 26) Cis-1,2-Dichloroethene | 4.967 | 61 | 1646277 | 39.892 | ppbv | | 99 |
| 27) Hexane | 3.518 | 57 | 2049498 | 40.083 | ppbv | | 97 |
| 28) Chloroform | 5.474 | 83 | 2049511 | 37.629 | ppbv | | 99 |
| 29) Ethyl acetate | 5.748 | 43 | 3427384 | 37.272 | ppbv | | 100 |
| 30) Tetrahydrofuran | 5.668 | 41 | 943525 | 37.577 | ppbv | | 98 |
| 31) 1,2-Dichloroethane | 6.567 | 62 | 1643008 | 38.169 | ppbv | | 99 |
| 32) 1,1,1-Trichloroethane | 5.733 | 97 | 2268453 | 38.011 | ppbv | | 100 |
| 33) Benzene | 6.293 | 78 | 2293200 | 38.561 | ppbv | | 99 |
| 34) Carbon Tetrachloride | 5.647 | 117 | 2587339 | 37.825 | ppbv | | 100 |
| 35) Cyclohexane | 5.315 | 56 | 1581993 | 39.416 | ppbv | | 98 |
| 37) 1,2-dichloropropane | 7.793 | 63 | 1099752 | 40.816 | ppbv | | 97 |
| 38) Bromodichloromethane | 7.944 | 83 | 2359143 | 41.416 | ppbv | | 100 |
| 39) Trichloroethene | 7.163 | 130 | 1432187 | 41.760 | ppbv | | 100 |
| 41) 1,4-Dioxane | 8.194 | 88 | 497101 | 43.134 | ppbv | | 98 |
| 43) Heptane | 6.430 | 43 | 2566900 | 42.134 | ppbv | | 99 |
| 44) cis-1,3-Dichloropropene | 8.743 | 75 | 1559980 | 43.904 | ppbv | | 100 |
| 45) 4-Methyl-2-pentanone(M... | 9.523 | 43 | 3661850 | 44.041 | ppbv | | 98 |
| 46) trans-1,3-Dichloropropene | 9.559 | 75 | 1608395 | 45.215 | ppbv | | 100 |
| 47) 1,1,2-Trichloroethane | 9.739 | 97 | 1252813 | 41.102 | ppbv | | 100 |
| 48) Toluene | 9.039 | 91 | 2963961 | 42.628 | ppbv | | 100 |
| 49) Dibromochloromethane | 9.941 | 129 | 3018383 | 42.353 | ppbv | | 99 |
| 50) 2-Hexanone(MBK) | 10.541 | 43 | 3675558 | 48.030 | ppbv | | 98 |
| 51) 1,2-Dibromoethane(EDB) | 10.165 | 107 | 2302378 | 43.221 | ppbv | | 100 |

Data Path : H:\AIR2021\CHEM24\03MAR\10\
Data File : 0310_12.D
Acq On : 10 Mar 2021 3:59 pm
Operator : Keith
Client ID : ICAL 40
Lab ID : 40
ALS Vial : 56 Sample Multiplier: 1

Quant Time: Mar 12 11:26:41 2021
Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 12 10:26:28 2021
Response via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 52) | Tetrachloroethene | 9.508 | 166 | 1705090 | 40.970 | ppbv | 100 |
| 54) | 1,1,1,2-Tetrachloroethane | 10.946 | 131 | 1838827 | 40.507 | ppbv | 100 |
| 55) | Chlorobenzene | 10.843 | 112 | 2754948 | 39.781 | ppbv | 100 |
| 56) | Ethylbenzene | 10.925 | 91 | 4191490 | 41.424 | ppbv | 99 |
| 57) | m,p-Xylene | 11.117 | 91 | 6459741 | 84.878 | ppbv | 99 |
| 58) | Bromoform | 11.652 | 173 | 2690413 | 43.570 | ppbv | 99 |
| 59) | Styrene | 11.673 | 104 | 2605922 | 47.744 | ppbv | 99 |
| 60) | 1,1,2,2-Tetrachloroethane | 12.588 | 83 | 2704907 | 40.799 | ppbv | 100 |
| 61) | o-Xylene | 11.611 | 91 | 3391200 | 44.591 | ppbv | 99 |
| 64) | Isopropylbenzene | 12.011 | 105 | 4659311 | 43.748 | ppbv | 99 |
| 66) | 4-Ethyltoluene | 12.653 | 105 | 5006844 | 44.449 | ppbv | 99 |
| 67) | 1,3,5-Trimethylbenzene | 12.770 | 105 | 4111856 | 44.705 | ppbv | 99 |
| 68) | 1,2,4-Trimethylbenzene | 13.224 | 105 | 4029121 | 45.876 | ppbv | 100 |
| 70) | Benzyl chloride | 13.886 | 91 | 3012907 | 48.385 | ppbv | 100 |
| 71) | 1,3-Dichlorobenzene | 13.542 | 146 | 2740626 | 42.837 | ppbv | 100 |
| 72) | 1,4-Dichlorobenzene | 13.639 | 146 | 2637540 | 44.067 | ppbv | 100 |
| 73) | sec-Butylbenzene | 13.354 | 105 | 5474722 | 42.899 | ppbv | 99 |
| 74) | 4-Isopropyltoluene | 13.535 | 119 | 4610895 | 45.183 | ppbv | 99 |
| 75) | 1,2-Dichlorobenzene | 14.029 | 146 | 2191064 | 42.922 | ppbv | 99 |
| 76) | n-Butylbenzene | 13.951 | 91 | 3623403 | 46.361 | ppbv | 99 |
| 77) | 1,2,4-Trichlorobenzene | 15.202 | 180 | 1116996 | 37.696 | ppbv | 99 |
| 79) | Hexachlorobutadiene | 15.217 | 225 | 1076928 | 46.444 | ppbv | 100 |
| 81] | 1,2-Dichlorotetrafluor... | 1.601 | 135 | 1470686 | 29.209 | ppbv | 99 |
| 82] | Vinyl Chloride(sim) | 1.707 | 62 | 1005236 | 37.382 | ppbv | 100 |
| 83] | Bromomethane(sim) | 1.944 | 94 | 889494 | 33.275 | ppbv | 100 |
| 84] | Trichlorofluoromethane... | 2.180 | 101 | 2784544 | 33.313 | ppbv | 100 |
| 85] | 1,1,1-Trichloroethane(... | 5.733 | 97 | 2268453 | 36.607 | ppbv# | 100 |
| 86] | Benzene(sim) | 6.289 | 78 | 2504623 | 36.613 | ppbv | 99 |
| 87] | Carbon Tetrachloride(sim) | 5.647 | 117 | 2587339 | 36.186 | ppbv | 100 |
| 88] | 1,1-Dichloroethene(sim) | 2.611 | 61 | 1772572 | 34.935 | ppbv | 99 |
| 89] | Trichlorotrifluoroetha... | 2.670 | 101 | 1929790 | 34.802 | ppbv | 100 |
| 90] | Trans-1,2-Dichloroethe... | 3.370 | 61 | 1657321 | 37.873 | ppbv | 100 |
| 91] | 1,1-Dichloroethane(sim) | 4.126 | 63 | 1712768 | 34.013 | ppbv | 99 |
| 92] | Cis-1,2-Dichloroethene... | 4.965 | 61 | 1748533 | 39.368 | ppbv | 99 |
| 93] | Chloroform(sim) | 5.474 | 83 | 2049511 | 35.274 | ppbv | 99 |
| 94] | 1,2-Dichloroethane(sim) | 6.563 | 62 | 1778473 | 36.046 | ppbv | 100 |
| 96] | 1,2-dichloropropane(sim) | 7.796 | 63 | 1193818 | 38.372 | ppbv | 97 |
| 97] | Bromodichloromethane(sim) | 7.944 | 83 | 2359702 | 39.599 | ppbv | 100 |
| 98] | Trichloroethene(sim) | 7.159 | 130 | 1513434 | 39.494 | ppbv | 100 |
| 99] | 1,4-Dioxane(sim) | 8.194 | 88 | 497101 | 43.199 | ppbv | 98 |
| 100] | cis-1,3-Dichloropropen... | 8.739 | 75 | 1716175 | 45.638 | ppbv | 100 |
| 101] | 1,1,2-Trichloroethane(... | 9.739 | 97 | 1252813 | 39.384 | ppbv | 100 |
| 102] | Dibromochloromethane(sim) | 9.944 | 129 | 3055124 | 40.696 | ppbv | 100 |
| 103] | 1,2-Dibromoethane(EDB)... | 10.165 | 107 | 2302378 | 42.503 | ppbv | 100 |
| 104] | Tetrachloroethene(sim) | 9.511 | 166 | 1772573 | 39.722 | ppbv | 100 |
| 106] | Bromoform(sim) | 11.655 | 173 | 2656509 | 18.891 | ppbv | 100 |
| 107] | 1,1,1,2-Tetrachloroeth... | 10.946 | 131 | 1838597 | 38.970 | ppbv | 100 |
| 108] | Ethylbenzene(sim) | 10.928 | 91 | 4437489 | 40.235 | ppb | 99 |
| 109] | m,p-Xylene(sim) | 11.117 | 91 | 6461481 | 86.031 | ppbv | 99 |
| 110] | o-Xylene(sim) | 11.607 | 91 | 3645373 | 46.402 | ppb | 100 |
| 111] | 1,1,2,2-Tetrachloroeth... | 12.588 | 83 | 2705059 | 38.769 | ppbv | 100 |
| 114] | Benzyl chloride(sim) | 13.889 | 91 | 3242044 | 57.340 | ppbv | 100 |
| 115] | 1,3-Dichlorobenzene(sim) | 13.542 | 146 | 2740626 | 41.967 | ppbv | 100 |
| 116] | 1,4-Dichlorobenzene(sim) | 13.642 | 146 | 2910840 | 44.563 | ppbv | 100 |
| 117] | sec-Butylbenzene(sim) | 13.354 | 105 | 5471974 | 45.972 | ppbv | 99 |
| 118] | 4-Isopropyltoluene(sim) | 13.538 | 119 | 4970587 | 49.686 | ppbv | 99 |
| 119] | 1,2-Dichlorobenzene(sim) | 14.029 | 146 | 2191373 | 43.391 | ppbv | 99 |

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM24\03MAR\10\
Data File : 0310_12.D
Acq On : 10 Mar 2021 3:59 pm
Operator : Keith
Client ID : ICAL 40
Lab ID : 40
ALS Vial : 56 Sample Multiplier: 1

Quant Time: Mar 12 11:26:41 2021
Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 12 10:26:28 2021
Response via : Initial Calibration

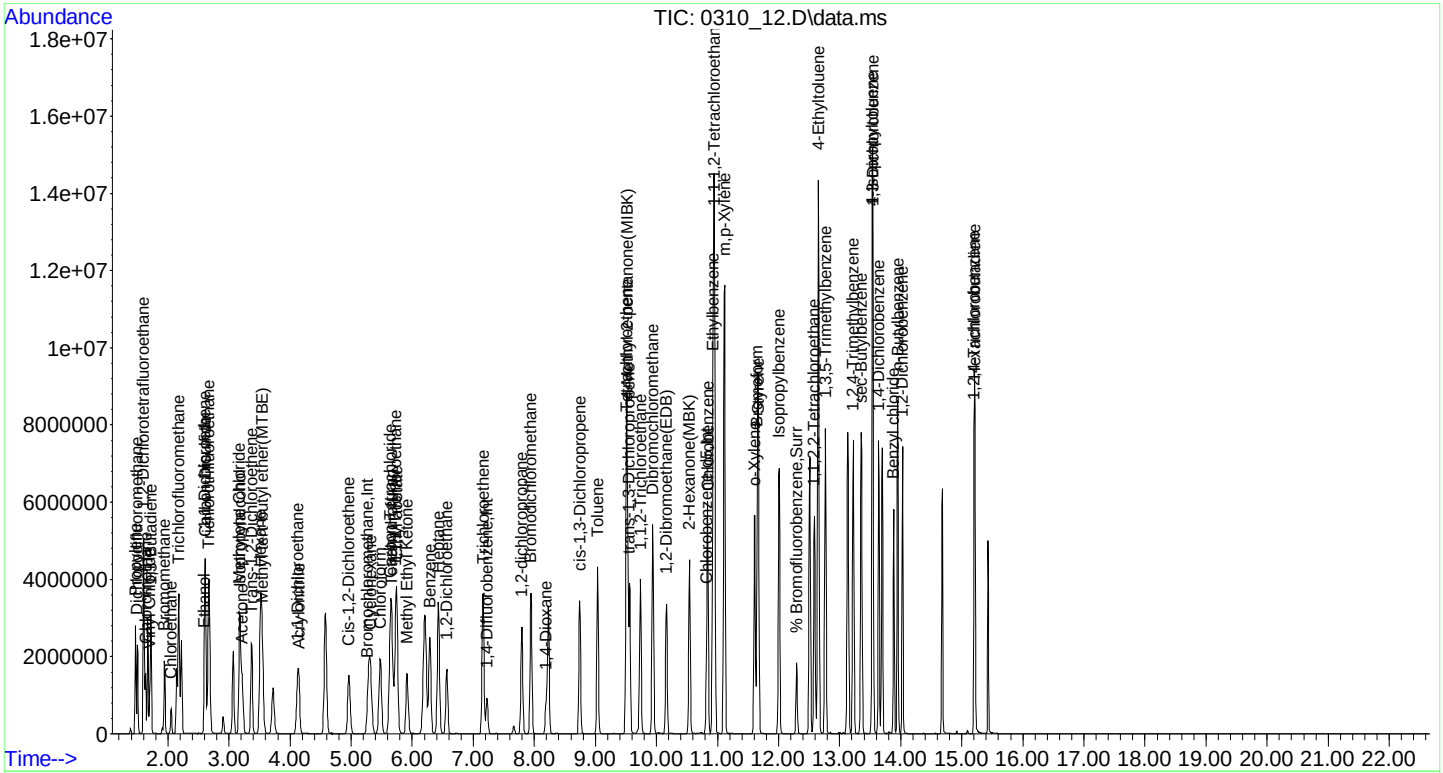
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 120] n-Butylbenzene(sim) | 13.947 | 91 | 3789930 | 52.963 | ppbv | 99 |
| 122] Hexachlorobutadiene(sim) | 15.215 | 225 | 1135195 | 41.239 | ppbv | 100 |

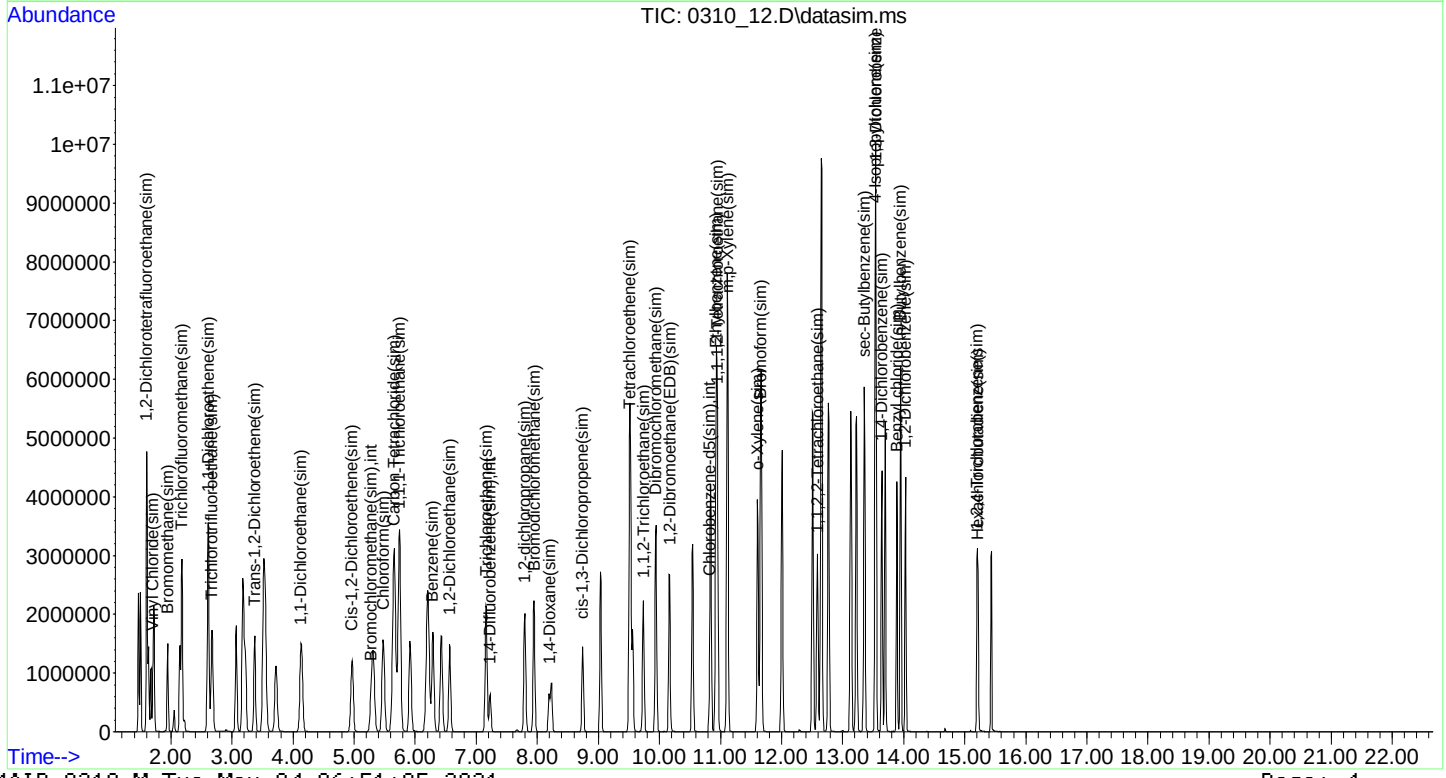
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM24\03MAR\10\
Data File : 0310_12.D
Acq On : 10 Mar 2021 3:59 pm
Operator : Keith
Client ID : ICAL 40
Lab ID : 40
ALS Vial : 56 Sample Multiplier: 1

Quant Time: Mar 12 11:26:41 2021
Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 12 10:26:28 2021
Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM24\03MAR\10\
Data File : 0310_14.D
Acq On : 10 Mar 2021 4:57 pm
Operator : Keith
Client ID : ICAL 1
Lab ID : 1ppb
ALS Vial : 58 Sample Multiplier: 1

Quant Time: Mar 12 11:27:21 2021
Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 12 10:26:56 2021
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Bromochloromethane | 5.265 | 130 | 267959 | 10.000 | ng | | 0.00 |
| 36) 1,4-Difluorobenzene | 7.218 | 114 | 846753 | 10.000 | ng | | 0.00 |
| 53) Chlorobenzene-d5 | 10.816 | 82 | 386928 | 10.000 | ng | | 0.00 |
| 80) Bromochloromethane(sim) | 5.268 | 130 | 276144 | 10.000 | ng | # | 0.00 |
| 95) 1,4-Difluorobenzene(sim) | 7.218 | 114 | 846753 | 10.000 | ng | | 0.00 |
| 105) Chlorobenzene-d5(sim) | 10.816 | 82 | 386928 | 10.000 | ng | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 62) % Bromofluorobenzene | 12.290 | 95 | 530216 | 9.786 | ppbv | | 0.00 |
| Spiked Amount 10.000 | Range 70 - 130 | | Recovery = | 97.90% | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) Propylene | 1.471 | 41 | 25672 | 0.963 | ppbv | | 98 |
| 3) Dichlorodifluoromethane | 1.499 | 85 | 52548 | 1.074 | ppbv | | 98 |
| 4) Chloromethane | 1.636 | 50 | 30640 | 0.828 | ppbv | | 87 |
| 5) 1,2-Dichlorotetrafluor... | 1.602 | 135 | 43978 | 1.019 | ppbv | | 99 |
| 6) Vinyl Chloride | 1.704 | 62 | 23457 | 1.042 | ppbv | | 98 |
| 7) 1,3-Butadiene | 1.725 | 54 | 18979 | 0.978 | ppbv | | 97 |
| 8) Bromomethane | 1.944 | 94 | 21901 | 1.001 | ppbv | | 98 |
| 9) Chloroethane | 2.047 | 64 | 8781 | 0.989 | ppbv | | 98 |
| 10) Ethanol | 2.602 | 45 | 12048 | 1.012 | ppbv | | 96 |
| 12) Acetone | 3.224 | 43 | 65992 | 0.958 | ppbv | | 99 |
| 13) Trichlorofluoromethane | 2.177 | 101 | 65343 | 0.951 | ppbv | | 99 |
| 14) Isopropylalcohol | 3.190 | 45 | 58720 | 0.961 | ppbv | | 99 |
| 15) Acrylonitrile | 4.141 | 53 | 18334 | 1.005 | ppbv | | 97 |
| 16) 1,1-Dichloroethene | 2.602 | 61 | 39636 | 0.960 | ppbv | | 99 |
| 17) Methylene Chloride | 3.169 | 49 | 43219 | 1.014 | ppbv | | 97 |
| 20) Carbon Disulfide | 2.608 | 76 | 51668 | 0.977 | ppbv | | 97 |
| 21) Trichlorotrifluoroethane | 2.670 | 101 | 47970 | 0.990 | ppbv | | 98 |
| 22) Trans-1,2-Dichloroethene | 3.361 | 61 | 35461 | 0.985 | ppbv | | 99 |
| 23) 1,1-Dichloroethane | 4.116 | 63 | 42004 | 0.984 | ppbv | | 100 |
| 24) Methyl tert-butyl ethe... | 3.545 | 73 | 49084 | 1.000 | ppbv | | 96 |
| 25) Methyl Ethyl Ketone | 5.921 | 43 | 67101 | 0.945 | ppbv | | 100 |
| 26) Cis-1,2-Dichloroethene | 4.957 | 61 | 37823 | 0.980 | ppbv | | 100 |
| 27) Hexane | 3.511 | 57 | 49409 | 1.033 | ppbv | | 97 |
| 28) Chloroform | 5.467 | 83 | 51239 | 1.006 | ppbv | | 99 |
| 29) Ethyl acetate | 5.748 | 43 | 79862 | 0.929 | ppbv | | 98 |
| 30) Tetrahydrofuran | 5.683 | 41 | 23042 | 0.981 | ppbv | | 97 |
| 31) 1,2-Dichloroethane | 6.560 | 62 | 38773 | 0.963 | ppbv | | 99 |
| 32) 1,1,1-Trichloroethane | 5.726 | 97 | 55051 | 0.986 | ppbv | | 98 |
| 33) Benzene | 6.287 | 78 | 56549 | 1.017 | ppbv | | 99 |
| 34) Carbon Tetrachloride | 5.640 | 117 | 60875 | 0.951 | ppbv | | 99 |
| 35) Cyclohexane | 5.301 | 56 | 39064 | 1.041 | ppbv | | 98 |
| 37) 1,2-dichloropropane | 7.793 | 63 | 26327 | 0.985 | ppbv | | 97 |
| 38) Bromodichloromethane | 7.937 | 83 | 53625 | 0.949 | ppbv | | 97 |
| 39) Trichloroethene | 7.156 | 130 | 33019 | 0.970 | ppbv | | 99 |
| 41) 1,4-Dioxane | 8.202 | 88 | 9983 | 0.873 | ppbv | | 98 |
| 43) Heptane | 6.423 | 43 | 59345 | 0.982 | ppbv | | 99 |
| 44) cis-1,3-Dichloropropene | 8.736 | 75 | 32993 | 0.936 | ppbv | | 98 |
| 45) 4-Methyl-2-pentanone(M... | 9.523 | 43 | 72686 | 0.881 | ppbv | | 98 |
| 46) trans-1,3-Dichloropropene | 9.559 | 75 | 33299 | 0.943 | ppbv | | 99 |
| 47) 1,1,2-Trichloroethane | 9.732 | 97 | 29076 | 0.961 | ppbv | | 97 |
| 48) Toluene | 9.032 | 91 | 68552 | 0.994 | ppbv | | 98 |
| 49) Dibromochloromethane | 9.934 | 129 | 65985 | 0.933 | ppbv | | 99 |
| 50) 2-Hexanone(MBK) | 10.541 | 43 | 59503 | 0.784 | ppbv | | 99 |
| 51) 1,2-Dibromoethane(EDB) | 10.158 | 107 | 49941 | 0.945 | ppbv | | 99 |

Data Path : H:\AIR2021\CHEM24\03MAR\10\
Data File : 0310_14.D
Acq On : 10 Mar 2021 4:57 pm
Operator : Keith
Client ID : ICAL 1
Lab ID : 1ppb
ALS Vial : 58 Sample Multiplier: 1

Quant Time: Mar 12 11:27:21 2021
Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 12 10:26:56 2021
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 52) Tetrachloroethene | 9.509 | 166 | 38918 | 0.942 | ppbv | 98 |
| 54) 1,1,1,2-Tetrachloroethane | 10.939 | 131 | 41154 | 0.945 | ppbv | 98 |
| 55) Chlorobenzene | 10.836 | 112 | 64222 | 0.967 | ppbv | 91 |
| 56) Ethylbenzene | 10.919 | 91 | 95024 | 0.979 | ppbv | 98 |
| 57) m,p-Xylene | 11.104 | 91 | 144526 | 1.979 | ppbv | 98 |
| 58) Bromoform | 11.646 | 173 | 48961 | 0.826 | ppbv | 98 |
| 59) Styrene | 11.667 | 104 | 49274 | 0.941 | ppbv | 99 |
| 60) 1,1,2,2-Tetrachloroethane | 12.582 | 83 | 60716 | 0.955 | ppbv | 100 |
| 61) o-Xylene | 11.605 | 91 | 70930 | 0.972 | ppbv | 98 |
| 64) Isopropylbenzene | 12.005 | 105 | 99607 | 0.975 | ppbv | 98 |
| 66) 4-Ethyltoluene | 12.647 | 105 | 103180 | 0.955 | ppbv | 99 |
| 67) 1,3,5-Trimethylbenzene | 12.764 | 105 | 81129 | 0.919 | ppbv | 98 |
| 68) 1,2,4-Trimethylbenzene | 13.218 | 105 | 71712 | 0.851 | ppbv | 98 |
| 70) Benzyl chloride | 13.880 | 91 | 47674 | 0.798 | ppbv | 99 |
| 71) 1,3-Dichlorobenzene | 13.536 | 146 | 55569 | 0.905 | ppbv | 100 |
| 72) 1,4-Dichlorobenzene | 13.633 | 146 | 52061 | 0.907 | ppbv | 99 |
| 73) sec-Butylbenzene | 13.348 | 105 | 117056 | 0.956 | ppbv | 99 |
| 74) 4-Isopropyltoluene | 13.529 | 119 | 85408 | 0.872 | ppbv | 99 |
| 75) 1,2-Dichlorobenzene | 14.023 | 146 | 42626 | 0.870 | ppbv | 98 |
| 76) n-Butylbenzene | 13.945 | 91 | 61464 | 0.820 | ppbv | 97 |
| 77) 1,2,4-Trichlorobenzene | 15.198 | 180 | 8003 | 0.520 | ppbv# | 88 |
| 79) Hexachlorobutadiene | 15.213 | 225 | 20069 | 0.902 | ppbv | 99 |
| 81] 1,2-Dichlorotetrafluor... | 1.602 | 135 | 43978 | 0.930 | ppbv | 99 |
| 82] Vinyl Chloride(sim) | 1.700 | 62 | 24604 | 0.974 | ppbv | 100 |
| 83] Bromomethane(sim) | 1.944 | 94 | 21901 | 0.872 | ppbv | 98 |
| 84] Trichlorofluoromethane... | 2.173 | 101 | 69035 | 0.879 | ppbv | 99 |
| 85] 1,1,1-Trichloroethane(... | 5.726 | 97 | 55051 | 0.946 | ppbv# | 98 |
| 86] Benzene(sim) | 6.283 | 78 | 60468 | 0.941 | ppbv | 100 |
| 87] Carbon Tetrachloride(sim) | 5.640 | 117 | 60875 | 0.906 | ppbv | 99 |
| 88] 1,1-Dichloroethene(sim) | 2.604 | 61 | 42959 | 0.901 | ppbv | 100 |
| 89] Trichlorotrifluoroetha... | 2.670 | 101 | 47891 | 0.919 | ppbv | 98 |
| 90] Trans-1,2-Dichloroethe... | 3.364 | 61 | 38866 | 0.945 | ppbv | 99 |
| 91] 1,1-Dichloroethane(sim) | 4.116 | 63 | 42004 | 0.888 | ppbv | 100 |
| 92] Cis-1,2-Dichloroethene... | 4.955 | 61 | 40396 | 0.968 | ppbv | 98 |
| 93] Chloroform(sim) | 5.467 | 83 | 51239 | 0.939 | ppbv | 99 |
| 94] 1,2-Dichloroethane(sim) | 6.556 | 62 | 41918 | 0.904 | ppbv | 100 |
| 96] 1,2-dichloropropane(sim) | 7.789 | 63 | 28711 | 0.930 | ppbv | 98 |
| 97] Bromodichloromethane(sim) | 7.937 | 83 | 53625 | 0.907 | ppbv | 97 |
| 98] Trichloroethene(sim) | 7.159 | 130 | 34744 | 0.914 | ppbv | 100 |
| 99] 1,4-Dioxane(sim) | 8.202 | 88 | 9983 | 0.874 | ppbv | 98 |
| 100] cis-1,3-Dichloropropen... | 8.739 | 75 | 37202 | 0.997 | ppbv | 100 |
| 101] 1,1,2-Trichloroethane(... | 9.732 | 97 | 29076 | 0.921 | ppbv | 97 |
| 102] Dibromochloromethane(sim) | 9.937 | 129 | 65572 | 0.880 | ppbv | 100 |
| 103] 1,2-Dibromoethane(EDB)... | 10.158 | 107 | 49941 | 0.929 | ppbv | 99 |
| 104] Tetrachloroethene(sim) | 9.511 | 166 | 41145 | 0.929 | ppbv | 100 |
| 106] Bromoform(sim) | 11.649 | 173 | 49363 | 1.105 | ppbv | 100 |
| 107] 1,1,1,2-Tetrachloroeth... | 10.939 | 131 | 41066 | 0.907 | ppbv | 97 |
| 108] Ethylbenzene(sim) | 10.922 | 91 | 101094 | 0.955 | ppb | 99 |
| 109] m,p-Xylene(sim) | 11.104 | 91 | 144526 | 2.006 | ppbv | 98 |
| 110] o-Xylene(sim) | 11.601 | 91 | 76160 | 1.010 | ppb | 99 |
| 111] 1,1,2,2-Tetrachloroeth... | 12.582 | 83 | 60596 | 0.905 | ppbv | 100 |
| 114] Benzyl chloride(sim) | 13.883 | 91 | 50609 | 0.933 | ppbv | 99 |
| 115] 1,3-Dichlorobenzene(sim) | 13.536 | 146 | 55569 | 0.887 | ppbv | 100 |
| 116] 1,4-Dichlorobenzene(sim) | 13.636 | 146 | 57870 | 0.923 | ppbv | 99 |
| 117] sec-Butylbenzene(sim) | 13.348 | 105 | 116956 | 1.024 | ppbv | 99 |
| 118] 4-Isopropyltoluene(sim) | 13.532 | 119 | 94104 | 0.980 | ppbv | 98 |
| 119] 1,2-Dichlorobenzene(sim) | 14.023 | 146 | 42626 | 0.880 | ppbv | 98 |

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM24\03MAR\10\
Data File : 0310_14.D
Acq On : 10 Mar 2021 4:57 pm
Operator : Keith
Client ID : ICAL 1
Lab ID : 1ppb
ALS Vial : 58 Sample Multiplier: 1

Quant Time: Mar 12 11:27:21 2021
Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 12 10:26:56 2021
Response via : Initial Calibration

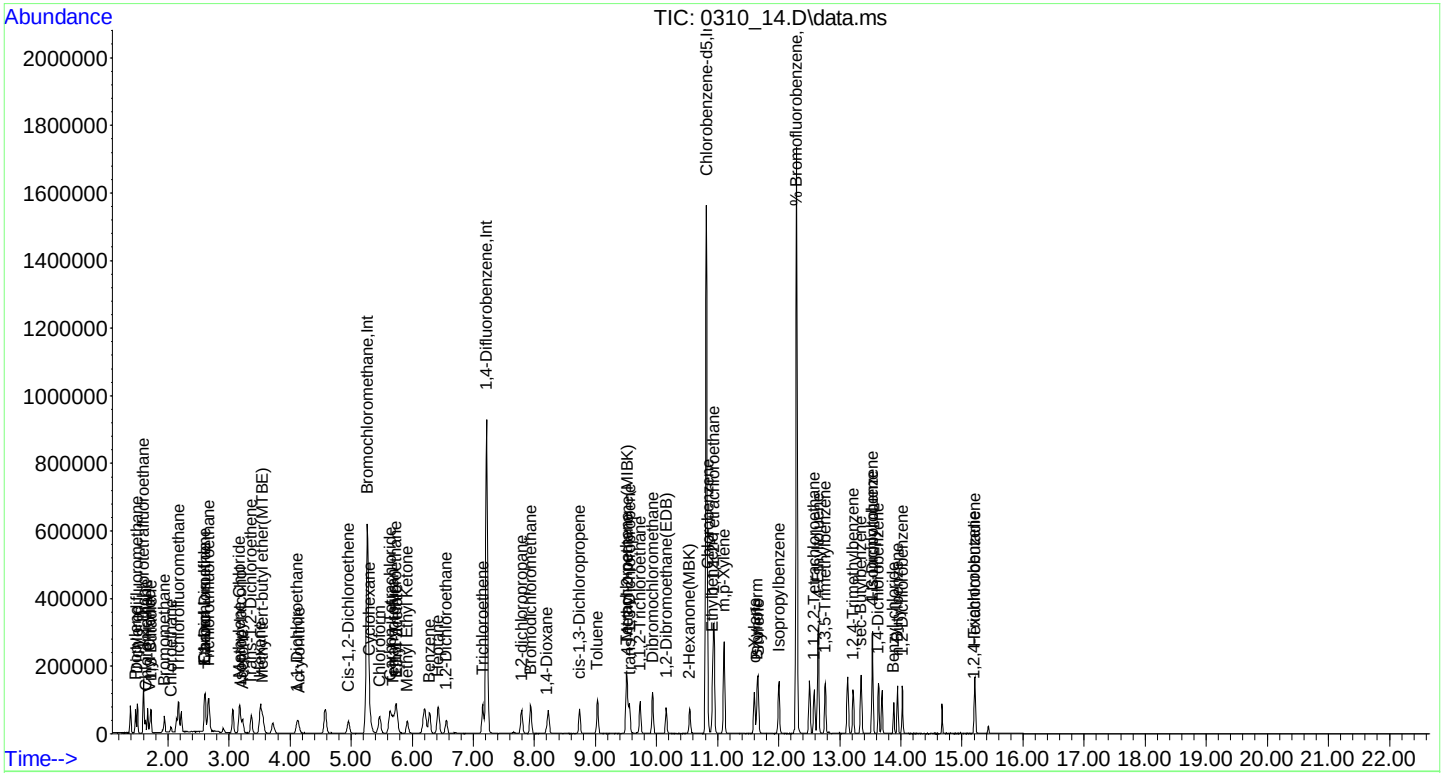
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 120] n-Butylbenzene(sim) | 13.948 | 91 | 65812 | 0.959 | ppbv | 96 |
| 122] Hexachlorobutadiene(sim) | 15.215 | 225 | 20812 | 0.788 | ppbv | 100 |

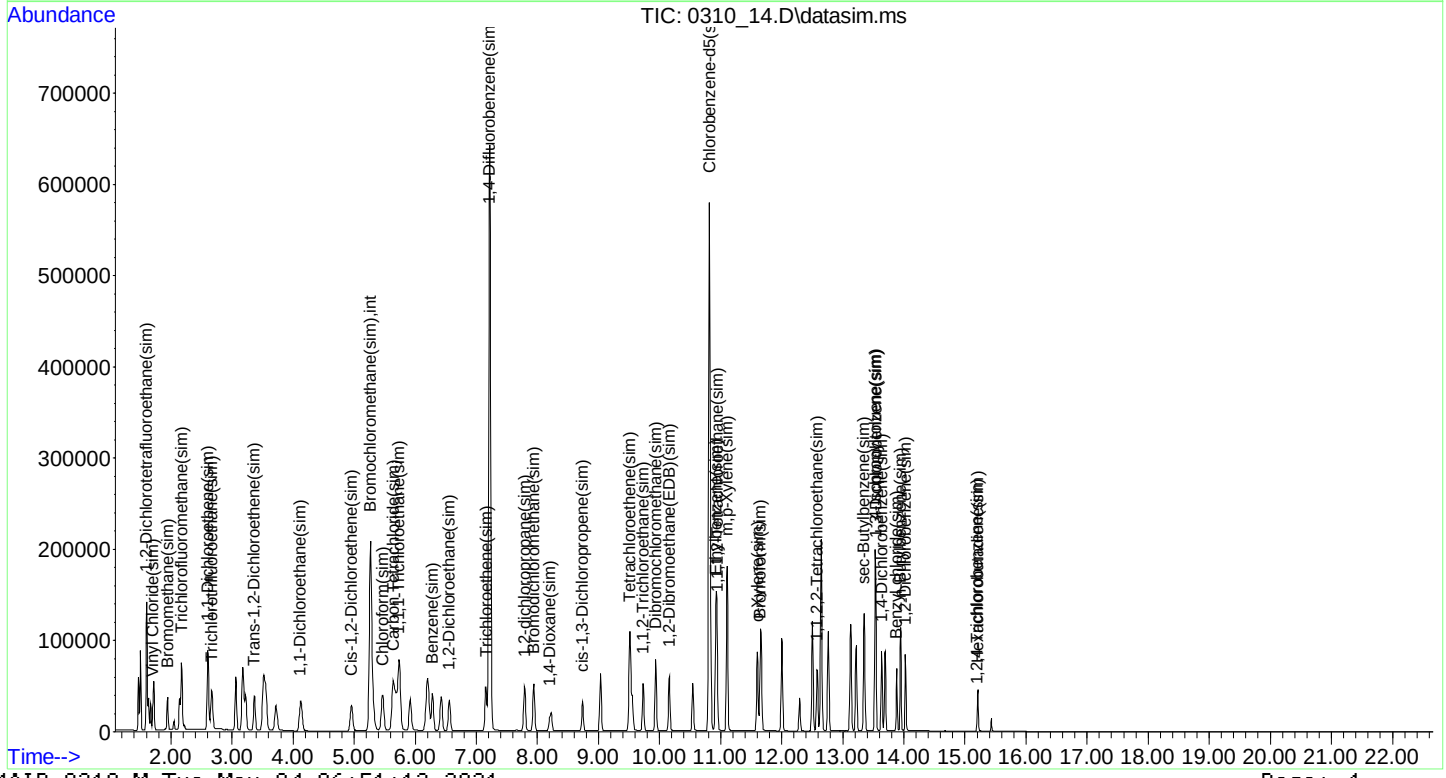
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM24\03MAR\10\
Data File : 0310_14.D
Acq On : 10 Mar 2021 4:57 pm
Operator : Keith
Client ID : ICAL 1
Lab ID : 1ppb
ALS Vial : 58 Sample Multiplier: 1

Quant Time: Mar 12 11:27:21 2021
Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 12 10:26:56 2021
Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM24\03MAR\10\
Data File : 0310_15.D
Acq On : 10 Mar 2021 5:26 pm
Operator : Keith
Client ID : ICAL 10
Lab ID : 10ppb
ALS Vial : 59 Sample Multiplier: 1

Quant Time: Mar 12 11:27:49 2021
Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 12 10:27:36 2021
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Bromochloromethane | 5.265 | 130 | 269022 | 10.000 | ng | | 0.00 |
| 36) 1,4-Difluorobenzene | 7.225 | 114 | 840816 | 10.000 | ng | | 0.00 |
| 53) Chlorobenzene-d5 | 10.815 | 82 | 382200 | 10.000 | ng | | 0.00 |
| 80) Bromochloromethane(sim) | 5.268 | 130 | 278251 | 10.000 | ng | # | 0.00 |
| 95) 1,4-Difluorobenzene(sim) | 7.225 | 114 | 840816 | 10.000 | ng | | 0.00 |
| 105) Chlorobenzene-d5(sim) | 10.815 | 82 | 382200 | 10.000 | ng | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 62) % Bromofluorobenzene | 12.296 | 95 | 528122 | 9.910 | ppbv | | 0.00 |
| Spiked Amount 10.000 | Range 70 - 130 | | Recovery = | 99.10% | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) Propylene | 1.464 | 41 | 267904 | 10.005 | ppbv | | 99 |
| 3) Dichlorodifluoromethane | 1.499 | 85 | 479496 | 9.760 | ppbv | | 99 |
| 4) Chloromethane | 1.629 | 50 | 402804 | 10.842 | ppbv | | 86 |
| 5) 1,2-Dichlorotetrafluor... | 1.601 | 135 | 450836 | 10.402 | ppbv | | 99 |
| 6) Vinyl Chloride | 1.704 | 62 | 234577 | 10.376 | ppbv | | 99 |
| 7) 1,3-Butadiene | 1.718 | 54 | 201627 | 10.353 | ppbv | | 98 |
| 8) Bromomethane | 1.944 | 94 | 218182 | 9.933 | ppbv | | 98 |
| 9) Chloroethane | 2.047 | 64 | 88346 | 9.913 | ppbv | | 96 |
| 10) Ethanol | 2.595 | 45 | 116025 | 9.707 | ppbv | | 98 |
| 12) Acetone | 3.217 | 43 | 667670 | 9.654 | ppbv | | 99 |
| 13) Trichlorofluoromethane | 2.170 | 101 | 674979 | 9.786 | ppbv | | 98 |
| 14) Isopropylalcohol | 3.176 | 45 | 635277 | 10.359 | ppbv | | 93 |
| 15) Acrylonitrile | 4.141 | 53 | 192194 | 10.490 | ppbv | | 96 |
| 16) 1,1-Dichloroethene | 2.601 | 61 | 407565 | 9.836 | ppbv | | 99 |
| 17) Methylene Chloride | 3.169 | 49 | 436355 | 10.201 | ppbv | | 99 |
| 20) Carbon Disulfide | 2.608 | 76 | 536242 | 10.101 | ppbv | | 97 |
| 21) Trichlorotrifluoroethane | 2.670 | 101 | 471941 | 9.699 | ppbv | | 98 |
| 22) Trans-1,2-Dichloroethene | 3.368 | 61 | 375716 | 10.391 | ppbv | | 99 |
| 23) 1,1-Dichloroethane | 4.116 | 63 | 431141 | 10.063 | ppbv | | 100 |
| 24) Methyl tert-butyl ethe... | 3.539 | 73 | 515298 | 10.452 | ppbv | | 98 |
| 25) Methyl Ethyl Ketone | 5.906 | 43 | 733704 | 10.290 | ppbv | | 100 |
| 26) Cis-1,2-Dichloroethene | 4.957 | 61 | 412840 | 10.653 | ppbv | | 99 |
| 27) Hexane | 3.518 | 57 | 514001 | 10.705 | ppbv | | 98 |
| 28) Chloroform | 5.466 | 83 | 515420 | 10.077 | ppbv | | 99 |
| 29) Ethyl acetate | 5.740 | 43 | 847263 | 9.812 | ppbv | | 98 |
| 30) Tetrahydrofuran | 5.661 | 41 | 232554 | 9.863 | ppbv | | 97 |
| 31) 1,2-Dichloroethane | 6.560 | 62 | 401628 | 9.936 | ppbv | | 99 |
| 32) 1,1,1-Trichloroethane | 5.726 | 97 | 564716 | 10.077 | ppbv | | 98 |
| 33) Benzene | 6.286 | 78 | 566767 | 10.149 | ppbv | | 99 |
| 34) Carbon Tetrachloride | 5.639 | 117 | 641185 | 9.982 | ppbv | | 99 |
| 35) Cyclohexane | 5.301 | 56 | 395261 | 10.487 | ppbv | | 98 |
| 37) 1,2-dichloropropane | 7.793 | 63 | 269548 | 10.153 | ppbv | | 99 |
| 38) Bromodichloromethane | 7.944 | 83 | 579874 | 10.332 | ppbv | | 97 |
| 39) Trichloroethene | 7.156 | 130 | 350569 | 10.374 | ppbv | | 98 |
| 41) 1,4-Dioxane | 8.187 | 88 | 126971 | 11.182 | ppbv | | 98 |
| 43) Heptane | 6.423 | 43 | 634655 | 10.572 | ppbv | | 99 |
| 44) cis-1,3-Dichloropropene | 8.743 | 75 | 377636 | 10.786 | ppbv | | 97 |
| 45) 4-Methyl-2-pentanone(M... | 9.523 | 43 | 897014 | 10.949 | ppbv | | 99 |
| 46) trans-1,3-Dichloropropene | 9.559 | 75 | 381562 | 10.886 | ppbv | | 98 |
| 47) 1,1,2-Trichloroethane | 9.732 | 97 | 302478 | 10.071 | ppbv | | 97 |
| 48) Toluene | 9.032 | 91 | 727020 | 10.612 | ppbv | | 99 |
| 49) Dibromochloromethane | 9.934 | 129 | 737923 | 10.509 | ppbv | | 100 |
| 50) 2-Hexanone(MBK) | 10.541 | 43 | 874469 | 11.597 | ppbv | | 100 |
| 51) 1,2-Dibromoethane(EDB) | 10.158 | 107 | 557362 | 10.619 | ppbv | | 99 |

Data Path : H:\AIR2021\CHEM24\03MAR\10\
Data File : 0310_15.D
Acq On : 10 Mar 2021 5:26 pm
Operator : Keith
Client ID : ICAL 10
Lab ID : 10ppb
ALS Vial : 59 Sample Multiplier: 1

Quant Time: Mar 12 11:27:49 2021
Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 12 10:27:36 2021
Response via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 52) | Tetrachloroethene | 9.508 | 166 | 416309 | 10.152 | ppbv | 98 |
| 54) | 1,1,1,2-Tetrachloroethane | 10.939 | 131 | 438667 | 10.197 | ppbv | 98 |
| 55) | Chlorobenzene | 10.836 | 112 | 671625 | 10.234 | ppbv | 91 |
| 56) | Ethylbenzene | 10.918 | 91 | 1018384 | 10.620 | ppbv | 100 |
| 57) | m,p-Xylene | 11.104 | 91 | 1603503 | 22.233 | ppbv | 99 |
| 58) | Bromoform | 11.652 | 173 | 622389 | 10.636 | ppbv | 98 |
| 59) | Styrene | 11.666 | 104 | 602991 | 11.658 | ppbv | 98 |
| 60) | 1,1,2,2-Tetrachloroethane | 12.582 | 83 | 650338 | 10.351 | ppbv | 100 |
| 61) | o-Xylene | 11.604 | 91 | 804456 | 11.162 | ppbv | 98 |
| 64) | Isopropylbenzene | 12.004 | 105 | 1132296 | 11.219 | ppbv | 99 |
| 66) | 4-Ethyltoluene | 12.646 | 105 | 1191657 | 11.163 | ppbv | 100 |
| 67) | 1,3,5-Trimethylbenzene | 12.763 | 105 | 998613 | 11.457 | ppbv | 99 |
| 68) | 1,2,4-Trimethylbenzene | 13.217 | 105 | 975145 | 11.716 | ppbv | 99 |
| 70) | Benzyl chloride | 13.886 | 91 | 743201 | 12.594 | ppbv | 99 |
| 71) | 1,3-Dichlorobenzene | 13.535 | 146 | 663462 | 10.943 | ppbv | 100 |
| 72) | 1,4-Dichlorobenzene | 13.639 | 146 | 631585 | 11.135 | ppbv | 99 |
| 73) | sec-Butylbenzene | 13.354 | 105 | 1363807 | 11.277 | ppbv | 100 |
| 74) | 4-Isopropyltoluene | 13.535 | 119 | 1139822 | 11.786 | ppbv | 100 |
| 75) | 1,2-Dichlorobenzene | 14.029 | 146 | 531499 | 10.987 | ppbv | 98 |
| 76) | n-Butylbenzene | 13.944 | 91 | 887793 | 11.987 | ppbv | 98 |
| 77) | 1,2,4-Trichlorobenzene | 15.199 | 180 | 192799 | 10.880 | ppbv# | 88 |
| 79) | Hexachlorobutadiene | 15.214 | 225 | 227027 | 10.332 | ppbv | 99 |
| 81] | 1,2-Dichlorotetrafluor... | 1.601 | 135 | 450836 | 9.459 | ppbv | 99 |
| 82] | Vinyl Chloride(sim) | 1.700 | 62 | 252952 | 9.937 | ppbv | 99 |
| 83] | Bromomethane(sim) | 1.944 | 94 | 218182 | 8.622 | ppbv | 98 |
| 84] | Trichlorofluoromethane... | 2.173 | 101 | 705260 | 8.913 | ppbv | 100 |
| 85] | 1,1,1-Trichloroethane(... | 5.726 | 97 | 565200 | 9.635 | ppbv# | 98 |
| 86] | Benzene(sim) | 6.282 | 78 | 618074 | 9.545 | ppbv | 100 |
| 87] | Carbon Tetrachloride(sim) | 5.639 | 117 | 641185 | 9.474 | ppbv | 99 |
| 88] | 1,1-Dichloroethene(sim) | 2.604 | 61 | 438044 | 9.120 | ppbv | 99 |
| 89] | Trichlorotrifluoroetha... | 2.670 | 101 | 471941 | 8.991 | ppbv | 98 |
| 90] | Trans-1,2-Dichloroethe... | 3.364 | 61 | 405044 | 9.778 | ppbv | 100 |
| 91] | 1,1-Dichloroethane(sim) | 4.116 | 63 | 431188 | 9.046 | ppbv | 100 |
| 92] | Cis-1,2-Dichloroethene... | 4.960 | 61 | 434764 | 10.341 | ppbv | 97 |
| 93] | Chloroform(sim) | 5.466 | 83 | 514917 | 9.362 | ppbv | 99 |
| 94] | 1,2-Dichloroethane(sim) | 6.563 | 62 | 437707 | 9.372 | ppbv | 100 |
| 96] | 1,2-dichloropropane(sim) | 7.789 | 63 | 293162 | 9.563 | ppbv | 99 |
| 97] | Bromodichloromethane(sim) | 7.944 | 83 | 579654 | 9.872 | ppbv | 97 |
| 98] | Trichloroethene(sim) | 7.159 | 130 | 372206 | 9.858 | ppbv | 100 |
| 99] | 1,4-Dioxane(sim) | 8.187 | 88 | 126971 | 11.198 | ppbv | 98 |
| 100] | cis-1,3-Dichloropropen... | 8.739 | 75 | 416437 | 11.239 | ppbv | 100 |
| 101] | 1,1,2-Trichloroethane(... | 9.732 | 97 | 302478 | 9.650 | ppbv | 97 |
| 102] | Dibromochloromethane(sim) | 9.937 | 129 | 746494 | 10.092 | ppbv | 100 |
| 103] | 1,2-Dibromoethane(EDB)... | 10.158 | 107 | 556720 | 10.430 | ppbv | 99 |
| 104] | Tetrachloroethene(sim) | 9.511 | 166 | 431994 | 9.825 | ppbv | 100 |
| 106] | Bromoform(sim) | 11.655 | 173 | 615099 | 7.966 | ppbv | 100 |
| 107] | 1,1,1,2-Tetrachloroeth... | 10.939 | 131 | 438713 | 9.812 | ppbv | 97 |
| 108] | Ethylbenzene(sim) | 10.921 | 91 | 1084750 | 10.379 | ppb | 100 |
| 109] | m,p-Xylene(sim) | 11.104 | 91 | 1605627 | 22.559 | ppbv | 99 |
| 110] | o-Xylene(sim) | 11.600 | 91 | 869369 | 11.677 | ppb | 99 |
| 111] | 1,1,2,2-Tetrachloroeth... | 12.582 | 83 | 650338 | 9.835 | ppbv | 100 |
| 114] | Benzyl chloride(sim) | 13.882 | 91 | 784022 | 14.632 | ppbv | 100 |
| 115] | 1,3-Dichlorobenzene(sim) | 13.535 | 146 | 663462 | 10.721 | ppbv | 100 |
| 116] | 1,4-Dichlorobenzene(sim) | 13.636 | 146 | 705384 | 11.395 | ppbv | 100 |
| 117] | sec-Butylbenzene(sim) | 13.354 | 105 | 1362087 | 12.075 | ppbv | 100 |
| 118] | 4-Isopropyltoluene(sim) | 13.532 | 119 | 1241552 | 13.096 | ppbv | 100 |
| 119] | 1,2-Dichlorobenzene(sim) | 14.029 | 146 | 531621 | 11.108 | ppbv | 98 |

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM24\03MAR\10\
Data File : 0310_15.D
Acq On : 10 Mar 2021 5:26 pm
Operator : Keith
Client ID : ICAL 10
Lab ID : 10ppb
ALS Vial : 59 Sample Multiplier: 1

Quant Time: Mar 12 11:27:49 2021
Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 12 10:27:36 2021
Response via : Initial Calibration

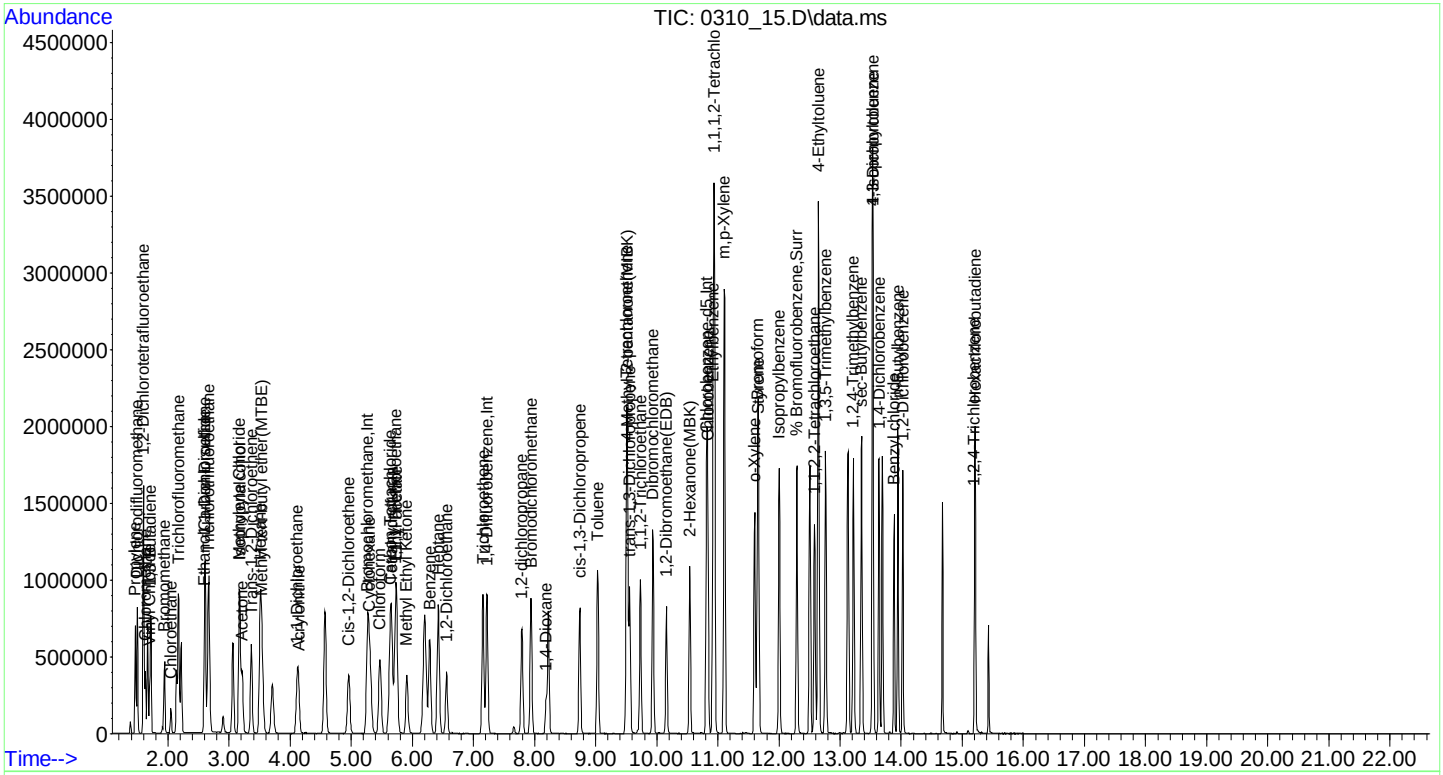
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 120] n-Butylbenzene(sim) | 13.947 | 91 | 950383 | 14.015 | ppbv | 98 |
| 122] Hexachlorobutadiene(sim) | 15.212 | 225 | 238497 | 9.143 | ppbv | 99 |

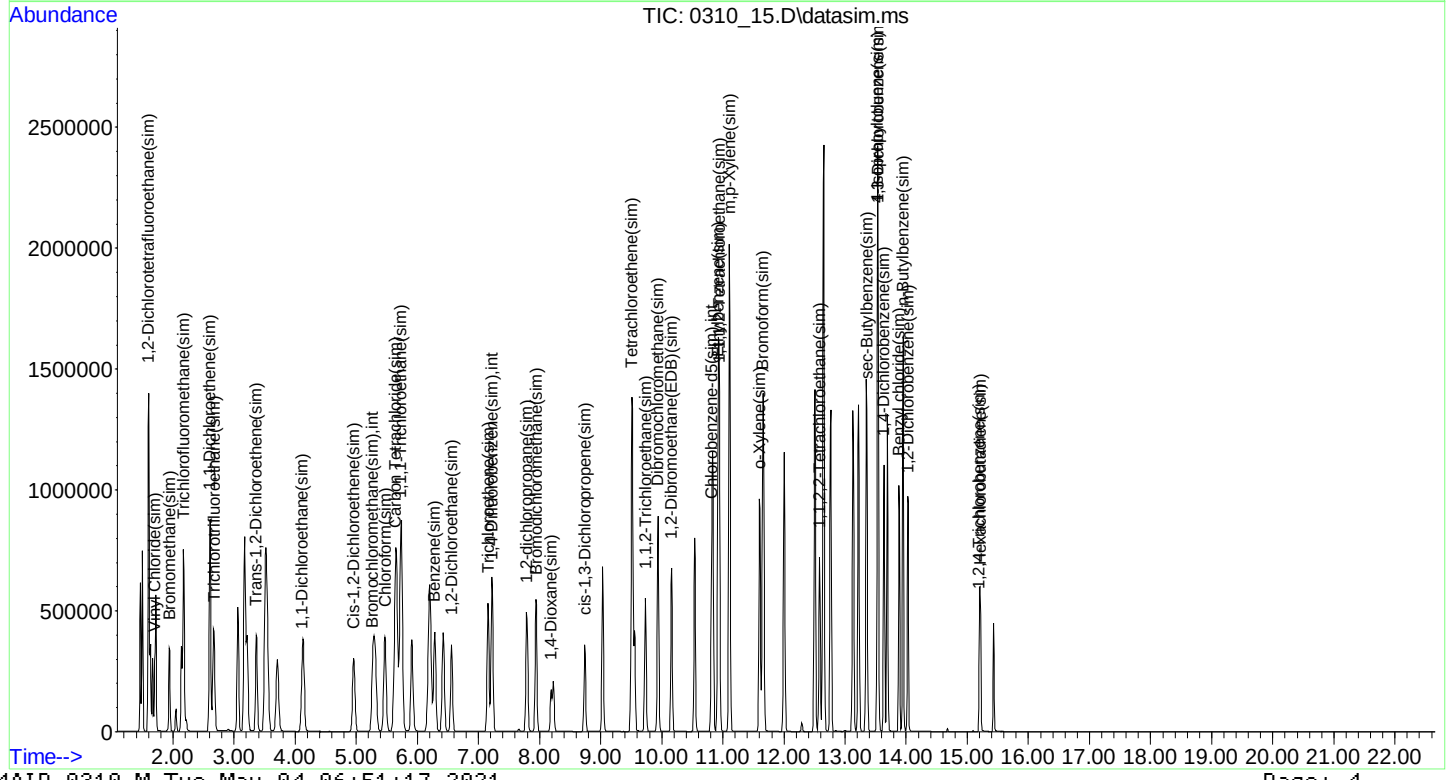
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM24\03MAR\10\
Data File : 0310_15.D
Acq On : 10 Mar 2021 5:26 pm
Operator : Keith
Client ID : ICAL 10
Lab ID : 10ppb
ALS Vial : 59 Sample Multiplier: 1

Quant Time: Mar 12 11:27:49 2021
Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 12 10:27:36 2021
Response via : Initial Calibration



7A
AIR CONTINUING CALIBRATION CHECK

Lab Name: Phoenix Environmental Labs Client: GC-ENV

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCH92051

Instrument: CHEM20 Calibration Date: 04/05/21 Time: 08:25

Lab File Id: 0405_02.D Init. Calib. Date(s): 03/26/21 03/27/21

Heated Purge (Y/N): Y Init. Calib. Times: 19:51 03:13

GC Column: RTX-1 60M Method File: 20_AIR_0329.M

| COMPOUND | RRF | RRF1 | RRF MIN | %D | % D LIMITS |
|---|---|---|---|---|---|
| Propylene | 1.761 | 1.823 | | -3.5 | 30 |
| Dichlorodifluoromethane | 3.010 | 3.175 | | -5.5 | 30 |
| Chloromethane | 1.877 | 1.942 | | -3.5 | 30 |
| 1,2-Dichlorotetrafluoroethane | 2.903 | 2.961 | | -2.0 | 30 |
| Vinyl Chloride | 1.337 | 1.369 | | -2.4 | 30 |
| 1,3-Butadiene | 1.370 | 1.454 | | -6.1 | 30 |
| Bromomethane | 0.954 | 0.926 | | 2.9 | 30 |
| Chloroethane | 0.607 | 0.696 | | -14.7 | 30 |
| Ethanol | 0.844 | 1.055 | | -25.0 | 30 |
| Acetone | 3.085 | 4.058 | | -31.5 # | 30 |
| Trichlorofluoromethane | 3.129 | 3.737 | | -19.4 | 30 |
| Isopropylalcohol | 3.780 | 4.836 | | -27.9 | 30 |
| Acrylonitrile | 1.247 | 1.563 | | -25.3 | 30 |
| 1,1-Dichloroethene | 2.245 | 2.696 | | -20.1 | 30 |
| Methylene Chloride | 2.362 | 2.809 | | -18.9 | 30 |
| Carbon Disulfide | 2.739 | 2.670 | | 2.5 | 30 |
| Trichlorotrifluoroethane | 2.175 | 2.216 | | -1.9 | 30 |
| Trans-1,2-Dichloroethene | 2.038 | 1.987 | | 2.5 | 30 |
| 1,1-Dichloroethane | 2.299 | 2.335 | | -1.6 | 30 |
| Methyl tert-butyl ether(MTBE) | 3.036 | 2.957 | | 2.6 | 30 |
| Methyl Ethyl Ketone | 4.227 | 4.281 | | -1.3 | 30 |
| Cis-1,2-Dichloroethene | 1.929 | 1.999 | | -3.6 | 30 |
| Hexane | 2.341 | 2.366 | | -1.1 | 30 |
| Chloroform | 2.429 | 2.483 | | -2.2 | 30 |
| Ethyl acetate | 0.439 | 0.441 | | -0.5 | 30 |
| Tetrahydrofuran | 2.292 | 2.417 | | -5.5 | 30 |
| 1,2-Dichloroethane | 2.153 | 2.391 | | -11.1 | 30 |
| 1,1,1-Trichloroethane | 2.747 | 2.786 | | -1.4 | 30 |
| Benzene | 2.915 | 2.909 | | 0.2 | 30 |
| Carbon Tetrachloride | 2.908 | 3.010 | | -3.5 | 30 |
| Cyclohexane | 1.832 | 1.965 | | -7.3 | 30 |
| 1,2-dichloropropane | 0.378 | 0.389 | | -2.9 | 30 |
| Bromodichloromethane | 0.691 | 0.686 | | 0.7 | 30 |
| Trichloroethene | 0.384 | 0.376 | | 2.1 | 30 |
| 1,4-Dioxane | 0.177 | 0.165 | | 6.8 | 30 |

(*) Recommended RRF not met (+) %D exceeds criteria % (#) %D exceeds (maximum) criteria

%D: 20% of target compounds are allowed to be above criteria %, but must be less than the (maximum) %D

(#) Maximum %D not met.

7B
AIR CONTINUING CALIBRATION CHECK

Lab Name: Phoenix Environmental Labs Client: GC-ENV

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCH92051

Instrument: CHEM20 Calibration Date: 04/05/21 Time: 08:25

Lab File Id: 0405_02.D Init. Calib. Date(s): 03/26/21 03/27/21

Heated Purge (Y/N): Y Init. Calib. Times: 19:51 03:13

GC Column: RTX-1 60M Method File: 20_AIR_0329.M

| COMPOUND | RRF | RRF1 | RRF MIN | %D | % D LIMITS |
|---|---|---|---|---|---|
| Heptane | 0.999 | 1.069 | | -7.0 | 30 |
| cis-1,3-Dichloropropene | 0.475 | 0.472 | | 0.6 | 30 |
| 4-Methyl-2-pentanone(MIBK) | 1.247 | 1.385 | | -11.1 | 30 |
| trans-1,3-Dichloropropene | 0.548 | 0.566 | | -3.3 | 30 |
| 1,1,2-Trichloroethane | 0.348 | 0.331 | | 4.9 | 30 |
| Toluene | 0.955 | 0.929 | | 2.7 | 30 |
| Dibromochloromethane | 0.669 | 0.633 | | 5.4 | 30 |
| 2-Hexanone(MBK) | 1.078 | 1.133 | | -5.1 | 30 |
| 1,2-Dibromoethane(EDB) | 0.537 | 0.502 | | 6.5 | 30 |
| Tetrachloroethene | 0.479 | 0.430 | | 10.2 | 30 |
| 1,1,1,2-Tetrachloroethane | 0.901 | 0.912 | | -1.2 | 30 |
| Chlorobenzene | 1.478 | 1.450 | | 1.9 | 30 |
| Ethylbenzene | 2.397 | 2.324 | | 3.0 | 30 |
| m,p-Xylene | 1.822 | 1.478 | | 18.9 | 30 |
| Bromoform | 1.012 | 0.938 | | 7.3 | 30 |
| Styrene | 1.248 | 1.171 | | 6.2 | 30 |
| 1,1,2,2-Tetrachloroethane | 1.329 | 1.244 | | 6.4 | 30 |
| o-Xylene | 1.950 | 1.921 | | 1.5 | 30 |
| Isopropylbenzene | 2.724 | 2.646 | | 2.9 | 30 |
| 4-Ethyltoluene | 2.676 | 2.342 | | 12.5 | 30 |
| 1,3,5-Trimethylbenzene | 2.228 | 2.232 | | -0.2 | 30 |
| 1,2,4-Trimethylbenzene | 2.273 | 2.116 | | 6.9 | 30 |
| Benzyl chloride | 4.975 | 4.818 | | 3.2 | 30 |
| 1,3-Dichlorobenzene | 1.236 | 1.090 | | 11.8 | 30 |
| 1,4-Dichlorobenzene | 1.055 | 0.965 | | 8.5 | 30 |
| sec-Butylbenzene | 3.334 | 3.212 | | 3.7 | 30 |
| 4-Isopropyltoluene | 3.221 | 3.098 | | 3.8 | 30 |
| 1,2-Dichlorobenzene | 1.186 | 1.070 | | 9.8 | 30 |
| n-Butylbenzene | 2.231 | 1.970 | | 11.7 | 30 |
| 1,2,4-Trichlorobenzene | 0.396 | 0.281 | | 29.0 | 30 |
| Hexachlorobutadiene | 0.814 | 0.797 | | 2.1 | 30 |
| 1,2-Dichlorotetrafluoroethane(sim) | 2.752 | 2.579 | | 6.3 | 30 |
| Vinyl Chloride(sim) | 1.313 | 1.307 | | 0.5 | 30 |
| Bromomethane(sim) | 0.924 | 0.806 | | 12.8 | 30 |
| Trichlorofluoromethane(sim) | 3.112 | 3.450 | | -10.9 | 30 |

(*) Recommended RRF not met (+) %D exceeds criteria % (#) %D exceeds (maximum) criteria

%D: 20% of target compounds are allowed to be above criteria %, but must be less than the (maximum) %D

(#) Maximum %D not met.

7B
AIR CONTINUING CALIBRATION CHECK

Lab Name: Phoenix Environmental Labs Client: GC-ENV

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCH92051

Instrument: CHEM20 Calibration Date: 04/05/21 Time: 08:25

Lab File Id: 0405_02.D Init. Calib. Date(s): 03/26/21 03/27/21

Heated Purge (Y/N): Y Init. Calib. Times: 19:51 03:13

GC Column: RTX-1 60M Method File: 20_AIR_0329.M

| COMPOUND | RRF | RRF1 | RRF MIN | %D | % D LIMITS |
|---|---|---|---|---|---|
| 1,2-Dichloroethane(sim) | 1.992 | 2.082 | | -4.5 | 30 |
| 1,1,1-Trichloroethane(sim) | 2.654 | 2.673 | | -0.7 | 30 |
| Benzene(sim) | 2.595 | 2.533 | | 2.4 | 30 |
| Carbon Tetrachloride(sim) | 2.804 | 2.841 | | -1.3 | 30 |
| 1,1-Dichloroethene(sim) | 2.088 | 2.348 | | -12.5 | 30 |
| Trichlorotrifluoroethane(sim) | 2.204 | 2.126 | | 3.5 | 30 |
| Trans-1,2-Dichloroethene(sim) | 1.839 | 1.731 | | 5.9 | 30 |
| 1,1-Dichloroethane(sim) | 2.309 | 2.261 | | 2.1 | 30 |
| Cis-1,2-Dichloroethene(sim) | 1.735 | 1.741 | | -0.3 | 30 |
| Chloroform(sim) | 2.338 | 2.299 | | 1.7 | 30 |
| 1,2-dichloropropane(sim) | 0.432 | 0.409 | | 5.3 | 30 |
| Bromodichloromethane(sim) | 0.691 | 0.686 | | 0.7 | 30 |
| Trichloroethene(sim) | 0.455 | 0.430 | | 5.5 | 30 |
| 1,4-Dioxane(sim) | 0.180 | 0.165 | | 8.3 | 30 |
| cis-1,3-Dichloropropene(sim) | 0.532 | 0.522 | | 1.9 | 30 |
| 1,1,2-Trichloroethane(sim) | 0.365 | 0.331 | | 9.3 | 30 |
| Dibromochloromethane(sim) | 0.706 | 0.715 | | -1.3 | 30 |
| 1,2-Dibromoethane(EDB)(sim) | 0.512 | 0.500 | | 2.3 | 30 |
| Tetrachloroethene(sim) | 0.571 | 0.535 | | 6.3 | 30 |
| Bromoform(sim) | 1.125 | 1.099 | | 2.3 | 30 |
| m,p-Xylene(sim) | 1.964 | 1.862 | | 5.2 | 30 |
| 1,1,2,2-Tetrachloroethane(sim) | 1.493 | 1.375 | | 7.9 | 30 |
| Benzyl chloride(sim) | 1.163 | 1.192 | | -2.5 | 30 |
| 1,3-Dichlorobenzene(sim) | 1.304 | 1.262 | | 3.2 | 30 |
| 1,4-Dichlorobenzene(sim) | 0.976 | 0.965 | | 1.1 | 30 |
| sec-Butylbenzene(sim) | 3.722 | 3.514 | | 5.6 | 30 |
| 4-Isopropyltoluene(sim) | 3.304 | 3.098 | | 6.2 | 30 |
| 1,2-Dichlorobenzene(sim) | 1.335 | 1.222 | | 8.5 | 30 |
| n-Butylbenzene(sim) | 1.969 | 1.970 | | -0.1 | 30 |
| 1,2,4-Trichlorobenzene(sim) | 0.410 | 0.361 | | 12.0 | 30 |
| Hexachlorobutadiene(sim) | 1.255 | 1.047 | | 16.6 | 30 |
| % Bromofluorobenzene | 1.179 | 1.217 | | -3.2 | 30 |
| | | | | | |
| | | | | | |
| | | | | | |

(*) Recommended RRF not met (+) %D exceeds criteria % (#) %D exceeds (maximum) criteria

%D: 20% of target compounds are allowed to be above criteria %, but must be less than the (maximum) %D

(#) Maximum %D not met.

Evaluate Continuing Calibration Report

Data Path : H:\AIR2021\CHEM20\04APR\05\
Data File : 0405_02.D
Acq On : 5 Apr 2021 8:25 am
Operator :
Client ID : BFB TUNE - CCAL 1
Lab ID : 1.0ppb cc - 1.0ppb cc
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 05 09:51:16 2021
Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0329.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Mar 29 13:12:48 2021
Response via : Initial Calibration

Note: Curves (l,lf,q,qf) display calculated concentration.
Min. RRF : 0.000 Min. 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 | 74 |
| 2 | | Propylene | 1.761 | 1.823 | -3.5 | |
| 3 | | Dichlorodifluoromethane | 3.010 | 3.175 | -5.5 | |
| 4 | | Chloromethane | 1.877 | 1.942 | -3.5 | |
| 5 | | 1,2-Dichlorotetrafluoroetha | 2.903 | 2.961 | -2.0 | |
| 6 | | Vinyl Chloride | 1.337 | 1.369 | -2.4 | |
| 7 | | 1,3-Butadiene | 1.370 | 1.454 | -6.1 | |
| 8 | | Bromomethane | 0.954 | 0.926 | 2.9 | |
| 9 | | Chloroethane | 0.607 | 0.696 | -14.7 | |
| 11 | | Ethanol | 0.844 | 1.055 | -25.0 | |
| 12 | | Acetone | 3.085 | 4.058 | -31.5# | |
| 13 | | Trichlorofluoromethane | 3.129 | 3.737 | -19.4 | |
| 14 | | Isopropylalcohol | 3.780 | 4.836 | -27.9 | |
| 15 | | Acrylonitrile | 1.247 | 1.563 | -25.3 | |
| 16 | | 1,1-Dichloroethene | 2.245 | 2.696 | -20.1 | |
| 17 | | Methylene Chloride | 2.362 | 2.809 | -18.9 | |
| 20 | | Carbon Disulfide | 2.739 | 2.670 | 2.5 | |
| 21 | | Trichlorotrifluoroethane | 2.175 | 2.216 | -1.9 | |
| 22 | | Trans-1,2-Dichloroethene | 2.038 | 1.987 | 2.5 | |
| 23 | | 1,1-Dichloroethane | 2.299 | 2.335 | -1.6 | |
| 24 | | Methyl tert-butyl ether(MTB | 3.036 | 2.957 | 2.6 | |
| 26 | | Methyl Ethyl Ketone | 4.227 | 4.281 | -1.3 | |
| 27 | | Cis-1,2-Dichloroethene | 1.929 | 1.999 | -3.6 | |
| 28 | | Hexane | 2.341 | 2.366 | -1.1 | |
| 29 | | Chloroform | 2.429 | 2.483 | -2.2 | |
| 30 | | Ethyl acetate | 0.439 | 0.441 | -0.5 | |
| 31 | | Tetrahydrofuran | 2.292 | 2.417 | -5.5 | |
| 32 | | 1,2-Dichloroethane | 2.153 | 2.391 | -11.1 | |
| 33 | | 1,1,1-Trichloroethane | 2.747 | 2.786 | -1.4 | |
| 34 | | Benzene | 2.915 | 2.909 | 0.2 | |
| 35 | | Carbon Tetrachloride | 2.908 | 3.010 | -3.5 | |
| 36 | | Cyclohexane | 1.832 | 1.965 | -7.3 | |
| 37 | Int | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 71 |
| 38 | | 1,2-dichloropropane | 0.378 | 0.389 | -2.9 | |
| 39 | | Bromodichloromethane | 0.691 | 0.686 | 0.7 | |
| 40 | | Trichloroethene | 0.384 | 0.376 | 2.1 | |
| 42 | | 1,4-Dioxane | 0.177 | 0.165 | 6.8 | |
| 44 | | Heptane | 0.999 | 1.069 | -7.0 | |
| 45 | | cis-1,3-Dichloropropene | 0.475 | 0.472 | 0.6 | |
| 46 | | 4-Methyl-2-pentanone(MIBK) | 1.247 | 1.385 | -11.1 | |
| 47 | | trans-1,3-Dichloropropene | 0.548 | 0.566 | -3.3 | |
| 48 | | 1,1,2-Trichloroethane | 0.348 | 0.331 | 4.9 | |
| 49 | | Toluene | 0.955 | 0.929 | 2.7 | |
| 50 | | Dibromochloromethane | 0.669 | 0.633 | 5.4 | |
| 51 | | 2-Hexanone(MBK) | 1.078 | 1.133 | -5.1 | |
| 52 | | 1,2-Dibromoethane(EDB) | 0.537 | 0.502 | 6.5 | |
| 53 | | Tetrachloroethene | 0.479 | 0.430 | 10.2 | |
| 54 | Int | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 75 |
| 55 | | 1,1,1,2-Tetrachloroethane | 0.901 | 0.912 | -1.2 | |
| 56 | | Chlorobenzene | 1.478 | 1.450 | 1.9 | |
| 57 | | Ethylbenzene | 2.397 | 2.324 | 3.0 | |

Data Path : H:\AIR2021\CHEM20\04APR\05\
Data File : 0405_02.D
Acq On : 5 Apr 2021 8:25 am
Operator :
Client ID : BFB TUNE - CCAL 1
Lab ID : 1.0ppb cc - 1.0ppb cc
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 05 09:51:16 2021
Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0329.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Mar 29 13:12:48 2021
Response via : Initial Calibration

Note: Curves (l,lf,q,qf) display calculated concentration.
Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.20min
Max. RRF Dev : 30% Max. Rel. Area : 200%

| | | Compound | AvgRF | CCRF | %Dev | Area% | |
|---|---|---|---|---|---|---|---|
| 58 | | m,p-Xylene | 1.822 | 1.478 | 18.9 | | |
| 59 | | Bromoform | 1.012 | 0.938 | 7.3 | | |
| 60 | | Styrene | 1.248 | 1.171 | 6.2 | | |
| 61 | | 1,1,2,2-Tetrachloroethane | 1.329 | 1.244 | 6.4 | | |
| 62 | | o-Xylene | 1.950 | 1.921 | 1.5 | | |
| 63 | Surr | % Bromofluorobenzene | 1.179 | 1.217 | -3.2 | | |
| 65 | | Isopropylbenzene | 2.724 | 2.646 | 2.9 | | |
| 67 | | 4-Ethyltoluene | 2.676 | 2.342 | 12.5 | | |
| 68 | | 1,3,5-Trimethylbenzene | 2.228 | 2.232 | -0.2 | | |
| 69 | | 1,2,4-Trimethylbenzene | 2.273 | 2.116 | 6.9 | | |
| 71 | | Benzyl chloride | 4.975 | 4.818 | 3.2 | | |
| 72 | | 1,3-Dichlorobenzene | 1.236 | 1.090 | 11.8 | | |
| 73 | | 1,4-Dichlorobenzene | 1.055 | 0.965 | 8.5 | | |
| 74 | | sec-Butylbenzene | 3.334 | 3.212 | 3.7 | | |
| 75 | | 4-Isopropyltoluene | 3.221 | 3.098 | 3.8 | | |
| 76 | | 1,2-Dichlorobenzene | 1.186 | 1.070 | 9.8 | | |
| 77 | | n-Butylbenzene | 2.231 | 1.970 | 11.7 | | |
| 78 | | 1,2,4-Trichlorobenzene | 0.396 | 0.281 | 29.0 | | |
| 80 | | Hexachlorobutadiene | 0.814 | 0.797 | 2.1 | | |
| 81 | int | Bromochloromethane(sim) | 1.000 | 1.000 | 0.0 | 74 | |
| 82 | | 1,2-Dichlorotetrafluoroetha | 2.752 | 2.579 | 6.3 | | |
| 83 | | Vinyl Chloride(sim) | 1.313 | 1.307 | 0.5 | | |
| 84 | | Bromomethane(sim) | 0.924 | 0.806 | 12.8 | | |
| 85 | | Trichlorofluoromethane(sim) | 3.112 | 3.450 | -10.9 | | |
| 86 | | 1,2-Dichloroethane(sim) | 1.992 | 2.082 | -4.5 | | |
| 87 | | 1,1,1-Trichloroethane(sim) | 2.654 | 2.673 | -0.7 | | |
| 88 | | Benzene(sim) | 2.595 | 2.533 | 2.4 | | |
| 89 | | Carbon Tetrachloride(sim) | 2.804 | 2.841 | -1.3 | | |
| 90 | | 1,1-Dichloroethene(sim) | 2.088 | 2.348 | -12.5 | | |
| 91 | | Trichlorotrifluoroethane(si | 2.204 | 2.126 | 3.5 | | |
| 92 | | Trans-1,2-Dichloroethene(si | 1.839 | 1.731 | 5.9 | | |
| 93 | | 1,1-Dichloroethane(sim) | 2.309 | 2.261 | 2.1 | | |
| 94 | | Cis-1,2-Dichloroethene(sim) | 1.735 | 1.741 | -0.3 | | |
| 95 | | Chloroform(sim) | 2.338 | 2.299 | 1.7 | | |
| 96 | int | 1,4-Difluorobenzene(sim) | 1.000 | 1.000 | 0.0 | 71 | |
| 97 | | 1,2-dichloropropane(sim) | 0.432 | 0.409 | 5.3 | | |
| 98 | | Bromodichloromethane(sim) | 0.691 | 0.686 | 0.7 | | |
| 99 | | Trichloroethene(sim) | 0.455 | 0.430 | 5.5 | | |
| 100 | | 1,4-Dioxane(sim) | 0.180 | 0.165 | 8.3 | | |
| 101 | | cis-1,3-Dichloropropene(sim | 0.532 | 0.522 | 1.9 | | |
| 102 | | 1,1,2-Trichloroethane(sim) | 0.365 | 0.331 | 9.3 | | |
| 103 | | Dibromochloromethane(sim) | 0.706 | 0.715 | -1.3 | | |
| 104 | | 1,2-Dibromoethane(EDB)(sim) | 0.512 | 0.500 | 2.3 | | |
| 105 | | Tetrachloroethene(sim) | 0.571 | 0.535 | 6.3 | | |
| 106 | int | Chlorobenzene-d5(sim) | 1.000 | 1.000 | 0.0 | 75 | |
| 107 | | Bromoform(sim) | 1.125 | 1.099 | 2.3 | | |
| 108 | | m,p-Xylene(sim) | 1.964 | 1.862 | 5.2 | | |
| 109 | | 1,1,2,2-Tetrachloroethane(s | 1.493 | 1.375 | 7.9 | | |
| 112 | | Benzyl chloride(sim) | 1.163 | 1.192 | -2.5 | | |
| 113 | | 1,3-Dichlorobenzene(sim) | 1.304 | 1.262 | 3.2 | | |

Evaluate Continuing Calibration Report

Data Path : H:\AIR2021\CHEM20\04APR\05\
Data File : 0405_02.D
Acq On : 5 Apr 2021 8:25 am
Operator :
Client ID : BFB TUNE - CCAL 1
Lab ID : 1.0ppb cc - 1.0ppb cc
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 05 09:51:16 2021
Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0329.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Mar 29 13:12:48 2021
Response via : Initial Calibration

Note: Curves (l,lf,q,qf) display calculated concentration.
Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.20min
Max. RRF Dev : 30% Max. Rel. Area : 200%

| | Compound | AvgRF | CCRF | %Dev | Area% |
|---|---|---|---|---|---|
| 114 | 1,4-Dichlorobenzene(sim) | 0.976 | 0.965 | 1.1 | |
| 115 | sec-Butylbenzene(sim) | 3.722 | 3.514 | 5.6 | |
| 116 | 4-Isopropyltoluene(sim) | 3.304 | 3.098 | 6.2 | |
| 117 | 1,2-Dichlorobenzene(sim) | 1.335 | 1.222 | 8.5 | |
| 118 | n-Butylbenzene(sim) | 1.969 | 1.970 | -0.1 | |
| 119 | 1,2,4-Trichlorobenzene(sim) | 0.410 | 0.361 | 12.0 | |
| 121 | Hexachlorobutadiene(sim) | 1.255 | 1.047 | 16.6 | |

(#)=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:\AIR2021\CHEM20\04APR\05\
Data File : 0405_02.D
Acq On : 5 Apr 2021 8:25 am
Operator :
Client ID : BFB TUNE - CCAL 1
Lab ID : 1.0ppb cc - 1.0ppb cc
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 05 09:51:16 2021
Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0329.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Mar 29 13:12:48 2021
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Bromochloromethane | 6.704 | 130 | 194385 | 10.000 | ng | | 0.00 |
| 37) 1,4-Difluorobenzene | 7.889 | 114 | 732172 | 10.000 | ng | | 0.00 |
| 54) Chlorobenzene-d5 | 10.430 | 82 | 379201 | 10.000 | ng | | 0.00 |
| 81) Bromochloromethane(sim) | 6.710 | 130 | 223186 | 10.000 | ng | # | 0.00 |
| 96) 1,4-Difluorobenzene(sim) | 7.889 | 114 | 732172 | 10.000 | ng | | 0.00 |
| 106) Chlorobenzene-d5(sim) | 10.430 | 82 | 379201 | 10.000 | ng | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 63) % Bromofluorobenzene | 11.281 | 95 | 461588 | 10.328 | ppbv | | 0.00 |
| Spiked Amount 10.000 | Range 70 - 130 | | Recovery = 103.30% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) Propylene | 3.424 | 41 | 35446 | 1.036 | ppbv | | 92 |
| 3) Dichlorodifluoromethane | 3.478 | 85 | 61725 | 1.055 | ppbv | | 92 |
| 4) Chloromethane | 3.618 | 50 | 37756 | 1.035 | ppbv | | 97 |
| 5) 1,2-Dichlorotetrafluor... | 3.704 | 85 | 57565 | 1.020 | ppbv | | 98 |
| 6) Vinyl Chloride | 3.801 | 62 | 26607 | 1.024 | ppbv | | 92 |
| 7) 1,3-Butadiene | 3.909 | 54 | 28255 | 1.061 | ppbv | | 91 |
| 8) Bromomethane | 4.125 | 94 | 17991 | 0.970 | ppbv | | 94 |
| 9) Chloroethane | 4.254 | 64 | 13536 | 1.147 | ppbv# | | 77 |
| 11) Ethanol | 4.405 | 45 | 20516 | 1.251 | ppbv# | | 54 |
| 12) Acetone | 4.739 | 43 | 78875m | 1.315 | ppbv | | 86 |
| 13) Trichlorofluoromethane | 4.804 | 101 | 72643 | 1.194 | ppbv# | | 88 |
| 14) Isopropylalcohol | 4.933 | 45 | 93995m | 1.279 | ppbv | | 91 |
| 15) Acrylonitrile | 5.030 | 53 | 30379 | 1.253 | ppbv | | 85 |
| 16) 1,1-Dichloroethene | 5.235 | 61 | 52399 | 1.200 | ppbv# | | 85 |
| 17) Methylene Chloride | 5.321 | 49 | 54598 | 1.189 | ppbv | | 92 |
| 20) Carbon Disulfide | 5.519 | 76 | 51896 | 0.975 | ppbv | | 96 |
| 21) Trichlorotrifluoroethane | 5.493 | 101 | 43079 | 1.019 | ppbv | | 94 |
| 22) Trans-1,2-Dichloroethene | 5.931 | 61 | 38625 | 0.975 | ppbv | | 92 |
| 23) 1,1-Dichloroethane | 6.065 | 63 | 45395 | 1.016 | ppbv | | 96 |
| 24) Methyl tert-butyl ethe... | 6.136 | 73 | 57471 | 0.974 | ppbv# | | 1 |
| 26) Methyl Ethyl Ketone | 6.348 | 43 | 83219 | 1.013 | ppbv# | | 97 |
| 27) Cis-1,2-Dichloroethene | 6.589 | 61 | 38851 | 1.036 | ppbv | | 96 |
| 28) Hexane | 6.714 | 57 | 46000 | 1.011 | ppbv | | 98 |
| 29) Chloroform | 6.777 | 83 | 48274 | 1.023 | ppbv | | 99 |
| 30) Ethyl acetate | 6.746 | 61 | 8572 | 1.005 | ppbv | | 91 |
| 31) Tetrahydrofuran | 7.069 | 42 | 46977 | 1.054 | ppbv# | | 93 |
| 32) 1,2-Dichloroethane | 7.246 | 62 | 46469 | 1.111 | ppbv | | 95 |
| 33) 1,1,1-Trichloroethane | 7.402 | 97 | 54164 | 1.014 | ppbv | | 95 |
| 34) Benzene | 7.688 | 78 | 56542 | 0.998 | ppbv | | 95 |
| 35) Carbon Tetrachloride | 7.777 | 117 | 58501 | 1.035 | ppbv | | 96 |
| 36) Cyclohexane | 7.855 | 41 | 38188 | 1.073 | ppbv# | | 71 |
| 38) 1,2-dichloropropane | 8.189 | 63 | 28510 | 1.029 | ppbv | | 98 |
| 39) Bromodichloromethane | 8.312 | 83 | 50259 | 0.994 | ppbv | | 97 |
| 40) Trichloroethene | 8.334 | 130 | 27538 | 0.979 | ppbv | | 93 |
| 42) 1,4-Dioxane | 8.345 | 88 | 12058 | 0.929 | ppbv# | | 86 |
| 44) Heptane | 8.479 | 43 | 78299 | 1.070 | ppbv | | 94 |
| 45) cis-1,3-Dichloropropene | 8.835 | 75 | 34543 | 0.993 | ppbv | | 95 |
| 46) 4-Methyl-2-pentanone(M... | 8.858 | 43 | 101390 | 1.110 | ppbv# | | 92 |
| 47) trans-1,3-Dichloropropene | 9.143 | 75 | 41416 | 1.032 | ppbv# | | 91 |
| 48) 1,1,2-Trichloroethane | 9.250 | 97 | 24252 | 0.951 | ppbv | | 96 |
| 49) Toluene | 9.415 | 91 | 68017 | 0.973 | ppbv | | 99 |
| 50) Dibromochloromethane | 9.667 | 129 | 46378 | 0.947 | ppbv | | 95 |
| 51) 2-Hexanone(MBK) | 9.550 | 43 | 82969 | 1.051 | ppbv | | 98 |
| 52) 1,2-Dibromoethane(EDB) | 9.813 | 107 | 36767 | 0.934 | ppbv | | 94 |

Data Path : H:\AIR2021\CHEM20\04APR\05\
Data File : 0405_02.D
Acq On : 5 Apr 2021 8:25 am
Operator :
Client ID : BFB TUNE - CCAL 1
Lab ID : 1.0ppb cc - 1.0ppb cc
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 05 09:51:16 2021
Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0329.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Mar 29 13:12:48 2021
Response via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 53) | Tetrachloroethene | 10.065 | 166 | 31486 | 0.897 | ppbv# | 77 |
| 55) | 1,1,1,2-Tetrachloroethane | 10.440 | 131 | 34599 | 1.013 | ppbv | 99 |
| 56) | Chlorobenzene | 10.450 | 112 | 54970 | 0.980 | ppbv# | 66 |
| 57) | Ethylbenzene | 10.655 | 91 | 88109 | 0.969 | ppbv | 95 |
| 58) | m,p-Xylene | 10.748 | 91 | 140087 | 2.027 | ppbv | 95 |
| 59) | Bromoform | 10.819 | 173 | 35576 | 0.927 | ppbv | 92 |
| 60) | Styrene | 10.953 | 104 | 44386 | 0.938 | ppbv | 98 |
| 61) | 1,1,2,2-Tetrachloroethane | 11.014 | 83 | 47154 | 0.935 | ppbv | 94 |
| 62) | o-Xylene | 11.014 | 91 | 72847 | 0.985 | ppbv | 94 |
| 65) | Isopropylbenzene | 11.342 | 105 | 100344 | 0.971 | ppbv | 99 |
| 67) | 4-Ethyltoluene | 11.722 | 105 | 88816 | 0.875 | ppbv | 98 |
| 68) | 1,3,5-Trimethylbenzene | 11.763 | 105 | 84655 | 1.002 | ppbv# | 98 |
| 69) | 1,2,4-Trimethylbenzene | 12.019 | 105 | 80251 | 0.931 | ppbv | 96 |
| 71) | Benzyl chloride | 11.639 | 91 | 182687 | 0.968 | ppbv | 96 |
| 72) | 1,3-Dichlorobenzene | 12.122 | 146 | 41332 | 0.882 | ppbv | 95 |
| 73) | 1,4-Dichlorobenzene | 12.163 | 146 | 36600 | 0.915 | ppbv | 99 |
| 74) | sec-Butylbenzene | 12.183 | 105 | 121781 | 0.963 | ppbv | 98 |
| 75) | 4-Isopropyltoluene | 12.276 | 119 | 117490 | 0.962 | ppbv | 98 |
| 76) | 1,2-Dichlorobenzene | 12.389 | 146 | 40561 | 0.902 | ppbv | 92 |
| 77) | n-Butylbenzene | 12.542 | 91 | 74693 | 0.883 | ppbv | 100 |
| 78) | 1,2,4-Trichlorobenzene | 13.517 | 180 | 10667 | 0.711 | ppbv# | 87 |
| 80) | Hexachlorobutadiene | 13.846 | 225 | 30206 | 0.978 | ppbv | 96 |
| 82] | 1,2-Dichlorotetrafluor... | 3.704 | 85 | 57567 | 0.937 | ppbv | 98 |
| 83] | Vinyl Chloride(sim) | 3.796 | 62 | 29166 | 0.995 | ppbv | 98 |
| 84] | Bromomethane(sim) | 4.125 | 94 | 17991 | 0.873 | ppbv | 94 |
| 85] | Trichlorofluoromethane... | 4.809 | 101 | 77006 | 1.109 | ppbv# | 99 |
| 86] | 1,2-Dichloroethane(sim) | 7.246 | 62 | 46469 | 1.045 | ppbv | 95 |
| 87] | 1,1,1-Trichloroethane(... | 7.407 | 97 | 59664 | 1.007 | ppbv# | 97 |
| 88] | Benzene(sim) | 7.688 | 78 | 56542 | 0.976 | ppbv | 95 |
| 89] | Carbon Tetrachloride(sim) | 7.783 | 117 | 63412 | 1.013 | ppbv | 99 |
| 90] | 1,1-Dichloroethene(sim) | 5.235 | 61 | 52399 | 1.124 | ppbv# | 87 |
| 91] | Trichlorotrifluoroetha... | 5.499 | 101 | 47456 | 0.965 | ppbv# | 99 |
| 92] | Trans-1,2-Dichloroethe... | 5.931 | 61 | 38625 | 0.941 | ppbv | 92 |
| 93] | 1,1-Dichloroethane(sim) | 6.070 | 63 | 50467 | 0.979 | ppbv | 100 |
| 94] | Cis-1,2-Dichloroethene... | 6.589 | 61 | 38851 | 1.003 | ppbv | 96 |
| 95] | Chloroform(sim) | 6.782 | 83 | 51302 | 0.983 | ppbv | 96 |
| 97] | 1,2-dichloropropane(sim) | 8.195 | 63 | 29927 | 0.946 | ppbv | 93 |
| 98] | Bromodichloromethane(sim) | 8.312 | 83 | 50259 | 0.994 | ppbv | 96 |
| 99] | Trichloroethene(sim) | 8.329 | 130 | 31515 | 0.945 | ppbv | 98 |
| 100] | 1,4-Dioxane(sim) | 8.345 | 88 | 12058 | 0.915 | ppbv# | 86 |
| 101] | cis-1,3-Dichloropropen... | 8.841 | 75 | 38202 | 0.982 | ppbv | 99 |
| 102] | 1,1,2-Trichloroethane(... | 9.250 | 97 | 24252 | 0.908 | ppbv | 96 |
| 103] | Dibromochloromethane(sim) | 9.673 | 129 | 52378 | 1.013 | ppbv | 98 |
| 104] | 1,2-Dibromoethane(EDB)... | 9.813 | 107 | 36625 | 0.976 | ppbv | 94 |
| 105] | Tetrachloroethene(sim) | 10.070 | 166 | 39137 | 0.937 | ppbv | 98 |
| 107] | Bromoform(sim) | 10.825 | 173 | 41689 | 0.977 | ppbv | 100 |
| 108] | m,p-Xylene(sim) | 10.748 | 91 | 141189 | 1.896 | ppbv | 96 |
| 109] | 1,1,2,2-Tetrachloroeth... | 11.020 | 83 | 52127 | 0.921 | ppbv | 99 |
| 112] | Benzyl chloride(sim) | 12.111 | 91 | 45187 | 1.024 | ppbv | 94 |
| 113] | 1,3-Dichlorobenzene(sim) | 12.127 | 146 | 47851 | 0.968 | ppbv | 96 |
| 114] | 1,4-Dichlorobenzene(sim) | 12.163 | 146 | 36600 | 0.989 | ppbv | 99 |
| 115] | sec-Butylbenzene(sim) | 12.179 | 105 | 133258 | 0.944 | ppbv | 99 |
| 116] | 4-Isopropyltoluene(sim) | 12.276 | 119 | 117490 | 0.938 | ppbv | 98 |
| 117] | 1,2-Dichlorobenzene(sim) | 12.384 | 146 | 46345 | 0.915 | ppbv | 99 |
| 118] | n-Butylbenzene(sim) | 12.542 | 91 | 74693 | 1.001 | ppbv | 100 |
| 119] | 1,2,4-Trichlorobenzene... | 13.523 | 180 | 13697 | 0.880 | ppbv | 97 |
| 121] | Hexachlorobutadiene(sim) | 13.851 | 225 | 39685 | 0.834 | ppbv | 100 |

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2021\CHEM20\04APR\05\
Data File : 0405_02.D
Acq On : 5 Apr 2021 8:25 am
Operator :
Client ID : BFB TUNE - CCAL 1
Lab ID : 1.0ppb cc - 1.0ppb cc
ALS Vial : 2 Sample Multiplier: 1

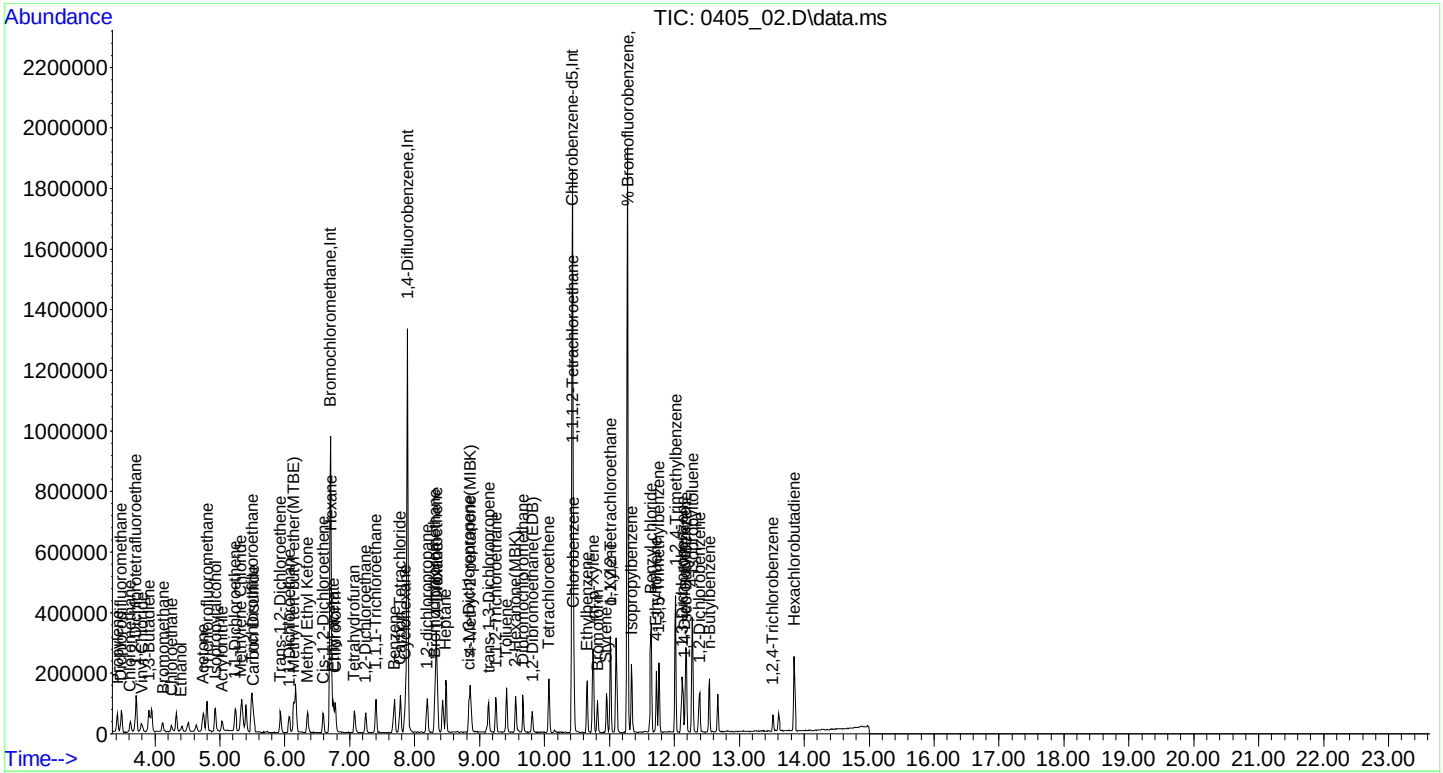
Quant Time: Apr 05 09:51:16 2021
Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0329.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Mar 29 13:12:48 2021
Response via : Initial Calibration

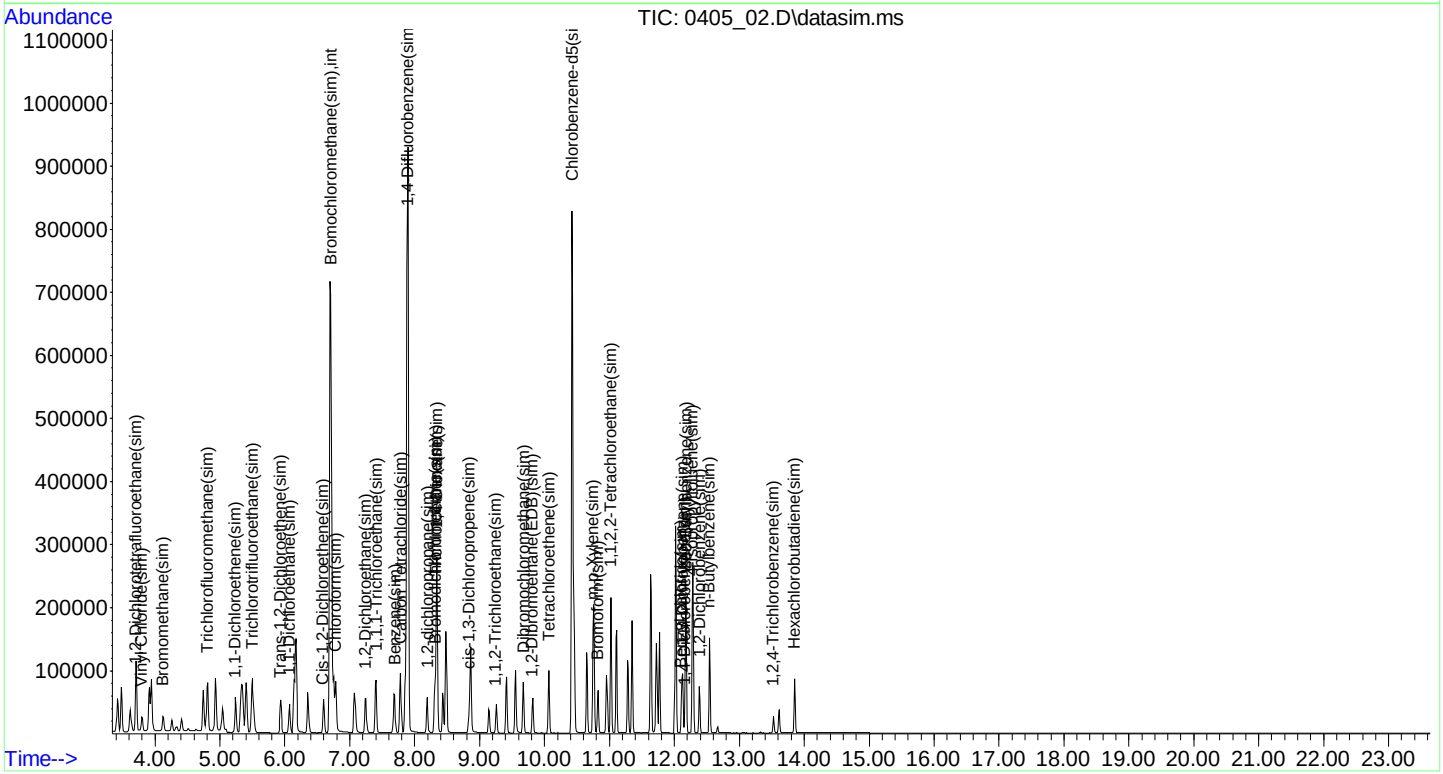
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

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

Data Path : H:\AIR2021\CHEM20\04APR\05\
Data File : 0405_02.D
Acq On : 5 Apr 2021 8:25 am
Operator :
Client ID : BFB TUNE - CCAL 1
Lab ID : 1.0ppb cc - 1.0ppb cc
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 05 09:51:16 2021
Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0329.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Mar 29 13:12:48 2021
Response via : Initial Calibration



7A
AIR CONTINUING CALIBRATION CHECK

Lab Name: Phoenix Environmental Labs Client: GC-ENV

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCH92051

Instrument: CHEM24 Calibration Date: 04/06/21 Time: 10:58

Lab File Id: 0405_34.D Init. Calib. Date(s): 03/10/21 03/10/21

Heated Purge (Y/N): Y Init. Calib. Times: 11:22 17:26

GC Column: RTX-VMS Method File: 24AIR_0310.M

| COMPOUND | RRF | RRF1 | RRF MIN | %D | % D LIMITS |
|---|---|---|---|---|---|
| Propylene | 0.995 | 1.099 | | -10.5 | 30 |
| Dichlorodifluoromethane | 1.826 | 1.913 | | -4.8 | 30 |
| Chloromethane | 1.381 | 1.743 | | -26.2 | 30 |
| 1,2-Dichlorotetrafluoroethane | 1.611 | 1.782 | | -10.6 | 30 |
| Vinyl Chloride | 0.840 | 0.931 | | -10.8 | 30 |
| 1,3-Butadiene | 0.724 | 0.797 | | -10.1 | 30 |
| Bromomethane | 0.816 | 0.903 | | -10.7 | 30 |
| Chloroethane | 0.331 | 0.372 | | -12.4 | 30 |
| Ethanol | 0.444 | 0.538 | | -21.2 | 30 |
| Acetone | 2.571 | 3.147 | | -22.4 | 30 |
| Trichlorofluoromethane | 2.564 | 2.764 | | -7.8 | 30 |
| Isopropylalcohol | 2.280 | 2.821 | | -23.7 | 30 |
| Acrylonitrile | 0.681 | 0.740 | | -8.7 | 30 |
| 1,1-Dichloroethene | 1.540 | 1.720 | | -11.7 | 30 |
| Methylene Chloride | 1.590 | 1.655 | | -4.1 | 30 |
| Carbon Disulfide | 1.973 | 2.131 | | -8.0 | 30 |
| Trichlorotrifluoroethane | 1.809 | 1.953 | | -8.0 | 30 |
| Trans-1,2-Dichloroethene | 1.344 | 1.457 | | -8.4 | 30 |
| 1,1-Dichloroethane | 1.593 | 1.724 | | -8.2 | 30 |
| Methyl tert-butyl ether(MTBE) | 1.833 | 2.021 | | -10.3 | 30 |
| Methyl Ethyl Ketone | 2.651 | 2.877 | | -8.5 | 30 |
| Cis-1,2-Dichloroethene | 1.441 | 1.522 | | -5.6 | 30 |
| Hexane | 1.785 | 2.037 | | -14.1 | 30 |
| Chloroform | 1.901 | 2.127 | | -11.9 | 30 |
| Ethyl acetate | 3.210 | 3.469 | | -8.1 | 30 |
| Tetrahydrofuran | 0.876 | 0.976 | | -11.4 | 30 |
| 1,2-Dichloroethane | 1.503 | 1.696 | | -12.8 | 30 |
| 1,1,1-Trichloroethane | 2.083 | 2.260 | | -8.5 | 30 |
| Benzene | 2.076 | 2.232 | | -7.5 | 30 |
| Carbon Tetrachloride | 2.388 | 2.611 | | -9.3 | 30 |
| Cyclohexane | 1.401 | 1.544 | | -10.2 | 30 |
| 1,2-dichloropropane | 0.316 | 0.333 | | -5.4 | 30 |
| Bromodichloromethane | 0.668 | 0.709 | | -6.1 | 30 |
| Trichloroethene | 0.402 | 0.404 | | -0.5 | 30 |
| 1,4-Dioxane | 0.135 | 0.142 | | -5.2 | 30 |

(*) Recommended RRF not met (+) %D exceeds criteria % (#) %D exceeds (maximum) criteria

%D: 20% of target compounds are allowed to be above criteria %, but must be less than the (maximum) %D

(#) Maximum %D not met.

7B
AIR CONTINUING CALIBRATION CHECK

Lab Name: Phoenix Environmental Labs Client: GC-ENV

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCH92051

Instrument: CHEM24 Calibration Date: 04/06/21 Time: 10:58

Lab File Id: 0405_34.D Init. Calib. Date(s): 03/10/21 03/10/21

Heated Purge (Y/N): Y Init. Calib. Times: 11:22 17:26

GC Column: RTX-VMS Method File: 24AIR_0310.M

| COMPOUND | RRF | RRF1 | RRF MIN | %D | % D LIMITS |
|---|---|---|---|---|---|
| Heptane | 0.714 | 0.779 | | -9.1 | 30 |
| cis-1,3-Dichloropropene | 0.416 | 0.412 | | 1.0 | 30 |
| 4-Methyl-2-pentanone(MIBK) | 0.974 | 1.039 | | -6.7 | 30 |
| trans-1,3-Dichloropropene | 0.417 | 0.438 | | -5.0 | 30 |
| 1,1,2-Trichloroethane | 0.357 | 0.362 | | -1.4 | 30 |
| Toluene | 0.815 | 0.810 | | 0.6 | 30 |
| Dibromochloromethane | 0.835 | 0.863 | | -3.4 | 30 |
| 2-Hexanone(MBK) | 0.897 | 0.929 | | -3.6 | 30 |
| 1,2-Dibromoethane(EDB) | 0.624 | 0.644 | | -3.2 | 30 |
| Tetrachloroethene | 0.488 | 0.475 | | 2.7 | 30 |
| 1,1,1,2-Tetrachloroethane | 1.126 | 1.181 | | -4.9 | 30 |
| Chlorobenzene | 1.717 | 1.774 | | -3.3 | 30 |
| Ethylbenzene | 2.509 | 2.575 | | -2.6 | 30 |
| m,p-Xylene | 1.887 | 1.621 | | 14.1 | 30 |
| Bromoform | 1.531 | 1.608 | | -5.0 | 30 |
| Styrene | 1.353 | 1.357 | | -0.3 | 30 |
| 1,1,2,2-Tetrachloroethane | 1.644 | 1.671 | | -1.6 | 30 |
| o-Xylene | 1.886 | 1.923 | | -2.0 | 30 |
| Isopropylbenzene | 2.641 | 2.668 | | -1.0 | 30 |
| 4-Ethyltoluene | 2.793 | 2.934 | | -5.0 | 30 |
| 1,3,5-Trimethylbenzene | 2.281 | 2.452 | | -7.5 | 30 |
| 1,2,4-Trimethylbenzene | 2.178 | 2.313 | | -6.2 | 30 |
| Benzyl chloride | 1.544 | 1.571 | | -1.7 | 30 |
| 1,3-Dichlorobenzene | 1.586 | 1.623 | | -2.3 | 30 |
| 1,4-Dichlorobenzene | 1.484 | 1.493 | | -0.6 | 30 |
| sec-Butylbenzene | 3.164 | 3.297 | | -4.2 | 30 |
| 4-Isopropyltoluene | 2.530 | 2.587 | | -2.3 | 30 |
| 1,2-Dichlorobenzene | 1.266 | 1.290 | | -1.9 | 30 |
| n-Butylbenzene | 1.938 | 2.012 | | -3.8 | 30 |
| 1,2,4-Trichlorobenzene qfi | 1.000 | 0.70 | | 30.0 # | 20 |
| Hexachlorobutadiene | 0.575 | 0.572 | | 0.5 | 30 |
| 1,2-Dichlorotetrafluoroethane(sim) | 1.713 | 1.709 | | 0.2 | 30 |
| Vinyl Chloride(sim) | 0.915 | 0.968 | | -5.8 | 30 |
| Bromomethane(sim) | 0.909 | 0.867 | | 4.6 | 30 |
| Trichlorofluoromethane(sim) | 2.844 | 2.811 | | 1.2 | 30 |

(*) Recommended RRF not met (+) %D exceeds criteria % (#) %D exceeds (maximum) criteria

%D: 20% of target compounds are allowed to be above criteria %, but must be less than the (maximum) %D

(#) Maximum %D not met.

7B
AIR CONTINUING CALIBRATION CHECK

Lab Name: Phoenix Environmental Labs Client: GC-ENV

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCH92051

Instrument: CHEM24 Calibration Date: 04/06/21 Time: 10:58

Lab File Id: 0405_34.D Init. Calib. Date(s): 03/10/21 03/10/21

Heated Purge (Y/N): Y Init. Calib. Times: 11:22 17:26

GC Column: RTX-VMS Method File: 24AIR_0310.M

| COMPOUND | RRF | RRF1 | RRF MIN | %D | % D LIMITS |
|---|---|---|---|---|---|
| 1,1,1-Trichloroethane(sim) | 2.108 | 2.165 | | -2.7 | 30 |
| Benzene(sim) | 2.327 | 2.314 | | 0.6 | 30 |
| Carbon Tetrachloride(sim) | 2.432 | 2.504 | | -3.0 | 30 |
| 1,1-Dichloroethene(sim) | 1.726 | 1.756 | | -1.7 | 30 |
| Trichlorotrifluoroethane(sim) | 1.886 | 1.874 | | 0.6 | 30 |
| Trans-1,2-Dichloroethene(sim) | 1.489 | 1.530 | | -2.8 | 30 |
| 1,1-Dichloroethane(sim) | 1.713 | 1.654 | | 3.4 | 30 |
| Cis-1,2-Dichloroethene(sim) | 1.511 | 1.619 | | -7.1 | 30 |
| Chloroform(sim) | 1.977 | 2.041 | | -3.2 | 30 |
| 1,2-Dichloroethane(sim) | 1.678 | 1.719 | | -2.4 | 30 |
| 1,2-dichloropropane(sim) | 0.365 | 0.357 | | 2.2 | 30 |
| Bromodichloromethane(sim) | 0.698 | 0.709 | | -1.6 | 30 |
| Trichloroethene(sim) | 0.449 | 0.427 | | 4.9 | 30 |
| 1,4-Dioxane(sim) | 0.135 | 0.142 | | -5.2 | 30 |
| cis-1,3-Dichloropropene(sim) | 0.441 | 0.461 | | -4.5 | 30 |
| 1,1,2-Trichloroethane(sim) | 0.373 | 0.362 | | 2.9 | 30 |
| Dibromochloromethane(sim) | 0.880 | 0.883 | | -0.3 | 30 |
| 1,2-Dibromoethane(EDB)(sim) | 0.635 | 0.644 | | -1.4 | 30 |
| Tetrachloroethene(sim) | 0.523 | 0.502 | | 4.0 | 30 |
| Bromoform(sim) | 1.571 | 1.593 | | -1.4 | 30 |
| 1,1,1,2-Tetrachloroethane(sim) | 1.170 | 1.181 | | -0.9 | 30 |
| Ethylbenzene(sim) | 2.735 | 2.766 | | -1.1 | 30 |
| m,p-Xylene(sim) | 1.862 | 2.028 | | -8.9 | 30 |
| o-Xylene(sim) | 1.948 | 2.019 | | -3.6 | 30 |
| 1,1,2,2-Tetrachloroethane(sim) | 1.730 | 1.671 | | 3.4 | 30 |
| Benzyl chloride(sim) | 1.402 | 1.666 | | -18.8 | 30 |
| 1,3-Dichlorobenzene(sim) | 1.619 | 1.623 | | -0.2 | 30 |
| 1,4-Dichlorobenzene(sim) | 1.620 | 1.682 | | -3.8 | 30 |
| sec-Butylbenzene(sim) | 2.951 | 3.297 | | -11.7 | 30 |
| 4-Isopropyltoluene(sim) | 2.481 | 2.846 | | -14.7 | 30 |
| 1,2-Dichlorobenzene(sim) | 1.252 | 1.286 | | -2.7 | 30 |
| n-Butylbenzene(sim) | 1.774 | 2.151 | | -21.3 | 30 |
| 1,2,4-Trichlorobenzene(sim) qfi | 1.000 | 1.17 | | -17.0 | 20 |
| Hexachlorobutadiene(sim) | 0.683 | 0.598 | | 12.4 | 30 |
| % Bromofluorobenzene | 1.387 | 1.364 | | 1.7 | 30 |

(*) Recommended RRF not met (+) %D exceeds criteria % (#) %D exceeds (maximum) criteria

%D: 20% of target compounds are allowed to be above criteria %, but must be less than the (maximum) %D

(#) Maximum %D not met.

Evaluate Continuing Calibration Report

Data Path : H:\AIR2021\CHEM24\04APR\05\
Data File : 0405_34.D
Acq On : 6 Apr 2021 10:58 am
Operator : Keith
Client ID : BFB TUNE - CCAL 1
Lab ID : 1ppb cc - 1ppb cc
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Apr 06 21:36:33 2021
Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 12 10:34:44 2021
Response via : Initial Calibration

Note: Curves (l,lf,q,qf) display calculated concentration.
Min. RRF : 0.000 Min. 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 | 117 |
| 2 | | Propylene | 0.995 | 1.099 | -10.5 | |
| 3 | | Dichlorodifluoromethane | 1.826 | 1.913 | -4.8 | |
| 4 | | Chloromethane | 1.381 | 1.743 | -26.2 | |
| 5 | | 1,2-Dichlorotetrafluoroetha | 1.611 | 1.782 | -10.6 | |
| 6 | | Vinyl Chloride | 0.840 | 0.931 | -10.8 | |
| 7 | | 1,3-Butadiene | 0.724 | 0.797 | -10.1 | |
| 8 | | Bromomethane | 0.816 | 0.903 | -10.7 | |
| 9 | | Chloroethane | 0.331 | 0.372 | -12.4 | |
| 10 | | Ethanol | 0.444 | 0.538 | -21.2 | |
| 12 | | Acetone | 2.571 | 3.147 | -22.4 | |
| 13 | | Trichlorofluoromethane | 2.564 | 2.764 | -7.8 | |
| 14 | | Isopropylalcohol | 2.280 | 2.821 | -23.7 | |
| 15 | | Acrylonitrile | 0.681 | 0.740 | -8.7 | |
| 16 | | 1,1-Dichloroethene | 1.540 | 1.720 | -11.7 | |
| 17 | | Methylene Chloride | 1.590 | 1.655 | -4.1 | |
| 20 | | Carbon Disulfide | 1.973 | 2.131 | -8.0 | |
| 21 | | Trichlorotrifluoroethane | 1.809 | 1.953 | -8.0 | |
| 22 | | Trans-1,2-Dichloroethene | 1.344 | 1.457 | -8.4 | |
| 23 | | 1,1-Dichloroethane | 1.593 | 1.724 | -8.2 | |
| 24 | | Methyl tert-butyl ether(MTB | 1.833 | 2.021 | -10.3 | |
| 25 | | Methyl Ethyl Ketone | 2.651 | 2.877 | -8.5 | |
| 26 | | Cis-1,2-Dichloroethene | 1.441 | 1.522 | -5.6 | |
| 27 | | Hexane | 1.785 | 2.037 | -14.1 | |
| 28 | | Chloroform | 1.901 | 2.127 | -11.9 | |
| 29 | | Ethyl acetate | 3.210 | 3.469 | -8.1 | |
| 30 | | Tetrahydrofuran | 0.876 | 0.976 | -11.4 | |
| 31 | | 1,2-Dichloroethane | 1.503 | 1.696 | -12.8 | |
| 32 | | 1,1,1-Trichloroethane | 2.083 | 2.260 | -8.5 | |
| 33 | | Benzene | 2.076 | 2.232 | -7.5 | |
| 34 | | Carbon Tetrachloride | 2.388 | 2.611 | -9.3 | |
| 35 | | Cyclohexane | 1.401 | 1.544 | -10.2 | |
| 36 | Int | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 119 |
| 37 | | 1,2-dichloropropane | 0.316 | 0.333 | -5.4 | |
| 38 | | Bromodichloromethane | 0.668 | 0.709 | -6.1 | |
| 39 | | Trichloroethene | 0.402 | 0.404 | -0.5 | |
| 41 | | 1,4-Dioxane | 0.135 | 0.142 | -5.2 | |
| 43 | | Heptane | 0.714 | 0.779 | -9.1 | |
| 44 | | cis-1,3-Dichloropropene | 0.416 | 0.412 | 1.0 | |
| 45 | | 4-Methyl-2-pentanone(MIBK) | 0.974 | 1.039 | -6.7 | |
| 46 | | trans-1,3-Dichloropropene | 0.417 | 0.438 | -5.0 | |
| 47 | | 1,1,2-Trichloroethane | 0.357 | 0.362 | -1.4 | |
| 48 | | Toluene | 0.815 | 0.810 | 0.6 | |
| 49 | | Dibromochloromethane | 0.835 | 0.863 | -3.4 | |
| 50 | | 2-Hexanone(MBK) | 0.897 | 0.929 | -3.6 | |
| 51 | | 1,2-Dibromoethane(EDB) | 0.624 | 0.644 | -3.2 | |
| 52 | | Tetrachloroethene | 0.488 | 0.475 | 2.7 | |
| 53 | Int | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 118 |
| 54 | | 1,1,1,2-Tetrachloroethane | 1.126 | 1.181 | -4.9 | |
| 55 | | Chlorobenzene | 1.717 | 1.774 | -3.3 | |
| 56 | | Ethylbenzene | 2.509 | 2.575 | -2.6 | |

Data Path : H:\AIR2021\CHEM24\04APR\05\
Data File : 0405_34.D
Acq On : 6 Apr 2021 10:58 am
Operator : Keith
Client ID : BFB TUNE - CCAL 1
Lab ID : 1ppb cc - 1ppb cc
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Apr 06 21:36:33 2021
Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 12 10:34:44 2021
Response via : Initial Calibration

Note: Curves (l,lf,q,qf) display calculated concentration.
Min. RRF : 0.000 Min. 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 | 1.887 | 1.621 | 14.1 | | |
| 58 | | Bromoform | 1.531 | 1.608 | -5.0 | | |
| 59 | | Styrene | 1.353 | 1.357 | -0.3 | | |
| 60 | | 1,1,2,2-Tetrachloroethane | 1.644 | 1.671 | -1.6 | | |
| 61 | | o-Xylene | 1.886 | 1.923 | -2.0 | | |
| 62 | Surr | % Bromofluorobenzene | 1.387 | 1.364 | 1.7 | | |
| 64 | | Isopropylbenzene | 2.641 | 2.668 | -1.0 | | |
| 66 | | 4-Ethyltoluene | 2.793 | 2.934 | -5.0 | | |
| 67 | | 1,3,5-Trimethylbenzene | 2.281 | 2.452 | -7.5 | | |
| 68 | | 1,2,4-Trimethylbenzene | 2.178 | 2.313 | -6.2 | | |
| 70 | | Benzyl chloride | 1.544 | 1.571 | -1.7 | | |
| 71 | | 1,3-Dichlorobenzene | 1.586 | 1.623 | -2.3 | | |
| 72 | | 1,4-Dichlorobenzene | 1.484 | 1.493 | -0.6 | | |
| 73 | | sec-Butylbenzene | 3.164 | 3.297 | -4.2 | | |
| 74 | | 4-Isopropyltoluene | 2.530 | 2.587 | -2.3 | | |
| 75 | | 1,2-Dichlorobenzene | 1.266 | 1.290 | -1.9 | | |
| 76 | | n-Butylbenzene | 1.938 | 2.012 | -3.8 | | |
| 77 | qf | 1,2,4-Trichlorobenzene | 1.000 | 0.696 | 30.4# | | |
| 79 | | Hexachlorobutadiene | 0.575 | 0.572 | 0.5 | | |
| 80 | int | Bromochloromethane(sim) | 1.000 | 1.000 | 0.0 | 119 | |
| 81 | | 1,2-Dichlorotetrafluoroetha | 1.713 | 1.709 | 0.2 | | |
| 82 | | Vinyl Chloride(sim) | 0.915 | 0.968 | -5.8 | | |
| 83 | | Bromomethane(sim) | 0.909 | 0.867 | 4.6 | | |
| 84 | | Trichlorofluoromethane(sim) | 2.844 | 2.811 | 1.2 | | |
| 85 | | 1,1,1-Trichloroethane(sim) | 2.108 | 2.165 | -2.7 | | |
| 86 | | Benzene(sim) | 2.327 | 2.314 | 0.6 | | |
| 87 | | Carbon Tetrachloride(sim) | 2.432 | 2.504 | -3.0 | | |
| 88 | | 1,1-Dichloroethene(sim) | 1.726 | 1.756 | -1.7 | | |
| 89 | | Trichlorotrifluoroethane(si | 1.886 | 1.874 | 0.6 | | |
| 90 | | Trans-1,2-Dichloroethene(si | 1.489 | 1.530 | -2.8 | | |
| 91 | | 1,1-Dichloroethane(sim) | 1.713 | 1.654 | 3.4 | | |
| 92 | | Cis-1,2-Dichloroethene(sim) | 1.511 | 1.619 | -7.1 | | |
| 93 | | Chloroform(sim) | 1.977 | 2.041 | -3.2 | | |
| 94 | | 1,2-Dichloroethane(sim) | 1.678 | 1.719 | -2.4 | | |
| 95 | int | 1,4-Difluorobenzene(sim) | 1.000 | 1.000 | 0.0 | 119 | |
| 96 | | 1,2-dichloropropane(sim) | 0.365 | 0.357 | 2.2 | | |
| 97 | | Bromodichloromethane(sim) | 0.698 | 0.709 | -1.6 | | |
| 98 | | Trichloroethene(sim) | 0.449 | 0.427 | 4.9 | | |
| 99 | | 1,4-Dioxane(sim) | 0.135 | 0.142 | -5.2 | | |
| 100 | | cis-1,3-Dichloropropene(sim | 0.441 | 0.461 | -4.5 | | |
| 101 | | 1,1,2-Trichloroethane(sim) | 0.373 | 0.362 | 2.9 | | |
| 102 | | Dibromochloromethane(sim) | 0.880 | 0.883 | -0.3 | | |
| 103 | | 1,2-Dibromoethane(EDB)(sim) | 0.635 | 0.644 | -1.4 | | |
| 104 | | Tetrachloroethene(sim) | 0.523 | 0.502 | 4.0 | | |
| 105 | int | Chlorobenzene-d5(sim) | 1.000 | 1.000 | 0.0 | 118 | |
| 106 | | Bromoform(sim) | 1.571 | 1.593 | -1.4 | | |
| 107 | | 1,1,1,2-Tetrachloroethane(s | 1.170 | 1.181 | -0.9 | | |
| 108 | | Ethylbenzene(sim) | 2.735 | 2.766 | -1.1 | | |
| 109 | | m,p-Xylene(sim) | 1.862 | 2.028 | -8.9 | | |
| 110 | | o-Xylene(sim) | 1.948 | 2.019 | -3.6 | | |

Evaluate Continuing Calibration Report

Data Path : H:\AIR2021\CHEM24\04APR\05\
Data File : 0405_34.D
Acq On : 6 Apr 2021 10:58 am
Operator : Keith
Client ID : BFB TUNE - CCAL 1
Lab ID : 1ppb cc - 1ppb cc
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Apr 06 21:36:33 2021
Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 12 10:34:44 2021
Response via : Initial Calibration

Note: Curves (l,lf,q,qf) display calculated concentration.
Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.20min
Max. RRF Dev : 30% Max. Rel. Area : 200%

| | Compound | AvgRF | CCRF | %Dev Area% |
|---|---|---|---|---|
| 111 | 1,1,2,2-Tetrachloroethane(s | 1.730 | 1.671 | 3.4 |
| 114 | Benzyl chloride(sim) | 1.402 | 1.666 | -18.8 |
| 115 | 1,3-Dichlorobenzene(sim) | 1.619 | 1.623 | -0.2 |
| 116 | 1,4-Dichlorobenzene(sim) | 1.620 | 1.682 | -3.8 |
| 117 | sec-Butylbenzene(sim) | 2.951 | 3.297 | -11.7 |
| 118 | 4-Isopropyltoluene(sim) | 2.481 | 2.846 | -14.7 |
| 119 | 1,2-Dichlorobenzene(sim) | 1.252 | 1.286 | -2.7 |
| 120 | n-Butylbenzene(sim) | 1.774 | 2.151 | -21.3 |
| 121 qf | 1,2,4-Trichlorobenzene(sim) | 1.000 | 1.174 | -17.4 |
| 122 | Hexachlorobutadiene(sim) | 0.683 | 0.598 | 12.4 |

(#)=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:\AIR2021\CHEM24\04APR\05\
Data File : 0405_34.D
Acq On : 6 Apr 2021 10:58 am
Operator : Keith
Client ID : BFB TUNE - CCAL 1
Lab ID : 1ppb cc - 1ppb cc
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Apr 06 21:36:33 2021
Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 12 10:34:44 2021
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Bromochloromethane | 5.286 | 130 | 314567 | 10.000 | ng | | 0.02 |
| 36) 1,4-Difluorobenzene | 7.238 | 114 | 1006915 | 10.000 | ng | | 0.01 |
| 53) Chlorobenzene-d5 | 10.829 | 82 | 455972 | 10.000 | ng | | 0.01 |
| 80) Bromochloromethane(sim) | 5.289 | 130 | 327904 | 10.000 | ng | # | 0.02 |
| 95) 1,4-Difluorobenzene(sim) | 7.238 | 114 | 1006915 | 10.000 | ng | | 0.01 |
| 105) Chlorobenzene-d5(sim) | 10.829 | 82 | 455972 | 10.000 | ng | | 0.01 |
| System Monitoring Compounds | | | | | | | |
| 62) % Bromofluorobenzene | 12.303 | 95 | 622045 | 9.836 | ppbv | | 0.00 |
| Spiked Amount 10.000 | Range 70 - 130 | | Recovery = | 98.40% | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) Propylene | 1.485 | 41 | 34558 | 1.104 | ppbv | | 96 |
| 3) Dichlorodifluoromethane | 1.512 | 85 | 60189 | 1.048 | ppbv | | 98 |
| 4) Chloromethane | 1.649 | 50 | 54816 | 1.262 | ppbv | | 100 |
| 5) 1,2-Dichlorotetrafluor... | 1.615 | 135 | 56046 | 1.106 | ppbv | | 99 |
| 6) Vinyl Chloride | 1.718 | 62 | 29289 | 1.108 | ppbv | | 100 |
| 7) 1,3-Butadiene | 1.738 | 54 | 25060 | 1.100 | ppbv | | 95 |
| 8) Bromomethane | 1.958 | 94 | 28418 | 1.106 | ppbv | | 99 |
| 9) Chloroethane | 2.060 | 64 | 11703 | 1.123 | ppbv | | 91 |
| 10) Ethanol | 2.622 | 45 | 16908 | 1.210 | ppbv# | | 89 |
| 12) Acetone | 3.244 | 43 | 98988 | 1.224 | ppbv | | 100 |
| 13) Trichlorofluoromethane | 2.191 | 101 | 86931 | 1.078 | ppbv | | 96 |
| 14) Isopropylalcohol | 3.210 | 45 | 88731 | 1.237 | ppbv | | 94 |
| 15) Acrylonitrile | 4.167 | 53 | 23278 | 1.087 | ppbv | | 99 |
| 16) 1,1-Dichloroethene | 2.622 | 61 | 54090 | 1.116 | ppbv | | 97 |
| 17) Methylene Chloride | 3.190 | 49 | 52069 | 1.041 | ppbv | | 97 |
| 20) Carbon Disulfide | 2.629 | 76 | 67041 | 1.080 | ppbv | | 97 |
| 21) Trichlorotrifluoroethane | 2.683 | 101 | 61435 | 1.080 | ppbv | | 97 |
| 22) Trans-1,2-Dichloroethene | 3.381 | 61 | 45821 | 1.084 | ppbv | | 98 |
| 23) 1,1-Dichloroethane | 4.136 | 63 | 54222 | 1.082 | ppbv | | 99 |
| 24) Methyl tert-butyl ethe... | 3.580 | 73 | 63588 | 1.103 | ppbv | | 92 |
| 25) Methyl Ethyl Ketone | 5.942 | 43 | 90505 | 1.085 | ppbv | | 99 |
| 26) Cis-1,2-Dichloroethene | 4.977 | 61 | 47879 | 1.057 | ppbv | | 99 |
| 27) Hexane | 3.539 | 57 | 64083 | 1.141 | ppbv | | 91 |
| 28) Chloroform | 5.488 | 83 | 66921 | 1.119 | ppbv | | 97 |
| 29) Ethyl acetate | 5.769 | 43 | 109117 | 1.081 | ppbv | | 99 |
| 30) Tetrahydrofuran | 5.712 | 41 | 30702 | 1.114 | ppbv | | 91 |
| 31) 1,2-Dichloroethane | 6.574 | 62 | 53340 | 1.129 | ppbv | | 99 |
| 32) 1,1,1-Trichloroethane | 5.755 | 97 | 71089 | 1.085 | ppbv | | 99 |
| 33) Benzene | 6.307 | 78 | 70199 | 1.075 | ppbv | | 97 |
| 34) Carbon Tetrachloride | 5.661 | 117 | 82122 | 1.093 | ppbv | | 99 |
| 35) Cyclohexane | 5.329 | 56 | 48582 | 1.102 | ppbv | | 95 |
| 37) 1,2-dichloropropane | 7.807 | 63 | 33494 | 1.053 | ppbv | | 89 |
| 38) Bromodichloromethane | 7.957 | 83 | 71438 | 1.063 | ppbv | | 98 |
| 39) Trichloroethene | 7.170 | 130 | 40721 | 1.006 | ppbv | | 98 |
| 41) 1,4-Dioxane | 8.216 | 88 | 14281 | 1.050 | ppbv# | | 91 |
| 43) Heptane | 6.444 | 43 | 78485 | 1.092 | ppbv | | 98 |
| 44) cis-1,3-Dichloropropene | 8.750 | 75 | 41480 | 0.989 | ppbv | | 97 |
| 45) 4-Methyl-2-pentanone(M... | 9.537 | 43 | 104643 | 1.067 | ppbv | | 97 |
| 46) trans-1,3-Dichloropropene | 9.566 | 75 | 44098 | 1.051 | ppbv | | 99 |
| 47) 1,1,2-Trichloroethane | 9.746 | 97 | 36461 | 1.014 | ppbv | | 99 |
| 48) Toluene | 9.046 | 91 | 81565 | 0.994 | ppbv | | 99 |
| 49) Dibromochloromethane | 9.948 | 129 | 86930 | 1.034 | ppbv | | 97 |
| 50) 2-Hexanone(MBK) | 10.555 | 43 | 93570 | 1.036 | ppbv | | 96 |
| 51) 1,2-Dibromoethane(EDB) | 10.165 | 107 | 64835 | 1.031 | ppbv | | 100 |

Data Path : H:\AIR2021\CHEM24\04APR\05\
Data File : 0405_34.D
Acq On : 6 Apr 2021 10:58 am
Operator : Keith
Client ID : BFB TUNE - CCAL 1
Lab ID : 1ppb cc - 1ppb cc
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Apr 06 21:36:33 2021
Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 12 10:34:44 2021
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 52) Tetrachloroethene | 9.523 | 166 | 47872 | 0.975 | ppbv | 98 |
| 54) 1,1,1,2-Tetrachloroethane | 10.946 | 131 | 53868 | 1.050 | ppbv | 98 |
| 55) Chlorobenzene | 10.850 | 112 | 80880 | 1.033 | ppbv | 90 |
| 56) Ethylbenzene | 10.932 | 91 | 117395 | 1.026 | ppbv | 99 |
| 57) m,p-Xylene | 11.117 | 91 | 184748 | 2.147 | ppbv | 100 |
| 58) Bromoform | 11.659 | 173 | 73299 | 1.050 | ppbv | 99 |
| 59) Styrene | 11.680 | 104 | 61885 | 1.003 | ppbv | 98 |
| 60) 1,1,2,2-Tetrachloroethane | 12.595 | 83 | 76215 | 1.017 | ppbv | 100 |
| 61) o-Xylene | 11.611 | 91 | 87678 | 1.020 | ppbv | 98 |
| 64) Isopropylbenzene | 12.017 | 105 | 121669 | 1.010 | ppbv | 98 |
| 66) 4-Ethyltoluene | 12.659 | 105 | 133799 | 1.051 | ppbv | 98 |
| 67) 1,3,5-Trimethylbenzene | 12.770 | 105 | 111807 | 1.075 | ppbv | 98 |
| 68) 1,2,4-Trimethylbenzene | 13.230 | 105 | 105472 | 1.062 | ppbv | 98 |
| 70) Benzyl chloride | 13.892 | 91 | 71632 | 1.017 | ppbv | 98 |
| 71) 1,3-Dichlorobenzene | 13.548 | 146 | 74025 | 1.023 | ppbv | 98 |
| 72) 1,4-Dichlorobenzene | 13.646 | 146 | 68082 | 1.006 | ppbv | 99 |
| 73) sec-Butylbenzene | 13.360 | 105 | 150347 | 1.042 | ppbv | 99 |
| 74) 4-Isopropyltoluene | 13.542 | 119 | 117976 | 1.023 | ppbv | 98 |
| 75) 1,2-Dichlorobenzene | 14.035 | 146 | 58829 | 1.019 | ppbv | 99 |
| 76) n-Butylbenzene | 13.951 | 91 | 91726 | 1.038 | ppbv | 100 |
| 77) 1,2,4-Trichlorobenzene | 15.202 | 180 | 12593 | 0.696 | ppbv# | 90 |
| 79) Hexachlorobutadiene | 15.217 | 225 | 26084 | 0.995 | ppbv | 100 |
| 81] 1,2-Dichlorotetrafluor... | 1.615 | 135 | 56046 | 0.998 | ppbv | 98 |
| 82] Vinyl Chloride(sim) | 1.714 | 62 | 31743 | 1.058 | ppbv | 99 |
| 83] Bromomethane(sim) | 1.958 | 94 | 28418 | 0.953 | ppbv | 99 |
| 84] Trichlorofluoromethane... | 2.194 | 101 | 92166 | 0.988 | ppbv | 100 |
| 85] 1,1,1-Trichloroethane(... | 5.755 | 97 | 70982 | 1.027 | ppbv# | 99 |
| 86] Benzene(sim) | 6.303 | 78 | 75887 | 0.994 | ppbv | 97 |
| 87] Carbon Tetrachloride(sim) | 5.661 | 117 | 82122 | 1.030 | ppbv | 99 |
| 88] 1,1-Dichloroethene(sim) | 2.625 | 61 | 57594 | 1.018 | ppbv | 97 |
| 89] Trichlorotrifluoroetha... | 2.683 | 101 | 61435 | 0.993 | ppbv | 98 |
| 90] Trans-1,2-Dichloroethe... | 3.384 | 61 | 50155 | 1.027 | ppbv | 98 |
| 91] 1,1-Dichloroethane(sim) | 4.136 | 63 | 54222 | 0.965 | ppbv | 99 |
| 92] Cis-1,2-Dichloroethene... | 4.985 | 61 | 53091 | 1.072 | ppbv | 98 |
| 93] Chloroform(sim) | 5.488 | 83 | 66910 | 1.032 | ppbv | 97 |
| 94] 1,2-Dichloroethane(sim) | 6.577 | 62 | 56377 | 1.024 | ppbv | 100 |
| 96] 1,2-dichloropropane(sim) | 7.810 | 63 | 35929 | 0.979 | ppbv | 88 |
| 97] Bromodichloromethane(sim) | 7.957 | 83 | 71438 | 1.016 | ppbv | 98 |
| 98] Trichloroethene(sim) | 7.173 | 130 | 42974 | 0.950 | ppbv | 99 |
| 99] 1,4-Dioxane(sim) | 8.216 | 88 | 14281 | 1.052 | ppbv# | 90 |
| 100] cis-1,3-Dichloropropen... | 8.753 | 75 | 46392 | 1.046 | ppbv | 99 |
| 101] 1,1,2-Trichloroethane(... | 9.746 | 97 | 36461 | 0.971 | ppbv | 99 |
| 102] Dibromochloromethane(sim) | 9.951 | 129 | 88899 | 1.004 | ppbv | 100 |
| 103] 1,2-Dibromoethane(EDB)... | 10.165 | 107 | 64835 | 1.014 | ppbv | 100 |
| 104] Tetrachloroethene(sim) | 9.525 | 166 | 50535 | 0.960 | ppbv | 98 |
| 106] Bromoform(sim) | 11.662 | 173 | 72640 | 1.014 | ppbv | 100 |
| 107] 1,1,1,2-Tetrachloroeth... | 10.946 | 131 | 53868 | 1.010 | ppbv | 98 |
| 108] Ethylbenzene(sim) | 10.935 | 91 | 126118 | 1.011 | ppb | 99 |
| 109] m,p-Xylene(sim) | 11.117 | 91 | 184925 | 2.178 | ppbv | 100 |
| 110] o-Xylene(sim) | 11.614 | 91 | 92052 | 1.036 | ppb | 100 |
| 111] 1,1,2,2-Tetrachloroeth... | 12.595 | 83 | 76215 | 0.966 | ppbv | 100 |
| 114] Benzyl chloride(sim) | 13.889 | 91 | 75962 | 1.188 | ppbv | 99 |
| 115] 1,3-Dichlorobenzene(sim) | 13.548 | 146 | 74025 | 1.003 | ppbv | 98 |
| 116] 1,4-Dichlorobenzene(sim) | 13.642 | 146 | 76717 | 1.039 | ppbv | 100 |
| 117] sec-Butylbenzene(sim) | 13.360 | 105 | 150347 | 1.117 | ppbv | 99 |
| 118] 4-Isopropyltoluene(sim) | 13.545 | 119 | 129776 | 1.147 | ppbv | 99 |
| 119] 1,2-Dichlorobenzene(sim) | 14.035 | 146 | 58625 | 1.027 | ppbv | 98 |

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2021\CHEM24\04APR\05\
Data File : 0405_34.D
Acq On : 6 Apr 2021 10:58 am
Operator : Keith
Client ID : BFB TUNE - CCAL 1
Lab ID : 1ppb cc - 1ppb cc
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Apr 06 21:36:33 2021
Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 12 10:34:44 2021
Response via : Initial Calibration

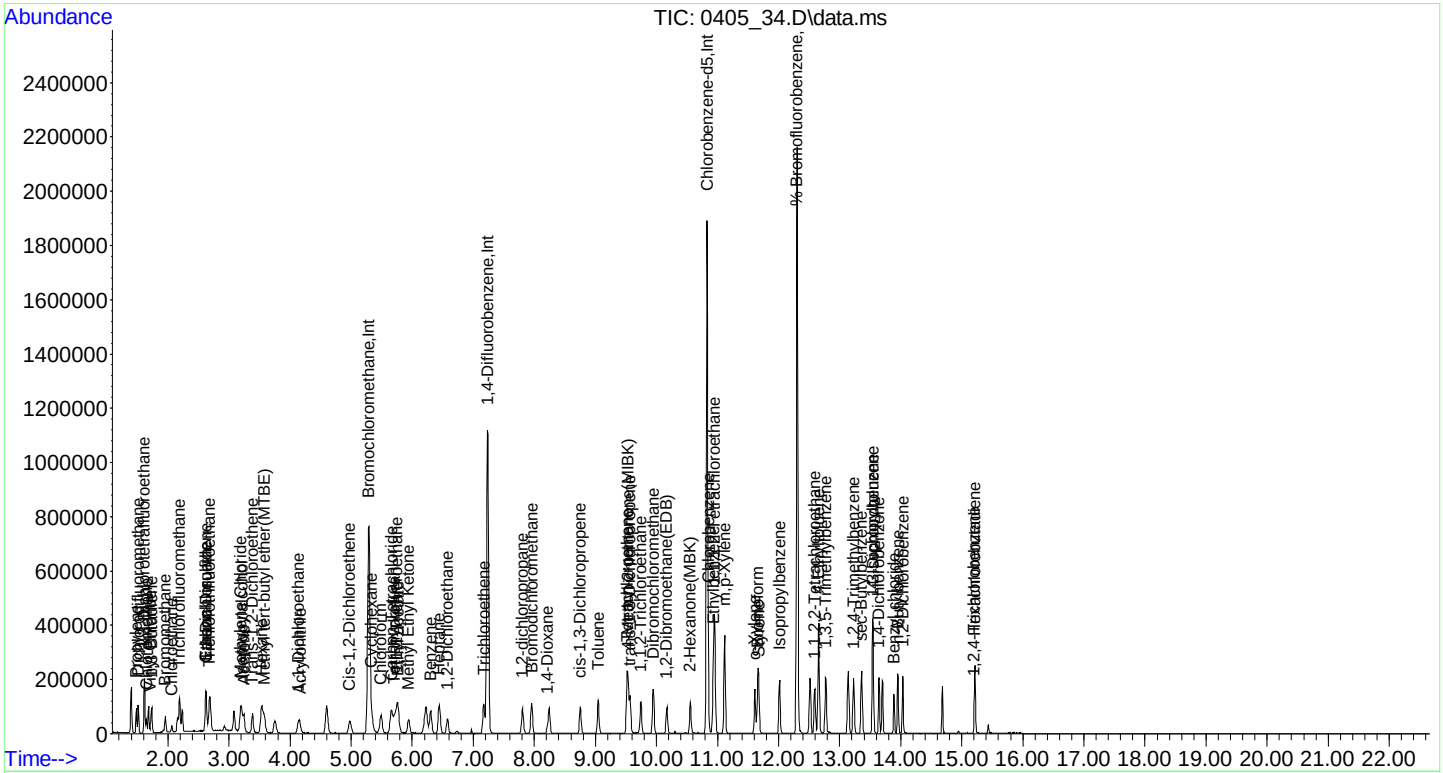
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 120] n-Butylbenzene(sim) | 13.954 | 91 | 98093 | 1.213 | ppbv | 98 |
| 121] 1,2,4-Trichlorobenzene... | 15.202 | 180 | 12795 | 1.174 | ppbv | 91 |
| 122] Hexachlorobutadiene(sim) | 15.220 | 225 | 27270 | 0.876 | ppbv | 100 |

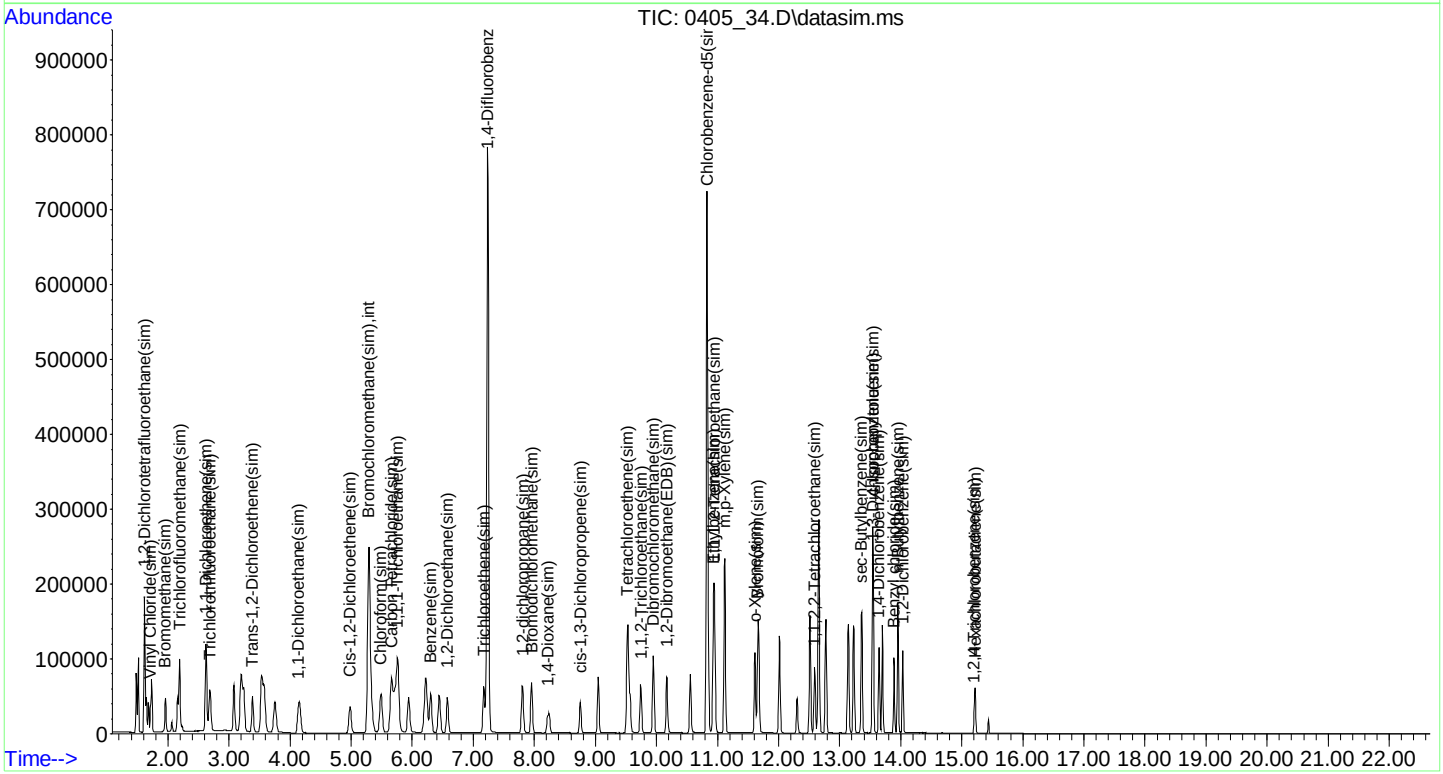
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2021\CHEM24\04APR\05\
Data File : 0405_34.D
Acq On : 6 Apr 2021 10:58 am
Operator : Keith
Client ID : BFB TUNE - CCAL 1
Lab ID : 1ppb cc - 1ppb cc
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Apr 06 21:36:33 2021
Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 12 10:34:44 2021
Response via : Initial Calibration



1

AIR ANALYSIS DATA SHEET

CLIENT ID: CH91147 LCS

Client: GC-ENV Lab: Phoenix Env. Labs

SDG No.: GCH92051 Lab Sample ID: CH91147 LCS

Canister: LCS Lab File ID: 0405_36.D

Instrument: CHEM24 Column: RTX-VMS Date Received: 04/02/21

Purge Volume 200 (cc) Date Analyzed: 04/06/21

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

| CAS NO. | COMPOUND | CONC. | Q | MDL | PQL | R |
|---|---|---|---|---|---|---|
| 115-07-1 | Propylene | 11.0 | | 0.581 | 0.581 | r |
| 75-71-8 | Dichlorodifluoromethane | 8.93 | | 0.202 | 0.202 | r |
| 74-87-3 | Chloromethane | 12.9 | | 0.485 | 0.485 | r |
| 76-14-2 | 1,2-Dichlorotetrafluoroethane | 10.3 | | 0.143 | 0.143 | r |
| 75-01-4 | Vinyl Chloride | 11.4 | | 0.078 | 0.078 | r |
| 106-99-0 | 1,3-Butadiene | 11.5 | | 0.452 | 0.452 | r |
| 74-83-9 | Bromomethane | 10.5 | | 0.258 | 0.258 | r |
| 75-00-3 | Chloroethane | 11.3 | | 0.379 | 0.379 | r |
| 64-17-5 | Ethanol | 5.90 | | 0.531 | 0.531 | r |
| 67-64-1 | Acetone | 9.76 | | 0.421 | 0.421 | r |
| 75-69-4 | Trichlorofluoromethane | 10.9 | | 0.178 | 0.178 | r |
| 67-63-0 | Isopropylalcohol | 7.11 | | 0.407 | 0.407 | r |
| 107-13-1 | Acrylonitrile | 11.8 | | 0.461 | 0.461 | r |
| 75-35-4 | 1,1-Dichloroethene | 11.3 | | 0.051 | 0.051 | r |
| 75-09-2 | Methylene Chloride | 9.91 | | 0.864 | 0.864 | r |
| 75-15-0 | Carbon Disulfide | 10.7 | | 0.321 | 0.321 | r |
| 76-13-1 | Trichlorotrifluoroethane | 10.6 | | 0.131 | 0.131 | r |
| 156-60-5 | Trans-1,2-Dichloroethene | 11.2 | | 0.252 | 0.252 | r |
| 75-34-3 | 1,1-Dichloroethane | 11.0 | | 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 | 11.6 | | 0.339 | 0.339 | r |
| 156-59-2 | Cis-1,2-Dichloroethene | 10.5 | | 0.051 | 0.051 | r |
| 110-54-3 | Hexane | 11.7 | | 0.284 | 0.284 | r |
| 67-66-3 | Chloroform | 10.8 | | 0.205 | 0.205 | r |
| 141-78-6 | Ethyl acetate | 12.9 | | 0.278 | 0.278 | r |
| 109-99-9 | Tetrahydrofuran | 11.4 | | 0.339 | 0.339 | r |
| 107-06-2 | 1,2-Dichloroethane | 11.3 | | 0.247 | 0.247 | r |
| 71-55-6 | 1,1,1-Trichloroethane | 10.9 | | 0.183 | 0.183 | r |
| 71-43-2 | Benzene | 10.9 | | 0.313 | 0.313 | r |
| 56-23-5 | Carbon Tetrachloride | 11.1 | | 0.032 | 0.032 | r |
| 110-82-7 | Cyclohexane | 11.6 | | 0.291 | 0.291 | r |
| 78-87-5 | 1,2-dichloropropane | 10.7 | | 0.217 | 0.217 | r |
| 75-27-4 | Bromodichloromethane | 10.7 | | 0.149 | 0.149 | r |
| 79-01-6 | Trichloroethene | 10.6 | | 0.037 | 0.037 | r |
| 123-91-1 | 1,4-Dioxane | 11.0 | | 0.278 | 0.278 | r |
| 142-82-5 | Heptane | 11.7 | | 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: CH91147 LCS

Client: GC-ENV Lab: Phoenix Env. Labs

SDG No.: GCH92051 Lab Sample ID: CH91147 LCS

Canister: LCS Lab File ID: 0405_36.D

Instrument: CHEM24 Column: RTX-VMS Date Received: 04/02/21

Purge Volume 200 (cc) Date Analyzed: 04/06/21

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 | 11.6 | | 0.220 | 0.220 | r |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | 12.0 | | 0.244 | 0.244 | r |
| 10061-02-6 | trans-1,3-Dichloropropene | 11.0 | | 0.220 | 0.220 | r |
| 79-00-5 | 1,1,2-Trichloroethane | 10.3 | | 0.183 | 0.183 | r |
| 108-88-3 | Toluene | 11.2 | | 0.266 | 0.266 | r |
| 124-48-1 | Dibromochloromethane | 10.4 | | 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) | 10.7 | | 0.130 | 0.130 | r |
| 127-18-4 | Tetrachloroethene | 10.1 | | 0.037 | 0.037 | r |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 10.1 | | 0.146 | 0.146 | r |
| 108-90-7 | Chlorobenzene | 10.2 | | 0.217 | 0.217 | r |
| 100-41-4 | Ethylbenzene | 10.8 | | 0.230 | 0.230 | r |
| 179601-23-1 | m,p-Xylene | 22.2 | | 0.230 | 0.230 | r |
| 75-25-2 | Bromoform | 9.27 | | 0.097 | 0.097 | r |
| 100-42-5 | Styrene | 11.4 | | 0.235 | 0.235 | r |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 9.85 | | 0.146 | 0.146 | r |
| 95-47-6 | o-Xylene | 11.3 | | 0.230 | 0.230 | r |
| 98-82-8 | Isopropylbenzene | 11.0 | | 0.204 | 0.204 | r |
| 622-96-8 | 4-Ethyltoluene | 11.3 | | 0.204 | 0.204 | r |
| 108-67-8 | 1,3,5-Trimethylbenzene | 11.4 | | 0.204 | 0.204 | r |
| 95-63-6 | 1,2,4-Trimethylbenzene | 11.5 | | 0.204 | 0.204 | r |
| 100-44-7 | Benzyl chloride | 10.1 | | 0.193 | 0.193 | r |
| 541-73-1 | 1,3-Dichlorobenzene | 10.5 | | 0.166 | 0.166 | r |
| 106-46-7 | 1,4-Dichlorobenzene | 10.7 | | 0.166 | 0.166 | r |
| 135-98-8 | sec-Butylbenzene | 10.8 | | 0.182 | 0.182 | r |
| 99-87-6 | 4-Isopropyltoluene | 11.3 | | 0.182 | 0.182 | r |
| 95-50-1 | 1,2-Dichlorobenzene | 10.1 | | 0.166 | 0.166 | r |
| 104-51-8 | n-Butylbenzene | 11.5 | | 0.182 | 0.182 | r |
| 87-68-3 | Hexachlorobutadiene | 10.0 | | 0.094 | 0.094 | r |
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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:\AIR2021\CHEM24\04APR\05\
Data File : 0405_36.D
Acq On : 6 Apr 2021 12:04 pm
Operator : Keith
Client ID : CH91147 LCS
Lab ID : CH91147 LCS
ALS Vial : 34 Sample Multiplier: 1

Quant Time: Apr 06 15:33:10 2021
Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 26 09:02:26 2021
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Bromochloromethane | 5.293 | 130 | 325733 | 10.000 | ng | 0.03 |
| 36) 1,4-Difluorobenzene | 7.238 | 114 | 1050964 | 10.000 | ng | 0.01 |
| 53) Chlorobenzene-d5 | 10.829 | 82 | 491489 | 10.000 | ng | 0.01 |
| 80) Bromochloromethane(sim) | 5.296 | 130 | 336696 | 10.000 | ng | # 0.03 |
| 95) 1,4-Difluorobenzene(sim) | 7.238 | 114 | 1050964 | 10.000 | ng | 0.01 |
| 105) Chlorobenzene-d5(sim) | 10.829 | 82 | 491489 | 10.000 | ng | 0.01 |
| System Monitoring Compounds | | | | | | |
| 62) % Bromofluorobenzene | 12.303 | 95 | 676769 | 9.928 | ppbv | 0.00 |
| Spiked Amount 10.000 | Range 70 - 130 | | Recovery = | 99.30% | | |
| Target Compounds | | | | | | Qvalue |
| 2) Propylene | 1.478 | 41 | 357104 | 11.014 | ppbv | 100 |
| 3) Dichlorodifluoromethane | 1.512 | 85 | 531182 | 8.930 | ppbv | 99 |
| 4) Chloromethane | 1.643 | 50 | 578789 | 12.867 | ppbv | 100 |
| 5) 1,2-Dichlorotetrafluor... | 1.615 | 135 | 540820 | 10.306 | ppbv | 99 |
| 6) Vinyl Chloride | 1.718 | 62 | 311183 | 11.368 | ppbv | 99 |
| 7) 1,3-Butadiene | 1.739 | 54 | 271322 | 11.506 | ppbv | 98 |
| 8) Bromomethane | 1.958 | 94 | 280401 | 10.543 | ppbv | 99 |
| 9) Chloroethane | 2.067 | 64 | 122406 | 11.343 | ppbv | 97 |
| 10) Ethanol | 2.608 | 45 | 85407 | 5.901 | ppbv | 92 |
| 12) Acetone | 3.238 | 43 | 816817 | 9.755 | ppbv | 99 |
| 13) Trichlorofluoromethane | 2.191 | 101 | 909935 | 10.896 | ppbv | 100 |
| 14) Isopropylalcohol | 3.197 | 45 | 528158 | 7.113 | ppbv# | 53 |
| 15) Acrylonitrile | 4.162 | 53 | 260881 | 11.760 | ppbv | 99 |
| 16) 1,1-Dichloroethene | 2.622 | 61 | 567308 | 11.307 | ppbv | 98 |
| 17) Methylene Chloride | 3.190 | 49 | 513347 | 9.912 | ppbv | 98 |
| 20) Carbon Disulfide | 2.629 | 76 | 686595 | 10.681 | ppbv | 100 |
| 21) Trichlorotrifluoroethane | 2.684 | 101 | 624238 | 10.595 | ppbv | 98 |
| 22) Trans-1,2-Dichloroethene | 3.388 | 61 | 491834 | 11.234 | ppbv | 96 |
| 23) 1,1-Dichloroethane | 4.141 | 63 | 572371 | 11.033 | ppbv | 100 |
| 24) Methyl tert-butyl ethe... | 3.566 | 73 | 672426 | 11.265 | ppbv | 95 |
| 25) Methyl Ethyl Ketone | 5.935 | 43 | 1003694 | 11.625 | ppbv | 99 |
| 26) Cis-1,2-Dichloroethene | 4.982 | 61 | 490805 | 10.460 | ppbv | 98 |
| 27) Hexane | 3.539 | 57 | 681715 | 11.726 | ppbv | 95 |
| 28) Chloroform | 5.495 | 83 | 670672 | 10.830 | ppbv | 98 |
| 29) Ethyl acetate | 5.762 | 43 | 1346767 | 12.881 | ppbv | 100 |
| 30) Tetrahydrofuran | 5.690 | 41 | 326381 | 11.432 | ppbv | 94 |
| 31) 1,2-Dichloroethane | 6.581 | 62 | 553850 | 11.316 | ppbv | 99 |
| 32) 1,1,1-Trichloroethane | 5.755 | 97 | 742447 | 10.941 | ppbv | 98 |
| 33) Benzene | 6.307 | 78 | 739092 | 10.931 | ppbv | 98 |
| 34) Carbon Tetrachloride | 5.668 | 117 | 864012 | 11.109 | ppbv | 99 |
| 35) Cyclohexane | 5.330 | 56 | 530108 | 11.616 | ppbv | 97 |
| 37) 1,2-dichloropropane | 7.807 | 63 | 353376 | 10.649 | ppbv | 95 |
| 38) Bromodichloromethane | 7.957 | 83 | 747316 | 10.652 | ppbv | 99 |
| 39) Trichloroethene | 7.177 | 130 | 448379 | 10.615 | ppbv | 99 |
| 41) 1,4-Dioxane | 8.209 | 88 | 155643 | 10.966 | ppbv | 97 |
| 43) Heptane | 6.444 | 43 | 879605 | 11.723 | ppbv | 99 |
| 44) cis-1,3-Dichloropropene | 8.757 | 75 | 507258 | 11.592 | ppbv | 100 |
| 45) 4-Methyl-2-pentanone(M... | 9.537 | 43 | 1227525 | 11.987 | ppbv | 98 |
| 46) trans-1,3-Dichloropropene | 9.573 | 75 | 482206 | 11.007 | ppbv | 99 |
| 47) 1,1,2-Trichloroethane | 9.746 | 97 | 384626 | 10.246 | ppbv | 100 |
| 48) Toluene | 9.046 | 91 | 961069 | 11.223 | ppbv | 100 |
| 49) Dibromochloromethane | 9.948 | 129 | 913992 | 10.413 | ppbv | 99 |
| 50) 2-Hexanone(MBK) | 10.555 | 43 | 1080165 | 11.461 | ppbv | 98 |
| 51) 1,2-Dibromoethane(EDB) | 10.172 | 107 | 700226 | 10.673 | ppbv | 100 |

Data Path : H:\AIR2021\CHEM24\04APR\05\
Data File : 0405_36.D
Acq On : 6 Apr 2021 12:04 pm
Operator : Keith
Client ID : CH91147 LCS
Lab ID : CH91147 LCS
ALS Vial : 34 Sample Multiplier: 1

Quant Time: Apr 06 15:33:10 2021
Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 26 09:02:26 2021
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 52) Tetrachloroethene | 9.523 | 166 | 519217 | 10.130 | ppbv | 98 |
| 54) 1,1,1,2-Tetrachloroethane | 10.953 | 131 | 560613 | 10.134 | ppbv | 100 |
| 55) Chlorobenzene | 10.850 | 112 | 857011 | 10.155 | ppbv | 100 |
| 56) Ethylbenzene | 10.932 | 91 | 1334208 | 10.820 | ppbv | 100 |
| 57) m,p-Xylene | 11.117 | 91 | 2061910 | 22.232 | ppbv | 99 |
| 58) Bromoform | 11.659 | 173 | 697756 | 9.272 | ppbv | 100 |
| 59) Styrene | 11.680 | 104 | 756954 | 11.380 | ppbv | 97 |
| 60) 1,1,2,2-Tetrachloroethane | 12.595 | 83 | 795537 | 9.846 | ppbv | 100 |
| 61) o-Xylene | 11.618 | 91 | 1045153 | 11.277 | ppbv | 99 |
| 64) Isopropylbenzene | 12.017 | 105 | 1427279 | 10.997 | ppbv | 99 |
| 66) 4-Ethyltoluene | 12.659 | 105 | 1556228 | 11.337 | ppbv | 100 |
| 67) 1,3,5-Trimethylbenzene | 12.776 | 105 | 1275425 | 11.379 | ppbv | 99 |
| 68) 1,2,4-Trimethylbenzene | 13.230 | 105 | 1227880 | 11.472 | ppbv | 99 |
| 70) Benzyl chloride | 13.892 | 91 | 764407 | 10.073 | ppbv | 99 |
| 71) 1,3-Dichlorobenzene | 13.548 | 146 | 815575 | 10.461 | ppbv | 99 |
| 72) 1,4-Dichlorobenzene | 13.646 | 146 | 781451 | 10.714 | ppbv | 99 |
| 73) sec-Butylbenzene | 13.360 | 105 | 1674155 | 10.765 | ppbv | 99 |
| 74) 4-Isopropyltoluene | 13.542 | 119 | 1401576 | 11.270 | ppbv | 99 |
| 75) 1,2-Dichlorobenzene | 14.035 | 146 | 628419 | 10.102 | ppbv | 100 |
| 76) n-Butylbenzene | 13.957 | 91 | 1096613 | 11.514 | ppbv | 100 |
| 77) 1,2,4-Trichlorobenzene | 15.207 | 180 | 246710 | 10.594 | ppbv | 97 |
| 79) Hexachlorobutadiene | 15.217 | 225 | 282488 | 9.997 | ppbv | 100 |
| 81] 1,2-Dichlorotetrafluor... | 1.615 | 135 | 540560 | 9.373 | ppbv | 99 |
| 82] Vinyl Chloride(sim) | 1.714 | 62 | 336993 | 10.941 | ppbv | 100 |
| 83] Bromomethane(sim) | 1.958 | 94 | 280223 | 9.152 | ppbv | 99 |
| 84] Trichlorofluoromethane... | 2.194 | 101 | 951725 | 9.940 | ppbv | 100 |
| 85] 1,1,1-Trichloroethane(... | 5.755 | 97 | 742613 | 10.462 | ppbv# | 98 |
| 86] Benzene(sim) | 6.310 | 78 | 802466 | 10.241 | ppbv | 98 |
| 87] Carbon Tetrachloride(sim) | 5.668 | 117 | 863954 | 10.549 | ppbv | 100 |
| 88] 1,1-Dichloroethene(sim) | 2.625 | 61 | 606015 | 10.427 | ppbv | 97 |
| 89] Trichlorotrifluoroetha... | 2.684 | 101 | 624238 | 9.828 | ppbv | 99 |
| 90] Trans-1,2-Dichloroethe... | 3.384 | 61 | 525204 | 10.478 | ppbv | 98 |
| 91] 1,1-Dichloroethane(sim) | 4.141 | 63 | 572334 | 9.923 | ppbv | 100 |
| 92] Cis-1,2-Dichloroethene... | 4.985 | 61 | 578917 | 11.379 | ppbv | 99 |
| 93] Chloroform(sim) | 5.495 | 83 | 670672 | 10.077 | ppbv | 98 |
| 94] 1,2-Dichloroethane(sim) | 6.577 | 62 | 597917 | 10.580 | ppbv | 100 |
| 96] 1,2-dichloropropane(sim) | 7.810 | 63 | 382212 | 9.975 | ppbv | 94 |
| 97] Bromodichloromethane(sim) | 7.957 | 83 | 795439 | 10.838 | ppbv | 96 |
| 98] Trichloroethene(sim) | 7.180 | 130 | 479544 | 10.161 | ppbv | 100 |
| 99] 1,4-Dioxane(sim) | 8.209 | 88 | 155643 | 10.982 | ppbv | 97 |
| 100] cis-1,3-Dichloropropen... | 8.753 | 75 | 555748 | 12.000 | ppbv | 100 |
| 101] 1,1,2-Trichloroethane(... | 9.746 | 97 | 384671 | 9.819 | ppbv | 100 |
| 102] Dibromochloromethane(sim) | 9.951 | 129 | 930493 | 10.064 | ppbv | 100 |
| 103] 1,2-Dibromoethane(EDB)... | 10.172 | 107 | 700226 | 10.496 | ppbv | 100 |
| 104] Tetrachloroethene(sim) | 9.525 | 166 | 544729 | 9.912 | ppbv | 99 |
| 106] Bromoform(sim) | 11.662 | 173 | 688590 | 8.917 | ppbv | 100 |
| 107] 1,1,1,2-Tetrachloroeth... | 10.953 | 131 | 560629 | 9.751 | ppbv | 100 |
| 108] Ethylbenzene(sim) | 10.935 | 91 | 1418352 | 10.553 | ppb | 100 |
| 109] m,p-Xylene(sim) | 11.117 | 91 | 2062529 | 22.534 | ppbv | 99 |
| 110] o-Xylene(sim) | 11.614 | 91 | 1136414 | 11.870 | ppb | 99 |
| 111] 1,1,2,2-Tetrachloroeth... | 12.595 | 83 | 795537 | 9.356 | ppbv | 100 |
| 114] Benzyl chloride(sim) | 13.895 | 91 | 810871 | 11.768 | ppbv | 99 |
| 115] 1,3-Dichlorobenzene(sim) | 13.548 | 146 | 815575 | 10.248 | ppbv | 99 |
| 116] 1,4-Dichlorobenzene(sim) | 13.649 | 146 | 876019 | 11.005 | ppbv | 100 |
| 117] sec-Butylbenzene(sim) | 13.360 | 105 | 1671934 | 11.526 | ppbv | 99 |
| 118] 4-Isopropyltoluene(sim) | 13.545 | 119 | 1535333 | 12.594 | ppbv | 99 |
| 119] 1,2-Dichlorobenzene(sim) | 14.035 | 146 | 628419 | 10.211 | ppbv | 100 |

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2021\CHEM24\04APR\05\
Data File : 0405_36.D
Acq On : 6 Apr 2021 12:04 pm
Operator : Keith
Client ID : CH91147 LCS
Lab ID : CH91147 LCS
ALS Vial : 34 Sample Multiplier: 1

Quant Time: Apr 06 15:33:10 2021
Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 26 09:02:26 2021
Response via : Initial Calibration

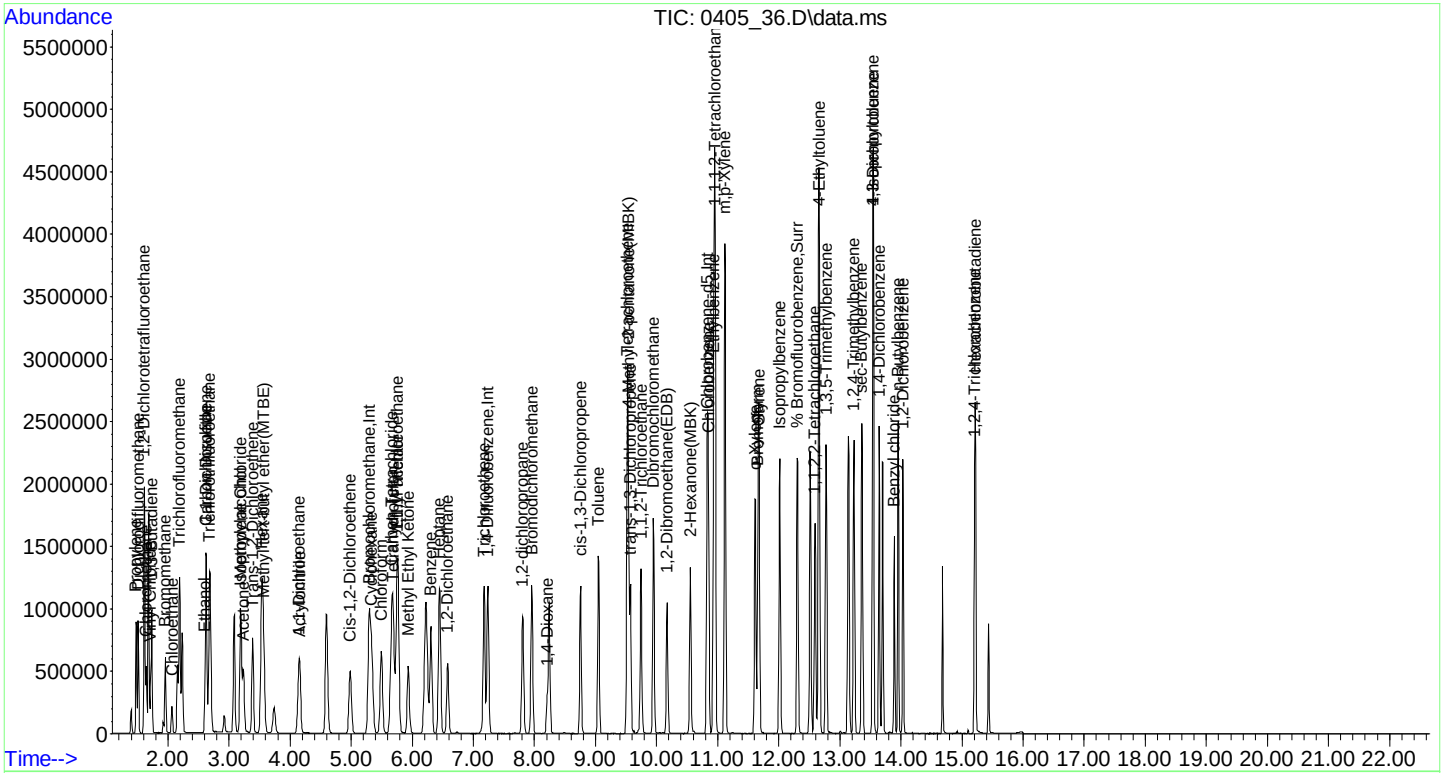
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 120] n-Butylbenzene(sim) | 13.954 | 91 | 1175447 | 13.479 | ppbv | 100 |
| 122] Hexachlorobutadiene(sim) | 15.220 | 225 | 300326 | 8.953 | ppbv | 100 |

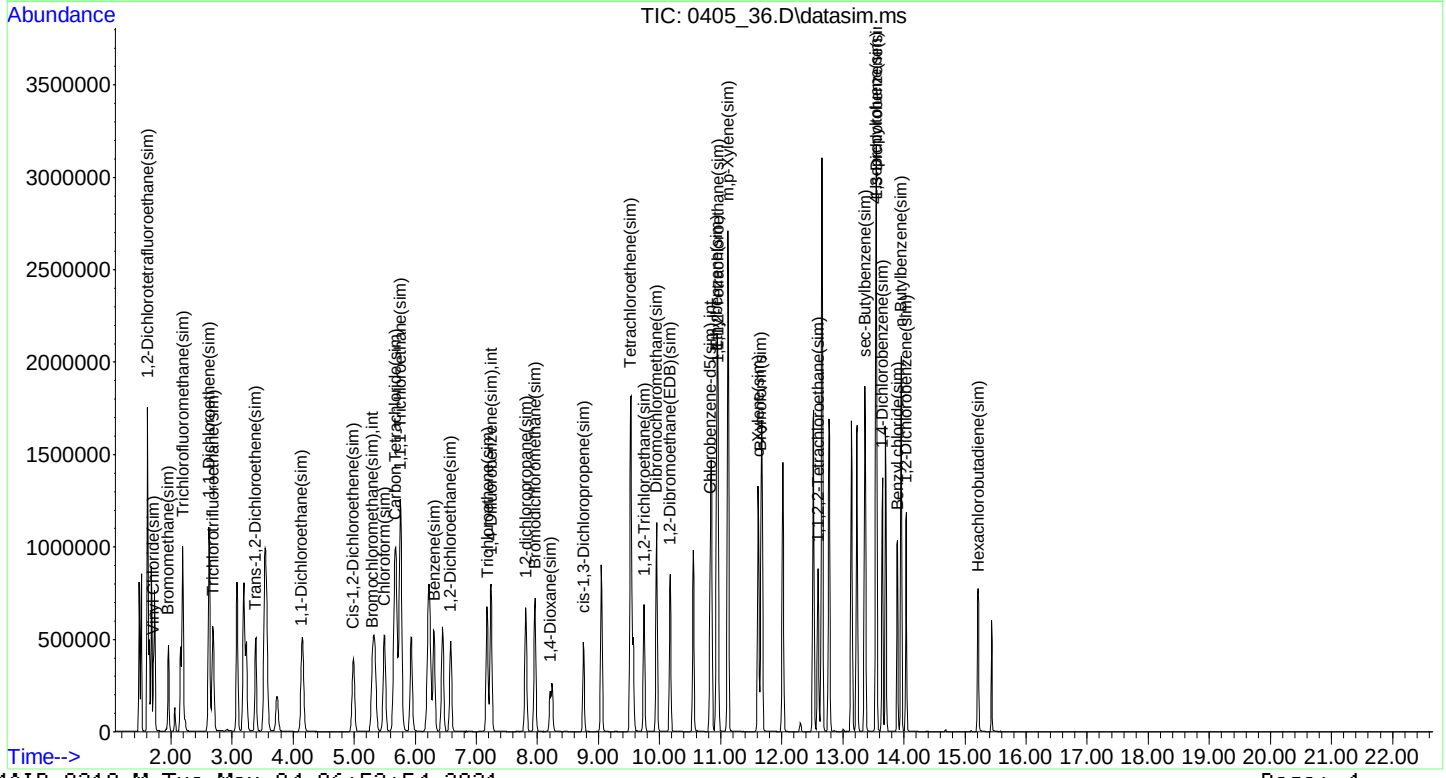
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2021\CHEM24\04APR\05\
Data File : 0405_36.D
Acq On : 6 Apr 2021 12:04 pm
Operator : Keith
Client ID : CH91147 LCS
Lab ID : CH91147 LCS
ALS Vial : 34 Sample Multiplier: 1

Quant Time: Apr 06 15:33:10 2021
Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 26 09:02:26 2021
Response via : Initial Calibration



1

AIR ANALYSIS DATA SHEET

CLIENT ID: CH91147 QC

Client: GC-ENV Lab: Phoenix Env. Labs

SDG No.: GCH92051 Lab Sample ID: CH91147

Canister: 11287 Lab File ID: 0405_39.D

Instrument: CHEM24 Column: RTX-VMS Date Received: 04/02/21

Purge Volume 200 (cc) Date Analyzed: 04/06/21

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

| CAS NO. | COMPOUND | CONC. | Q | MDL | PQL | R |
|---|---|---|---|---|---|---|
| 115-07-1 | Propylene | 0.500 | U | 0.500 | 0.500 | r |
| 75-71-8 | Dichlorodifluoromethane | 1.62 | | 0.500 | 0.500 | r |
| 74-87-3 | Chloromethane | 0.500 | U | 0.500 | 0.500 | r |
| 106-99-0 | 1,3-Butadiene | 0.500 | U | 0.500 | 0.500 | r |
| 75-00-3 | Chloroethane | 0.500 | U | 0.500 | 0.500 | r |
| 64-17-5 | Ethanol | 282 | S | 0.531 | 0.531 | |
| 67-64-1 | Acetone | 13.7 | S | 0.500 | 0.500 | r |
| 75-69-4 | Trichlorofluoromethane | 18.0 | | 0.500 | 0.500 | r |
| 67-63-0 | Isopropylalcohol | 5.22 | S | 0.500 | 0.500 | r |
| 107-13-1 | Acrylonitrile | 0.500 | U | 0.500 | 0.500 | r |
| 75-35-4 | 1,1-Dichloroethene | 0.500 | U | 0.500 | 0.500 | r |
| 75-09-2 | Methylene Chloride | 0.500 | U | 0.500 | 0.500 | r |
| 75-15-0 | Carbon Disulfide | 2.88 | | 0.500 | 0.500 | r |
| 156-60-5 | Trans-1,2-Dichloroethene | 0.500 | U | 0.500 | 0.500 | r |
| 1634-04-4 | Methyl tert-butyl ether(MTBE) | 0.500 | U | 0.500 | 0.500 | r |
| 78-93-3 | Methyl Ethyl Ketone | 1.67 | | 0.500 | 0.500 | r |
| 156-59-2 | Cis-1,2-Dichloroethene | 1.22 | | 0.500 | 0.500 | r |
| 110-54-3 | Hexane | 0.534 | S | 0.500 | 0.500 | r |
| 67-66-3 | Chloroform | 0.792 | | 0.500 | 0.500 | r |
| 141-78-6 | Ethyl acetate | 0.500 | U | 0.500 | 0.500 | r |
| 109-99-9 | Tetrahydrofuran | 0.500 | U | 0.500 | 0.500 | r |
| 71-55-6 | 1,1,1-Trichloroethane | 20.7 | | 0.500 | 0.500 | r |
| 110-82-7 | Cyclohexane | 1.33 | | 0.500 | 0.500 | r |
| 79-01-6 | Trichloroethene | 8.81 | | 0.200 | 0.200 | r |
| 142-82-5 | Heptane | 2.57 | | 0.500 | 0.500 | r |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | 0.500 | U | 0.500 | 0.500 | r |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.500 | U | 0.500 | 0.500 | r |
| 108-88-3 | Toluene | 6.58 | | 0.500 | 0.500 | r |
| 591-78-6 | 2-Hexanone(MBK) | 0.500 | U | 0.500 | 0.500 | r |
| 127-18-4 | Tetrachloroethene | 171 | | 0.037 | 0.037 | |
| 108-90-7 | Chlorobenzene | 0.500 | U | 0.500 | 0.500 | r |
| 100-41-4 | Ethylbenzene | 0.906 | | 0.500 | 0.500 | r |
| 179601-23-1 | m,p-Xylene | 3.34 | | 1.00 | 1.00 | r |
| 100-42-5 | Styrene | 0.500 | U | 0.500 | 0.500 | r |
| 95-47-6 | o-Xylene | 1.35 | | 0.500 | 0.500 | r |
| 98-82-8 | Isopropylbenzene | 0.500 | U | 0.500 | 0.500 | r |

FORM I AIR

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

AIR ANALYSIS DATA SHEET

CLIENT ID: CH91147 QC

Client: GC-ENV Lab: Phoenix Env. Labs

SDG No.: GCH92051 Lab Sample ID: CH91147

Canister: 11287 Lab File ID: 0405_39.D

Instrument: CHEM24 Column: RTX-VMS Date Received: 04/02/21

Purge Volume 200 (cc) Date Analyzed: 04/06/21

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

| CAS NO. | COMPOUND | CONC. | Q | MDL | PQL | R |
|---|---|---|---|---|---|---|
| 622-96-8 | 4-Ethyltoluene | 0.500 | U | 0.500 | 0.500 | r |
| 108-67-8 | 1,3,5-Trimethylbenzene | 0.500 | U | 0.500 | 0.500 | r |
| 95-63-6 | 1,2,4-Trimethylbenzene | 0.500 | U | 0.500 | 0.500 | r |
| 76-14-2 | 1,2-Dichlorotetrafluoroethane(sim) | 0.500 | U | 0.500 | 0.500 | r |
| 75-01-4 | Vinyl Chloride(sim) | 0.500 | U | 0.500 | 0.500 | r |
| 74-83-9 | Bromomethane(sim) | 0.500 | U | 0.500 | 0.500 | r |
| 71-43-2 | Benzene(sim) | 0.500 | U | 0.500 | 0.500 | r |
| 56-23-5 | Carbon Tetrachloride(sim) | 0.500 | U | 0.500 | 0.500 | r |
| 76-13-1 | Trichlorotrifluoroethane(sim) | 0.500 | U | 0.500 | 0.500 | r |
| 75-34-3 | 1,1-Dichloroethane(sim) | 0.500 | U | 0.500 | 0.500 | r |
| 107-06-2 | 1,2-Dichloroethane(sim) | 0.500 | U | 0.500 | 0.500 | r |
| 78-87-5 | 1,2-dichloropropane(sim) | 0.500 | U | 0.500 | 0.500 | r |
| 75-27-4 | Bromodichloromethane(sim) | 0.400 | U | 0.400 | 0.400 | r |
| 123-91-1 | 1,4-Dioxane(sim) | 0.500 | U | 0.500 | 0.500 | r |
| 10061-01-5 | cis-1,3-Dichloropropene(sim) | 0.500 | U | 0.500 | 0.500 | r |
| 79-00-5 | 1,1,2-Trichloroethane(sim) | 0.500 | U | 0.500 | 0.500 | r |
| 124-48-1 | Dibromochloromethane(sim) | 0.500 | U | 0.500 | 0.500 | r |
| 106-93-4 | 1,2-Dibromoethane(EDB)(sim) | 0.500 | U | 0.500 | 0.500 | r |
| 75-25-2 | Bromoform(sim) | 0.500 | U | 0.500 | 0.500 | r |
| 630-20-6 | 1,1,1,2-Tetrachloroethane(sim) | 0.500 | U | 0.500 | 0.500 | r |
| 79-34-5 | 1,1,2,2-Tetrachloroethane(sim) | 0.500 | U | 0.500 | 0.500 | r |
| 100-44-7 | Benzyl chloride(sim) | 0.500 | U | 0.500 | 0.500 | r |
| 541-73-1 | 1,3-Dichlorobenzene(sim) | 0.500 | U | 0.500 | 0.500 | r |
| 106-46-7 | 1,4-Dichlorobenzene(sim) | 0.500 | U | 0.500 | 0.500 | r |
| 135-98-8 | sec-Butylbenzene(sim) | 0.500 | U | 0.500 | 0.500 | r |
| 99-87-6 | 4-Isopropyltoluene(sim) | 0.500 | U | 0.500 | 0.500 | r |
| 95-50-1 | 1,2-Dichlorobenzene(sim) | 0.500 | U | 0.500 | 0.500 | r |
| 104-51-8 | n-Butylbenzene(sim) | 0.500 | U | 0.500 | 0.500 | r |
| 120-82-1 | 1,2,4-Trichlorobenzene(sim) | 0.500 | U | 0.500 | 0.500 | r |
| 87-68-3 | Hexachlorobutadiene(sim) | 0.500 | U | 0.500 | 0.500 | 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:\AIR2021\CHEM24\04APR\05\
Data File : 0405_39.D
Acq On : 6 Apr 2021 1:39 pm
Operator : Keith
Client ID : CH91147 QC
Lab ID : CH91147 QC
ALS Vial : 37 Sample Multiplier: 1

Quant Time: Apr 06 15:37:32 2021
Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 26 09:02:26 2021
Response via : Initial Calibration

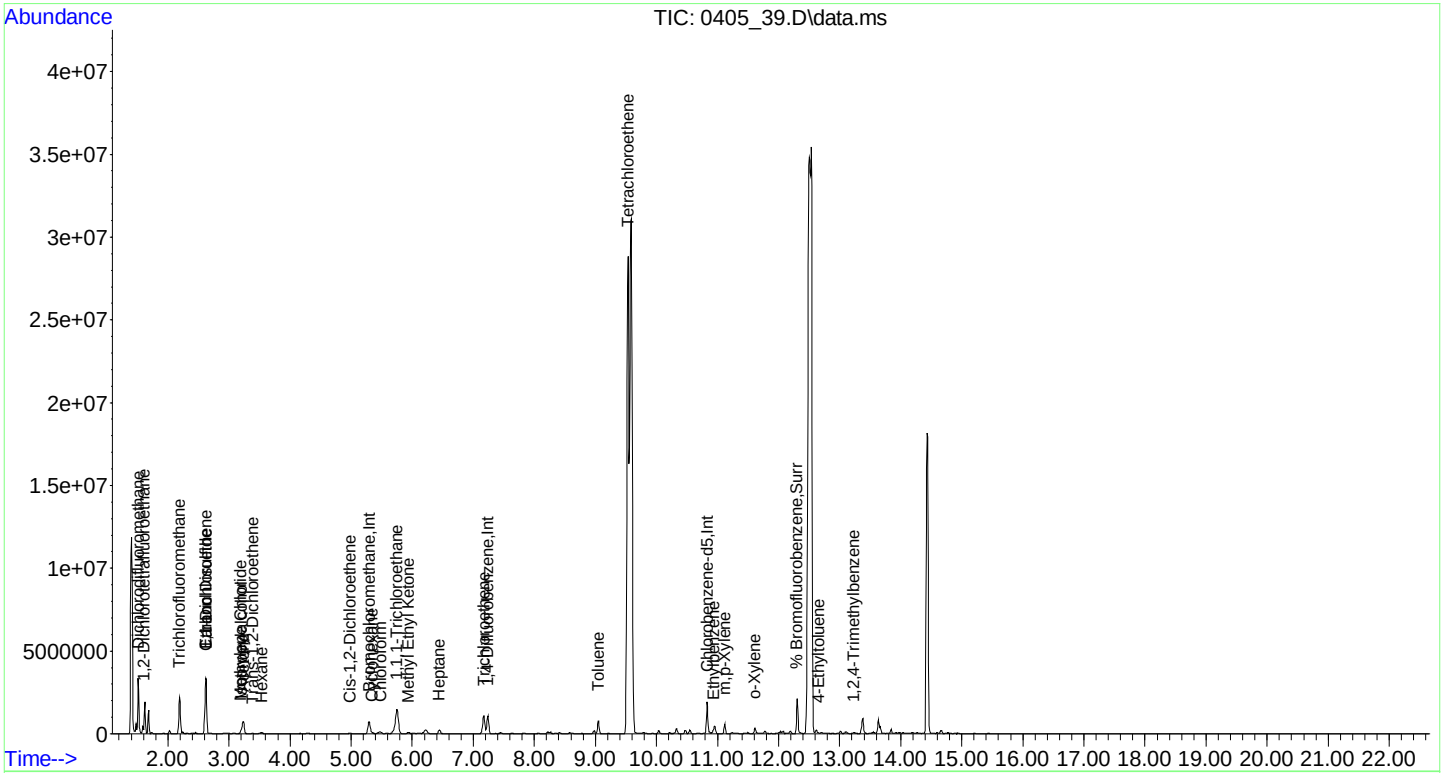
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Bromochloromethane | 5.294 | 130 | 300750 | 10.000 | ng | 0.03 |
| 36) 1,4-Difluorobenzene | 7.238 | 114 | 949185 | 10.000 | ng | 0.01 |
| 53) Chlorobenzene-d5 | 10.829 | 82 | 464459 | 10.000 | ng | 0.01 |
| 80) Bromochloromethane(sim) | 5.296 | 130 | 312885 | 10.000 | ng | # 0.03 |
| 95) 1,4-Difluorobenzene(sim) | 7.238 | 114 | 949185 | 10.000 | ng | 0.01 |
| 105) Chlorobenzene-d5(sim) | 10.829 | 82 | 464459 | 10.000 | ng | 0.01 |
| System Monitoring Compounds | | | | | | |
| 62) % Bromofluorobenzene | 12.303 | 95 | 642251 | 9.970 | ppbv | 0.00 |
| Spiked Amount 10.000 | Range 70 - 130 | | Recovery = | 99.70% | | |
| Target Compounds | | | | | | Qvalue |
| 3) Dichlorodifluoromethane | 1.513 | 85 | 88994 | 1.620 | ppbv | 99 |
| 5) 1,2-Dichlorotetrafluor... | 1.615 | 135 | 9607 | 0.198 | ppbv | 94 |
| 10) Ethanol | 2.622 | 45 | 3763061 | 281.612 | ppbv | 96 |
| 12) Acetone | 3.238 | 43 | 1061382 | 13.728 | ppbv | 98 |
| 13) Trichlorofluoromethane | 2.191 | 101 | 1388367 | 18.005 | ppbv | 100 |
| 14) Isopropylalcohol | 3.203 | 45 | 358117 | 5.223 | ppbv# | 1 |
| 16) 1,1-Dichloroethene | 2.622 | 61 | 14985 | 0.323 | ppbv | 96 |
| 17) Methylene Chloride | 3.190 | 49 | 17116 | 0.358 | ppbv | 97 |
| 20) Carbon Disulfide | 2.629 | 76 | 170868 | 2.879 | ppbv | 99 |
| 22) Trans-1,2-Dichloroethene | 3.388 | 61 | 16442 | 0.407 | ppbv | 99 |
| 25) Methyl Ethyl Ketone | 5.942 | 43 | 133159 | 1.670 | ppbv | 98 |
| 26) Cis-1,2-Dichloroethene | 4.987 | 61 | 52858 | 1.220 | ppbv | 99 |
| 27) Hexane | 3.539 | 57 | 28669 | 0.534 | ppbv# | 76 |
| 28) Chloroform | 5.488 | 83 | 45269 | 0.792 | ppbv# | 62 |
| 32) 1,1,1-Trichloroethane | 5.748 | 97 | 1299205 | 20.737 | ppbv | 94 |
| 35) Cyclohexane | 5.337 | 56 | 55918 | 1.327 | ppbv | 92 |
| 39) Trichloroethene | 7.177 | 130 | 336057 | 8.809 | ppbv | 99 |
| 43) Heptane | 6.444 | 43 | 174381 | 2.573 | ppbv | 98 |
| 48) Toluene | 9.046 | 91 | 508675 | 6.577 | ppbv | 99 |
| 52) Tetrachloroethene | 9.537 | 166 | 7910213 | 170.873 | ppbv | 97 |
| 56) Ethylbenzene | 10.932 | 91 | 105536 | 0.906 | ppbv | 98 |
| 57) m,p-Xylene | 11.117 | 91 | 293038 | 3.343 | ppbv | 98 |
| 61) o-Xylene | 11.611 | 91 | 117968 | 1.347 | ppbv | 98 |
| 66) 4-Ethyltoluene | 12.653 | 105 | 34508 | 0.266 | ppbv | 98 |
| 68) 1,2,4-Trimethylbenzene | 13.237 | 105 | 28244 | 0.279 | ppbv# | 95 |
| 84] Trichlorofluoromethane... | 2.194 | 101 | 1451755 | 16.317 | ppbv | 100 |
| 85] 1,1,1-Trichloroethane(... | 5.748 | 97 | 1299911 | 19.708 | ppbv# | 94 |
| 92] Cis-1,2-Dichloroethene... | 4.985 | 61 | 60115 | 1.272 | ppbv | 98 |
| 93] Chloroform(sim) | 5.488 | 83 | 45269 | 0.732 | ppbv# | 62 |
| 98] Trichloroethene(sim) | 7.180 | 130 | 357041 | 8.376 | ppbv | 100 |
| 104] Tetrachloroethene(sim) | 9.533 | 166 | 8094970 | 163.084 | ppbv | 97 |
| 108] Ethylbenzene(sim) | 10.935 | 91 | 112982 | 0.890 | ppb | 99 |
| 109] m,p-Xylene(sim) | 11.117 | 91 | 293399 | 3.392 | ppbv | 98 |
| 110] o-Xylene(sim) | 11.614 | 91 | 123604 | 1.366 | ppb | 99 |

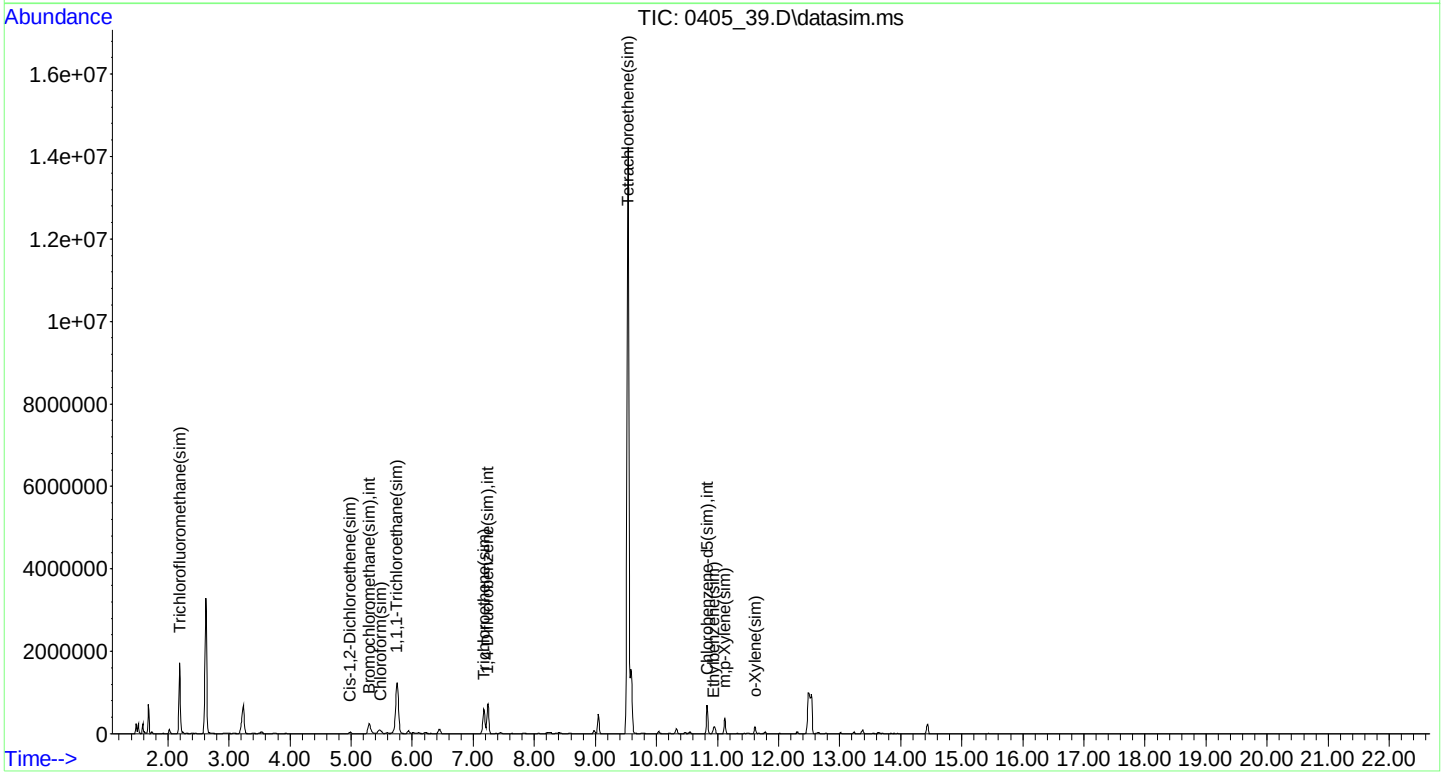
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

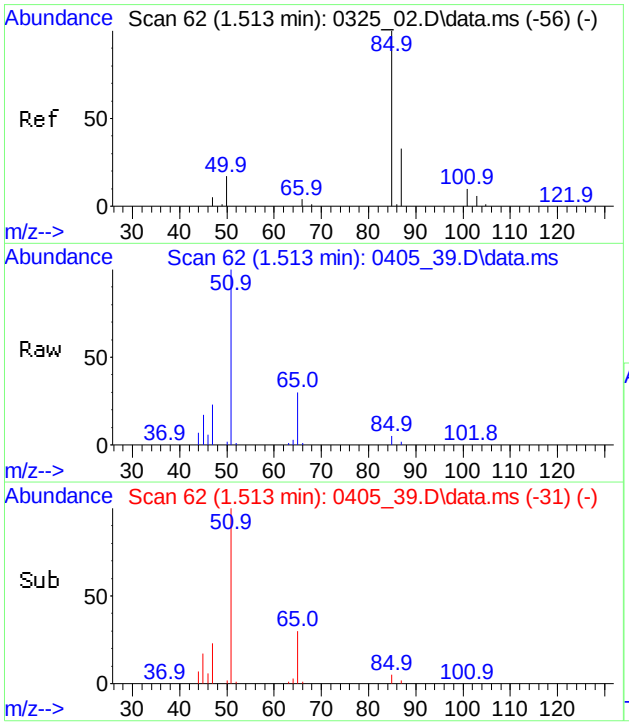
Quantitation Report (QT Reviewed)

Data Path : H:\AIR2021\CHEM24\04APR\05\
Data File : 0405_39.D
Acq On : 6 Apr 2021 1:39 pm
Operator : Keith
Client ID : CH91147 QC
Lab ID : CH91147 QC
ALS Vial : 37 Sample Multiplier: 1

Quant Time: Apr 06 15:37:32 2021
Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 26 09:02:26 2021
Response via : Initial Calibration



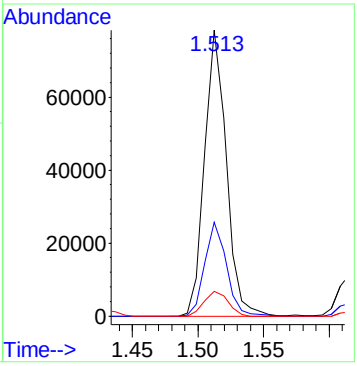



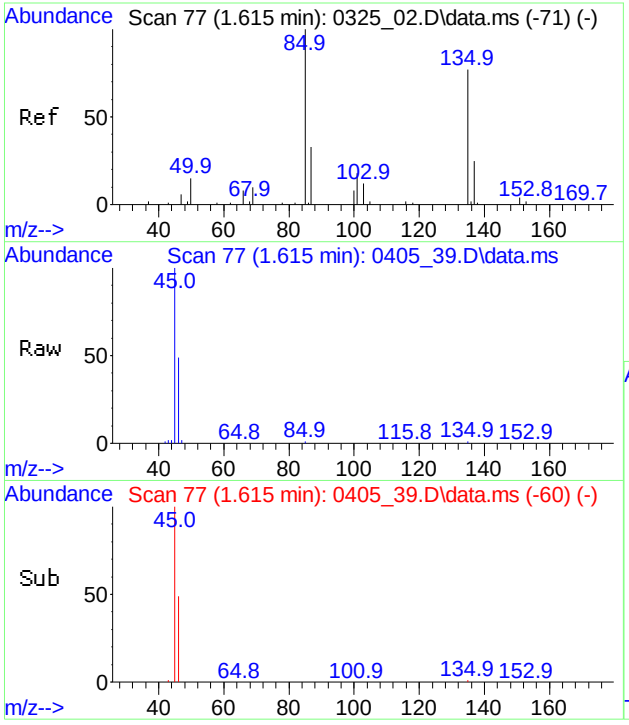



#3
Dichlorodifluoromethane
Conc: 8$ 1.620 ppbv
RT: 1.513 min Scan# 62
Delta R.T. 0.014 min
Lab File: 0405_39.D
Acq: 6 Apr 2021 1:39 pm

Tgt Ion: 85 Resp: 88994

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 32.8 | 26.6 | 40.0 |
| 101 | 9.5 | 7.9 | 11.9 |

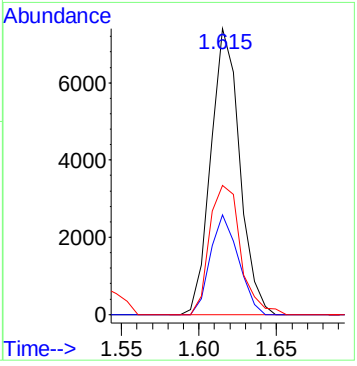


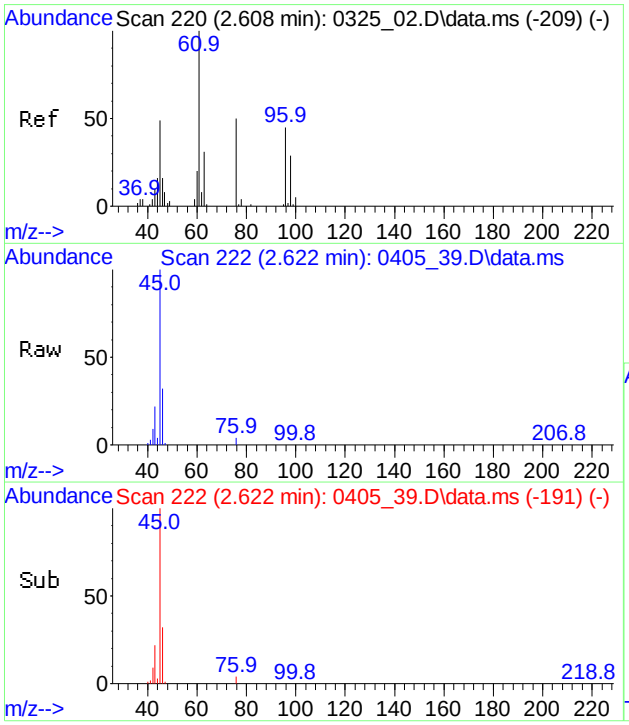




#5
1,2-Dichlorotetrafluoroethane
Conc: 8$ 0.198 ppbv
RT: 1.615 min Scan# 77
Delta R.T. 0.014 min
Lab File: 0405_39.D
Acq: 6 Apr 2021 1:39 pm

Tgt Ion:135 Resp: 9607

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 135 | 100 | | |
| 137 | 33.8 | 25.8 | 38.8 |
| 87 | 48.8 | 34.8 | 52.2 |

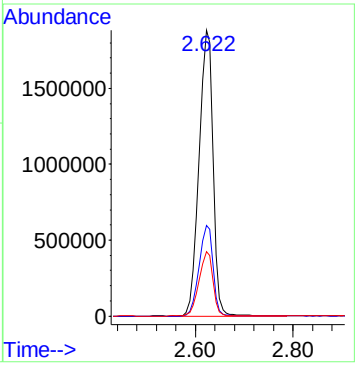


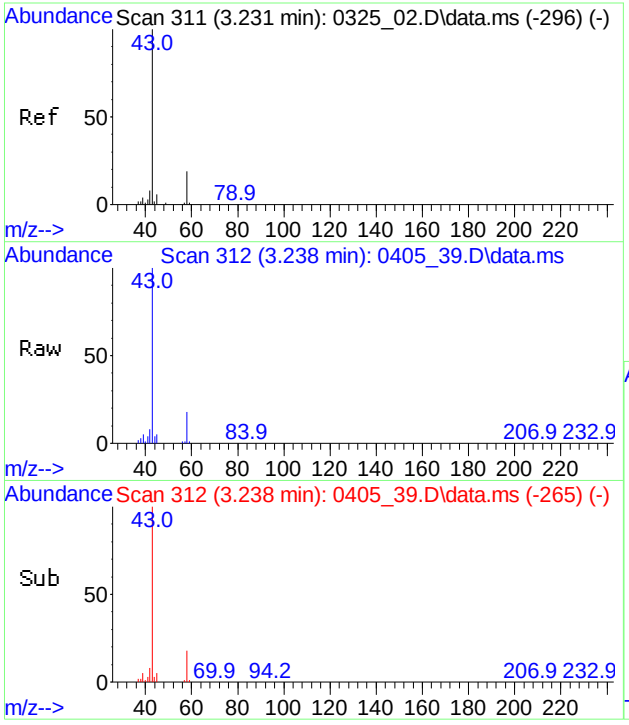



#10
Ethanol
Conc: 8$ 281.612 ppbv
RT: 2.622 min Scan# 222
Delta R.T. 0.027 min
Lab File: 0405_39.D
Acq: 6 Apr 2021 1:39 pm

Tgt Ion: 45 Resp: 3763061

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 31.5 | 27.8 | 41.6 |
| 43 | 22.5 | 17.3 | 25.9 |

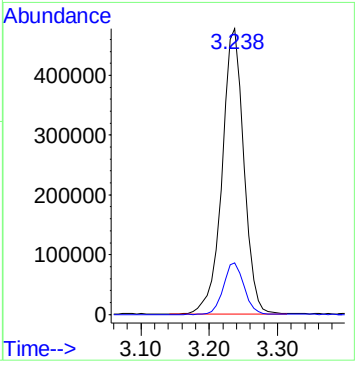


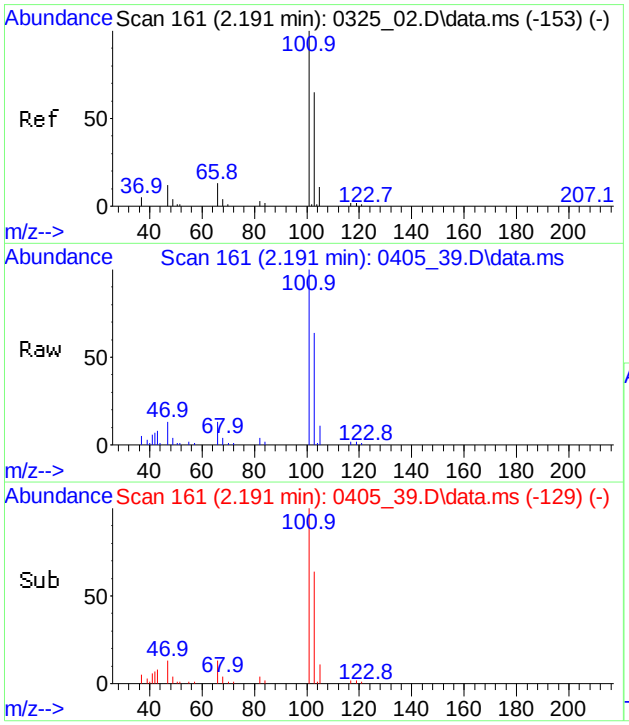




#12
Acetone
Conc: 8$ 13.728 ppbv
RT: 3.238 min Scan# 312
Delta R.T. 0.021 min
Lab File: 0405_39.D
Acq: 6 Apr 2021 1:39 pm

Tgt Ion: 43 Resp: 1061382

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 17.2 | 13.2 | 19.8 |

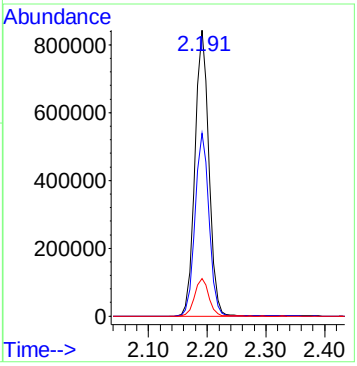


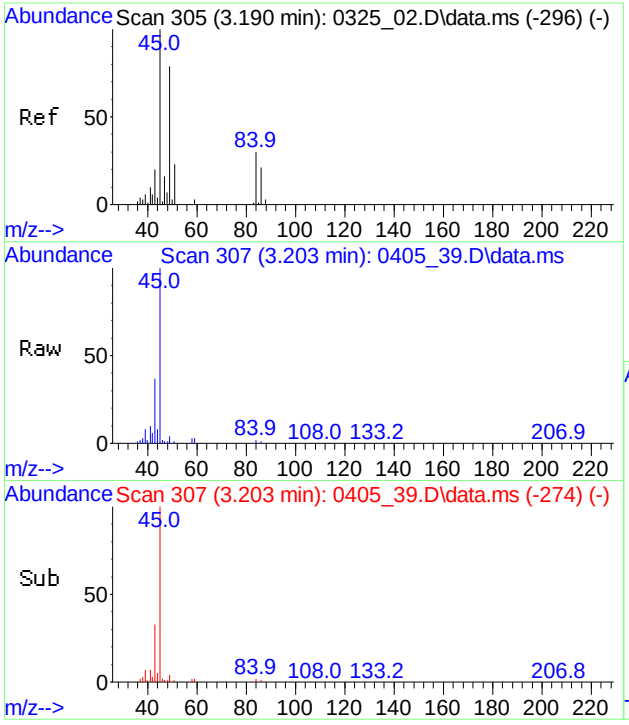



#13
Trichlorofluoromethane
Conc: 8$ 18.005 ppbv
RT: 2.191 min Scan# 161
Delta R.T. 0.021 min
Lab File: 0405_39.D
Acq: 6 Apr 2021 1:39 pm

Tgt Ion:101 Resp: 1388367

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 64.1 | 51.5 | 77.3 |
| 66 | 13.3 | 10.6 | 15.8 |

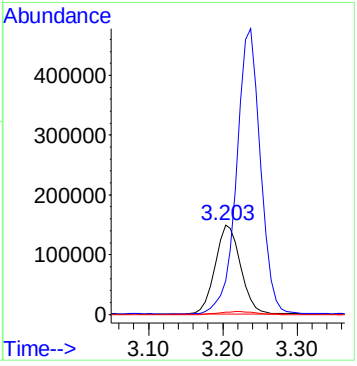


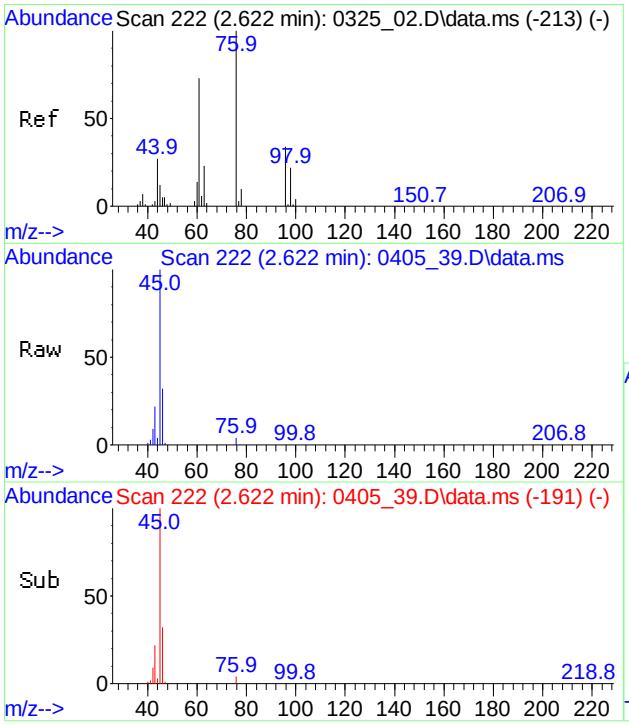




#14
Isopropylalcohol
Conc: 8$ 5.223 ppbv
RT: 3.203 min Scan# 307
Delta R.T. 0.027 min
Lab File: 0405_39.D
Acq: 6 Apr 2021 1:39 pm

Tgt Ion: 45 Resp: 358117

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 296.4 | 84.1 | 126.1# |
| 59 | 4.4 | 2.6 | 4.0# |

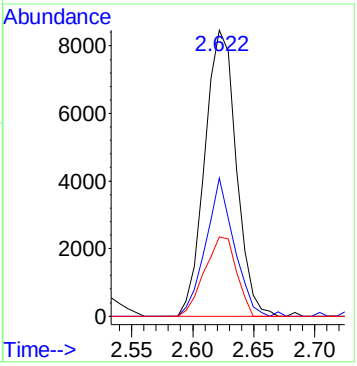


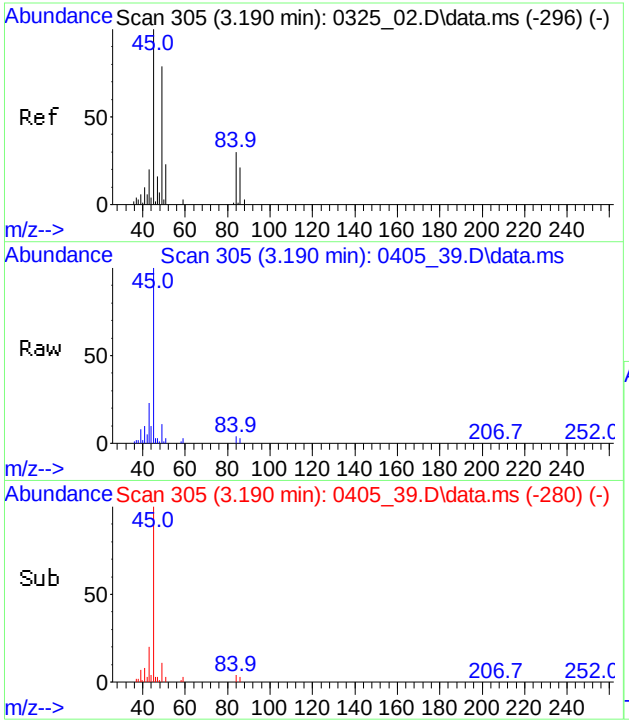



#16
1,1-Dichloroethene
Conc: 8$ 0.323 ppbv
RT: 2.622 min Scan# 222
Delta R.T. 0.021 min
Lab File: 0405_39.D
Acq: 6 Apr 2021 1:39 pm

Tgt Ion: 61 Resp: 14985

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 61 | 100 | | |
| 96 | 43.3 | 37.2 | 55.8 |
| 98 | 28.0 | 24.0 | 36.0 |

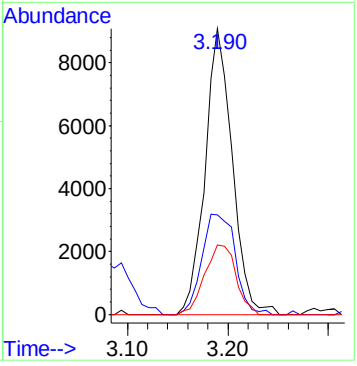


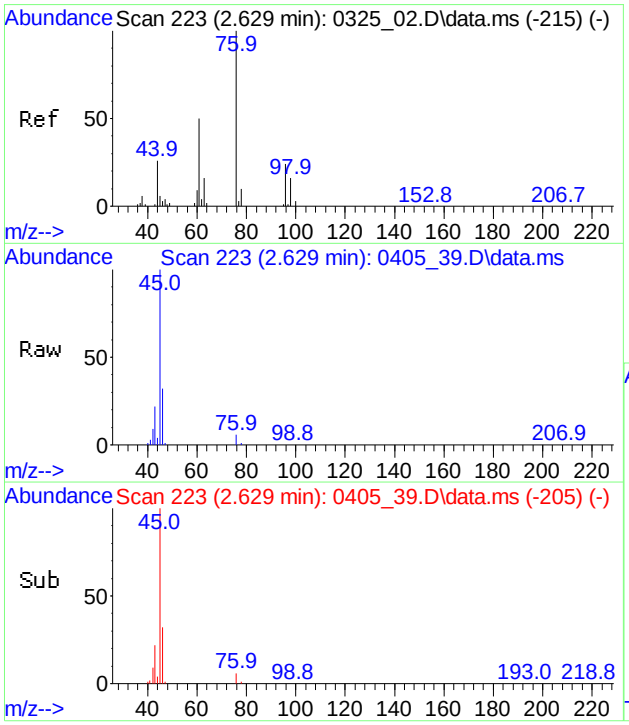




#17
Methylene Chloride
Conc: 8$ 0.358 ppbv
RT: 3.190 min Scan# 305
Delta R.T. 0.021 min
Lab File: 0405_39.D
Acq: 6 Apr 2021 1:39 pm

Tgt Ion: 49 Resp: 17116

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 84 | 42.8 | 32.4 | 48.6 |
| 86 | 27.8 | 21.0 | 31.6 |

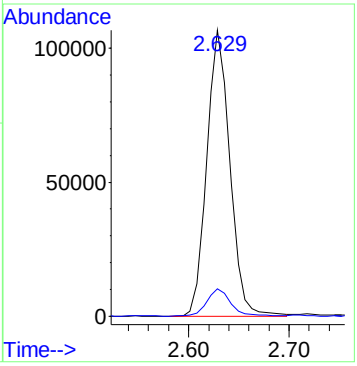


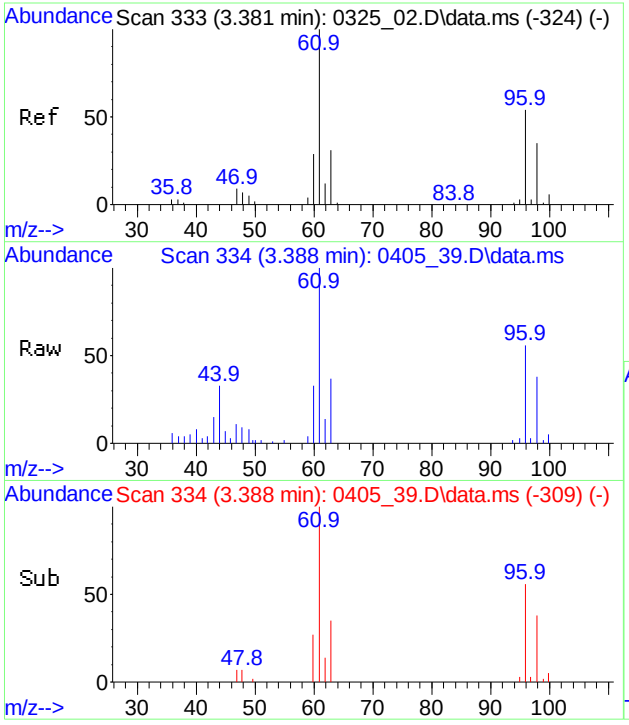



#20
Carbon Disulfide
Conc: 8$ 2.879 ppbv
RT: 2.629 min Scan# 223
Delta R.T. 0.021 min
Lab File: 0405_39.D
Acq: 6 Apr 2021 1:39 pm

Tgt Ion: 76 Resp: 170868

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 9.8 | 7.7 | 11.5 |

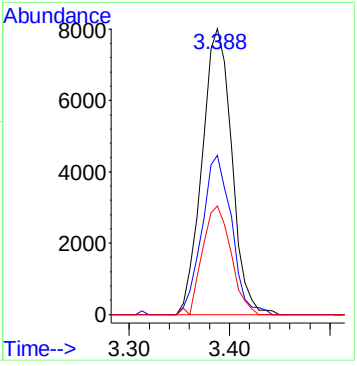


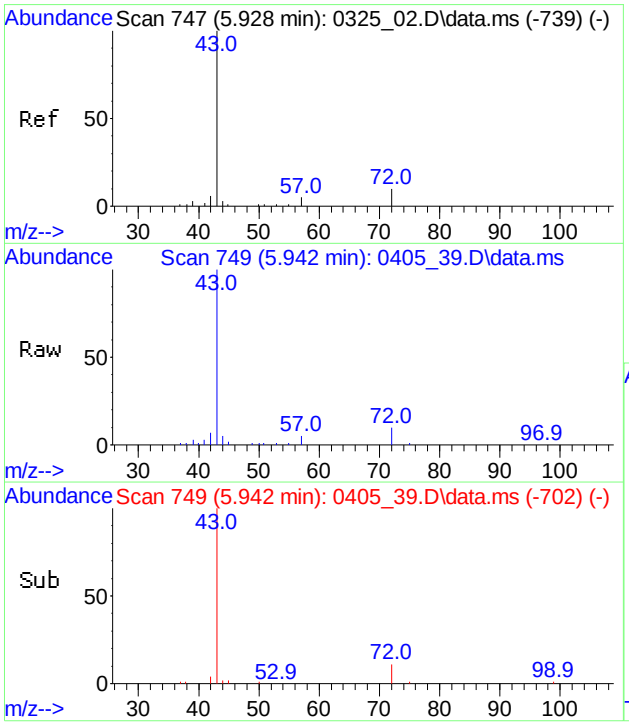




#22
Trans-1,2-Dichloroethene
Conc: 8$ 0.407 ppbv
RT: 3.388 min Scan# 334
Delta R.T. 0.020 min
Lab File: 0405_39.D
Acq: 6 Apr 2021 1:39 pm

Tgt Ion: 61 Resp: 16442

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 61 | 100 | | |
| 96 | 55.4 | 44.7 | 67.1 |
| 98 | 36.4 | 28.6 | 42.8 |

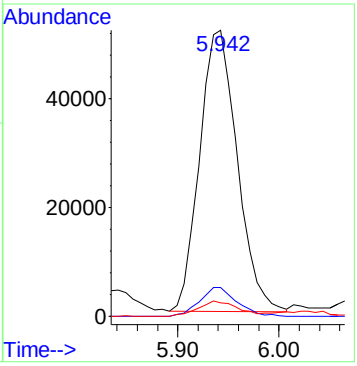


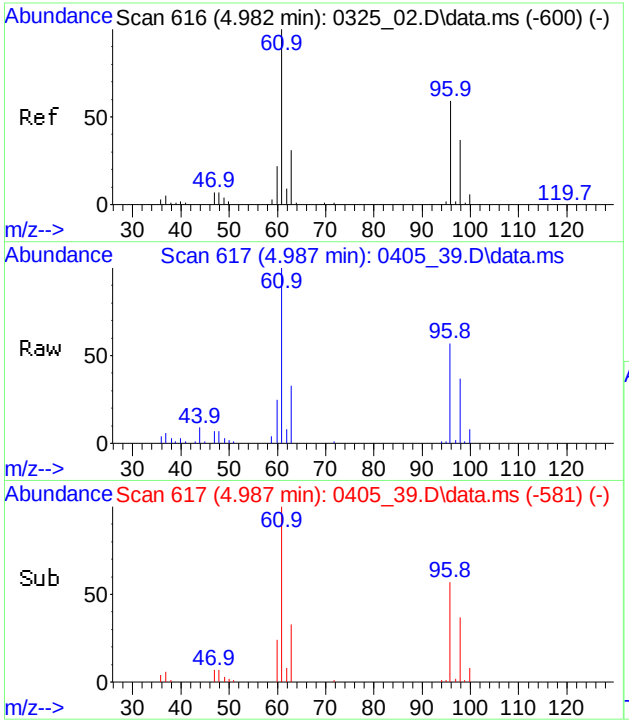



#25
Methyl Ethyl Ketone
Conc: 8$ 1.670 ppbv
RT: 5.942 min Scan# 749
Delta R.T. 0.036 min
Lab File: 0405_39.D
Acq: 6 Apr 2021 1:39 pm

Tgt Ion: 43 Resp: 133159

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 9.9 | 8.5 | 12.7 |
| 57 | 5.8 | 4.2 | 6.4 |

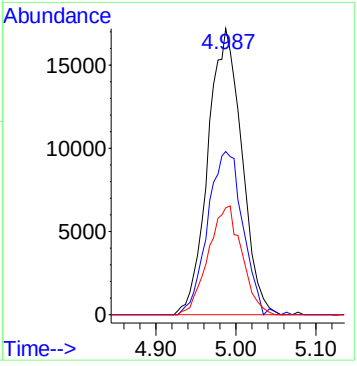


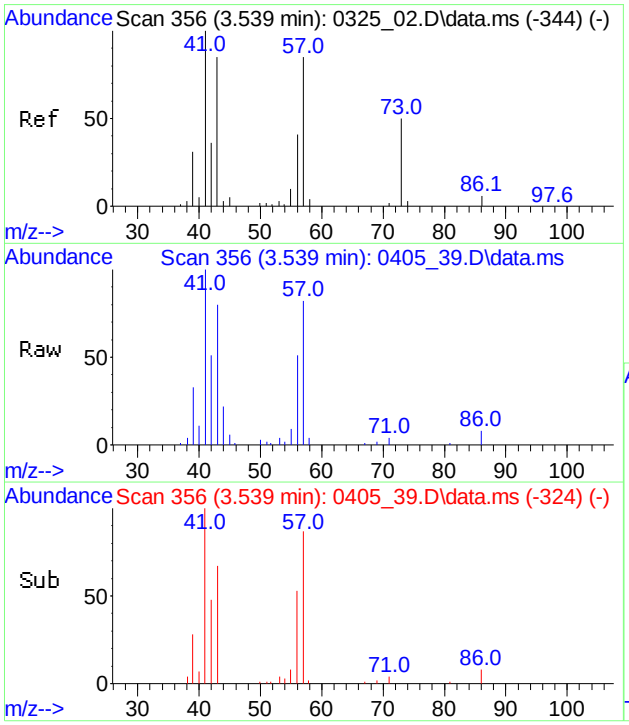




#26
Cis-1,2-Dichloroethene
Conc: 8$ 1.220 ppbv
RT: 4.987 min Scan# 617
Delta R.T. 0.030 min
Lab File: 0405_39.D
Acq: 6 Apr 2021 1:39 pm

Tgt Ion: 61 Resp: 52858

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 61 | 100 | | |
| 96 | 60.8 | 48.0 | 72.0 |
| 98 | 37.5 | 29.7 | 44.5 |

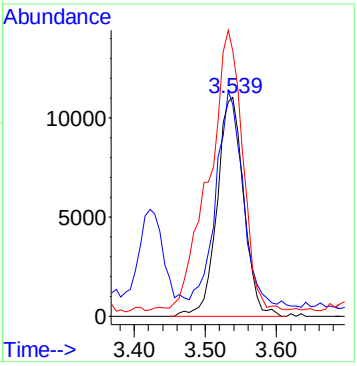


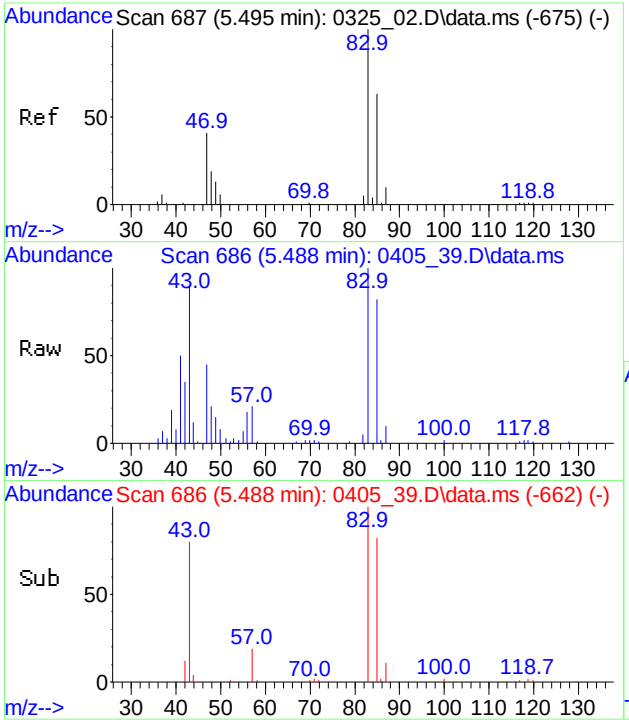



#27
Hexane
Conc: 8$ 0.534 ppbv
RT: 3.539 min Scan# 356
Delta R.T. 0.021 min
Lab File: 0405_39.D
Acq: 6 Apr 2021 1:39 pm

Tgt Ion: 57 Resp: 28669

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 43 | 96.9 | 83.3 | 124.9 |
| 41 | 162.5 | 95.6 | 143.4# |

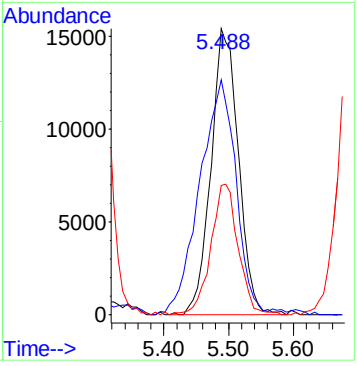


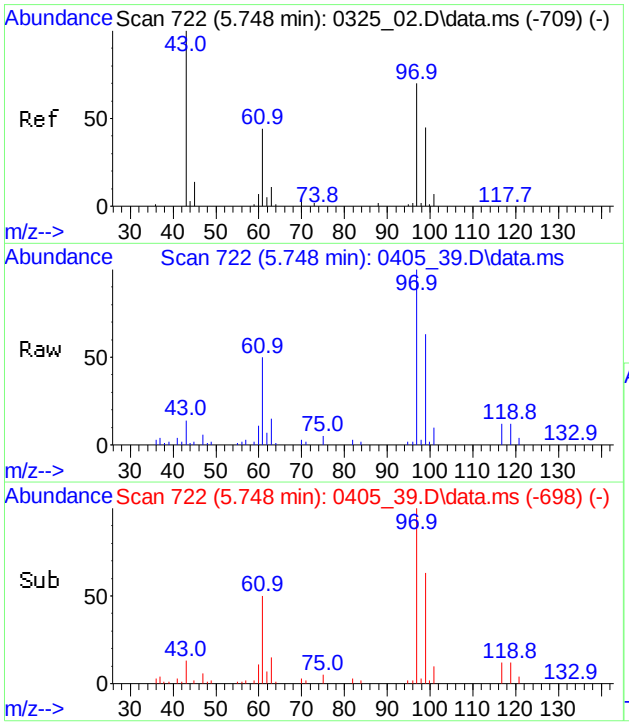




#28
Chloroform
Conc: 8$ 0.792 ppbv
RT: 5.488 min Scan# 686
Delta R.T. 0.022 min
Lab File: 0405_39.D
Acq: 6 Apr 2021 1:39 pm

Tgt Ion: 83 Resp: 45269

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 108.0 | 44.4 | 84.4# |
| 47 | 45.5 | 20.0 | 60.0 |

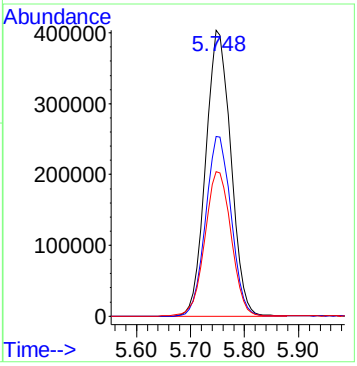


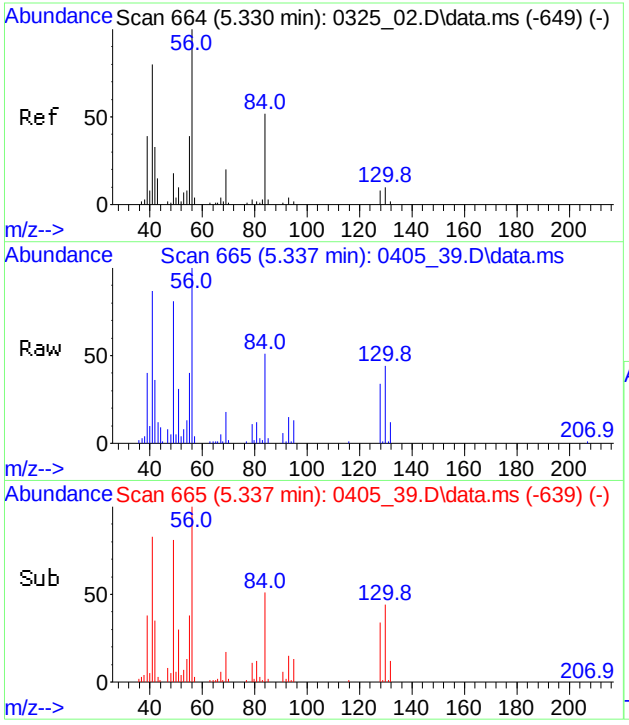



#32
1,1,1-Trichloroethane
Conc: 8$ 20.737 ppbv
RT: 5.748 min Scan# 722
Delta R.T. 0.022 min
Lab File: 0405_39.D
Acq: 6 Apr 2021 1:39 pm

Tgt Ion: 97 Resp: 1299205

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 63.7 | 51.3 | 76.9 |
| 61 | 52.9 | 50.1 | 75.1 |

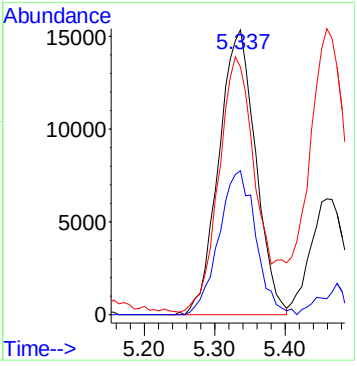


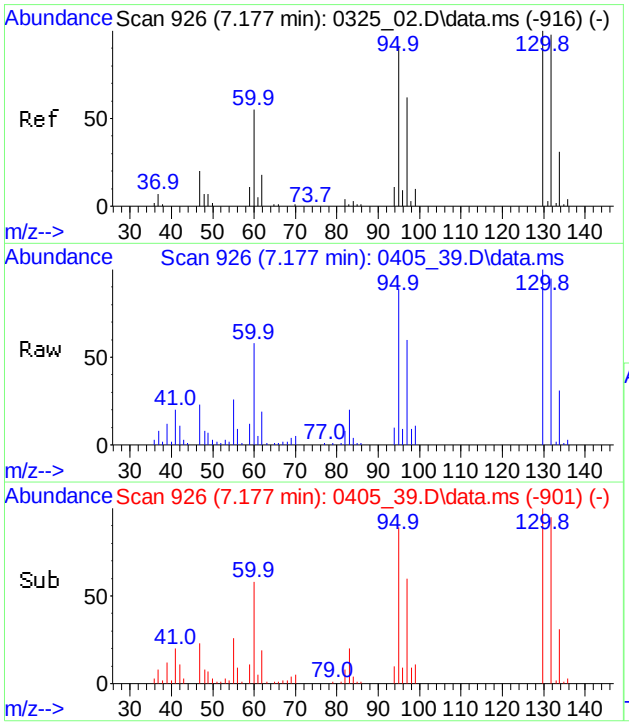




#35
Cyclohexane
Conc: 8$ 1.327 ppbv
RT: 5.337 min Scan# 665
Delta R.T. 0.036 min
Lab File: 0405_39.D
Acq: 6 Apr 2021 1:39 pm

Tgt Ion: 56 Resp: 55918

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 84 | 50.3 | 42.2 | 63.4 |
| 41 | 89.2 | 64.1 | 96.1 |

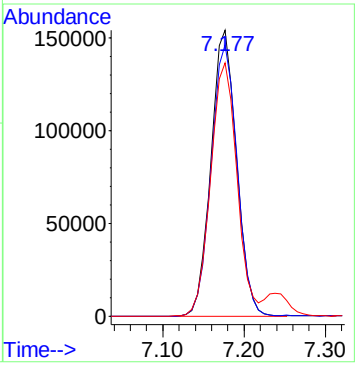


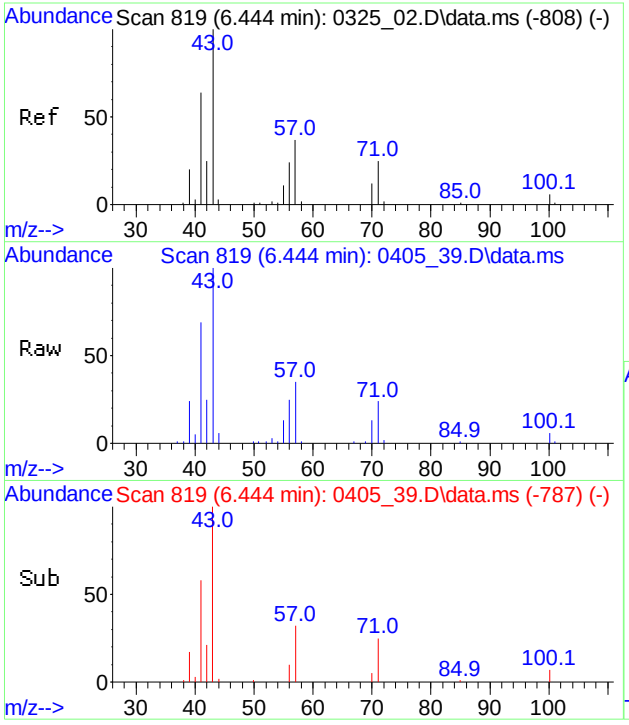



#39
Trichloroethene
Conc: 8$ 8.809 ppbv
RT: 7.177 min Scan# 926
Delta R.T. 0.021 min
Lab File: 0405_39.D
Acq: 6 Apr 2021 1:39 pm

Tgt Ion:130 Resp: 336057

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 132 | 96.6 | 76.6 | 115.0 |
| 95 | 91.2 | 72.3 | 108.5 |

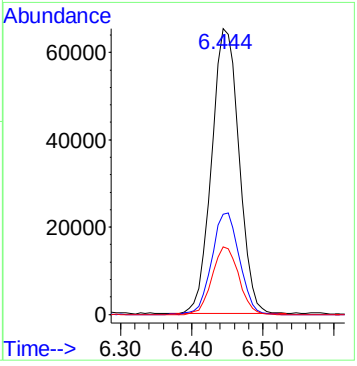


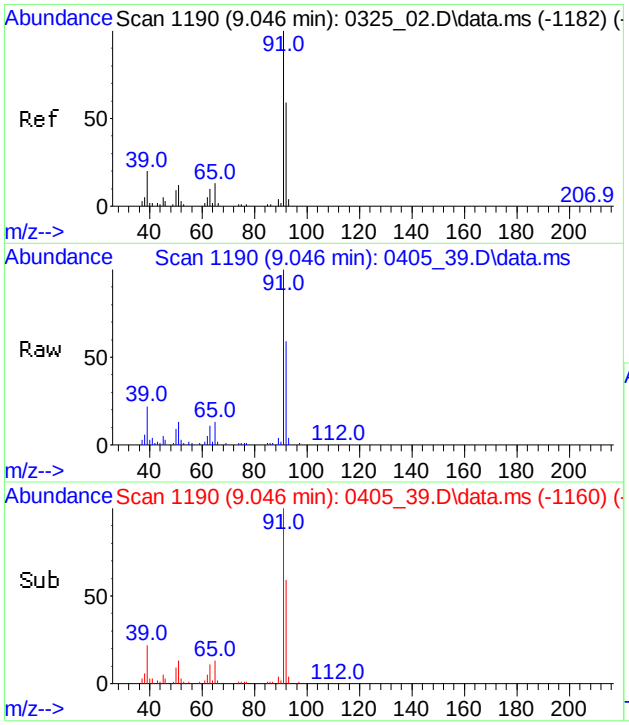




#43
Heptane
Conc: 8$ 2.573 ppbv
RT: 6.444 min Scan# 819
Delta R.T. 0.021 min
Lab File: 0405_39.D
Acq: 6 Apr 2021 1:39 pm

Tgt Ion: 43 Resp: 174381

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 57 | 35.9 | 29.5 | 44.3 |
| 71 | 23.1 | 19.8 | 29.8 |

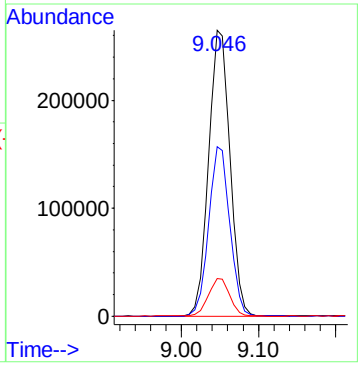


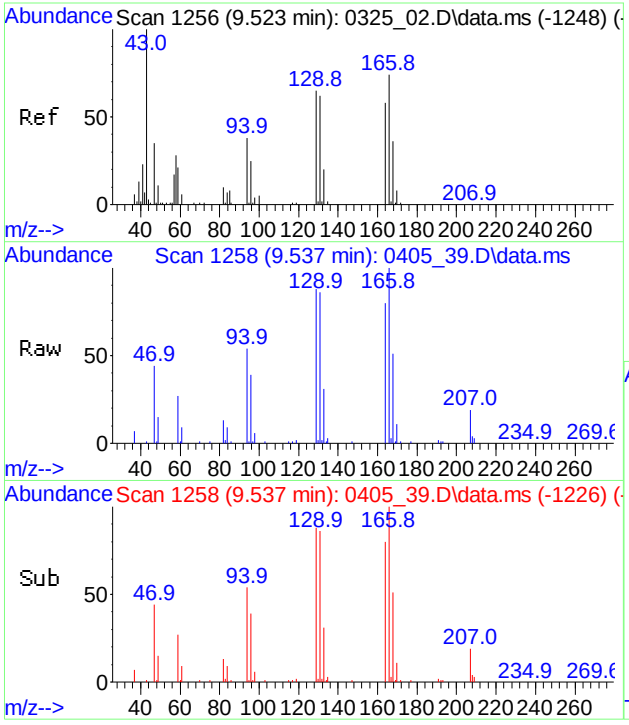



#48
Toluene
Conc: 8$ 6.577 ppbv
RT: 9.046 min Scan# 1190
Delta R.T. 0.014 min
Lab File: 0405_39.D
Acq: 6 Apr 2021 1:39 pm

Tgt Ion: 91 Resp: 508675

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 58.5 | 46.3 | 69.5 |
| 65 | 13.1 | 10.1 | 15.1 |

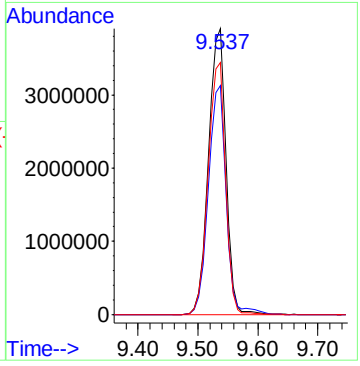


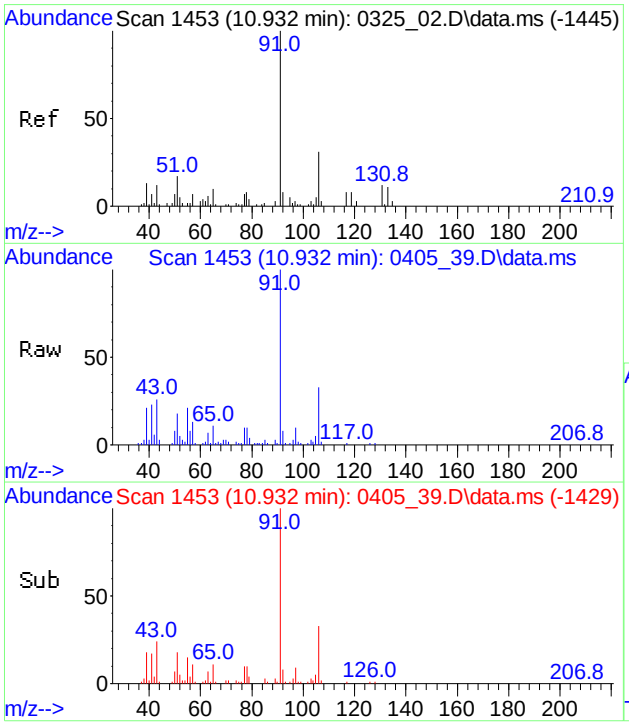




#52
Tetrachloroethene
Conc: 8$ 170.873 ppbv
RT: 9.537 min Scan# 1258
Delta R.T. 0.029 min
Lab File: 0405_39.D
Acq: 6 Apr 2021 1:39 pm

Tgt Ion:166 Resp: 7910213

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 164 | 81.6 | 62.2 | 93.4 |
| 129 | 87.9 | 68.3 | 102.5 |

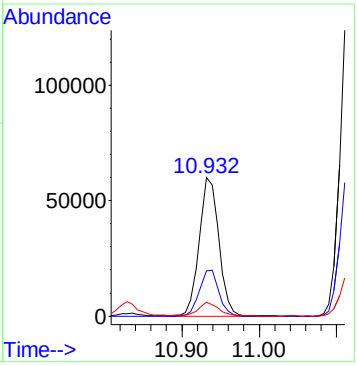


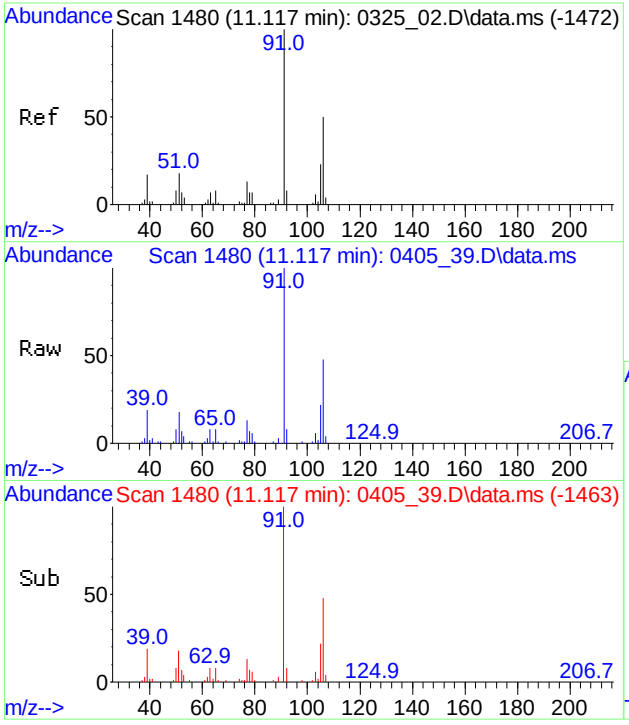



#56
Ethylbenzene
Conc: 8$ 0.906 ppbv
RT: 10.932 min Scan# 1453
Delta R.T. 0.014 min
Lab File: 0405_39.D
Acq: 6 Apr 2021 1:39 pm

Tgt Ion: 91 Resp: 105536

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 32.4 | 11.4 | 51.4 |
| 77 | 10.3 | 0.0 | 28.7 |

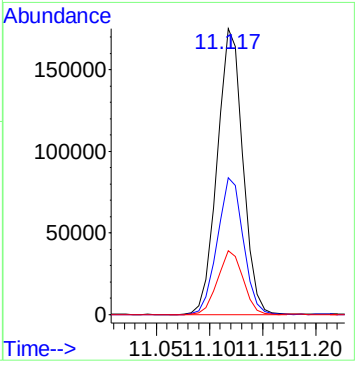


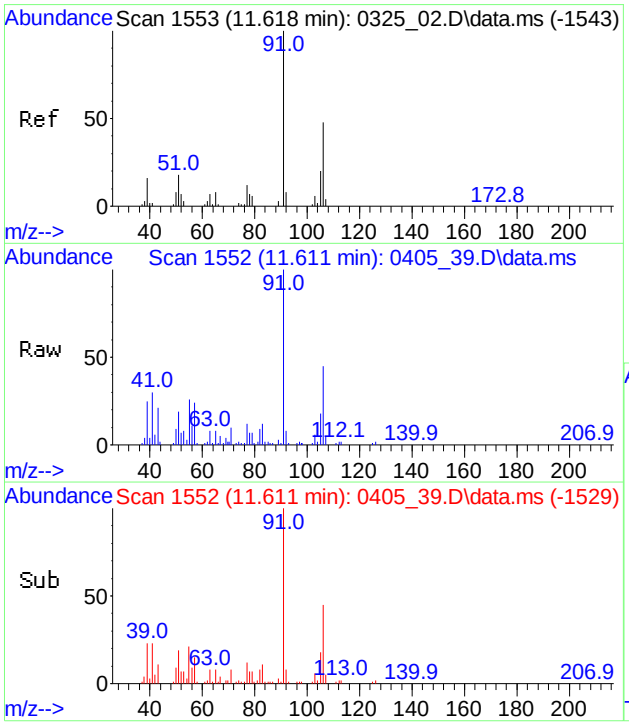




#57
m,p-Xylene
Conc: 8$ 3.343 ppbv
RT: 11.117 min Scan# 1480
Delta R.T. 0.013 min
Lab File: 0405_39.D
Acq: 6 Apr 2021 1:39 pm

Tgt Ion: 91 Resp: 293038

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 48.4 | 39.8 | 59.8 |
| 105 | 22.2 | 18.2 | 27.4 |

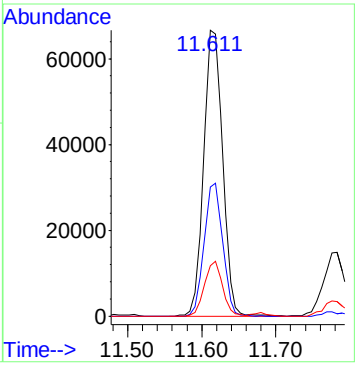


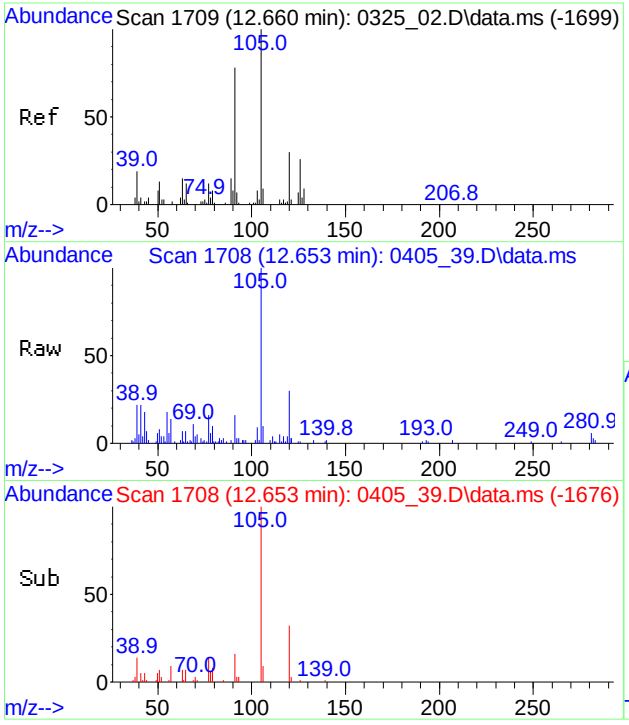



#61
o-Xylene
Conc: 8$ 1.347 ppbv
RT: 11.611 min Scan# 1552
Delta R.T. 0.007 min
Lab File: 0405_39.D
Acq: 6 Apr 2021 1:39 pm

Tgt Ion: 91 Resp: 117968

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 45.5 | 37.5 | 56.3 |
| 105 | 18.3 | 15.1 | 22.7 |

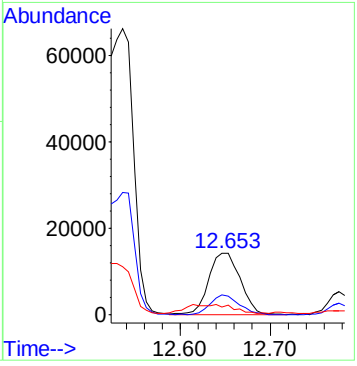


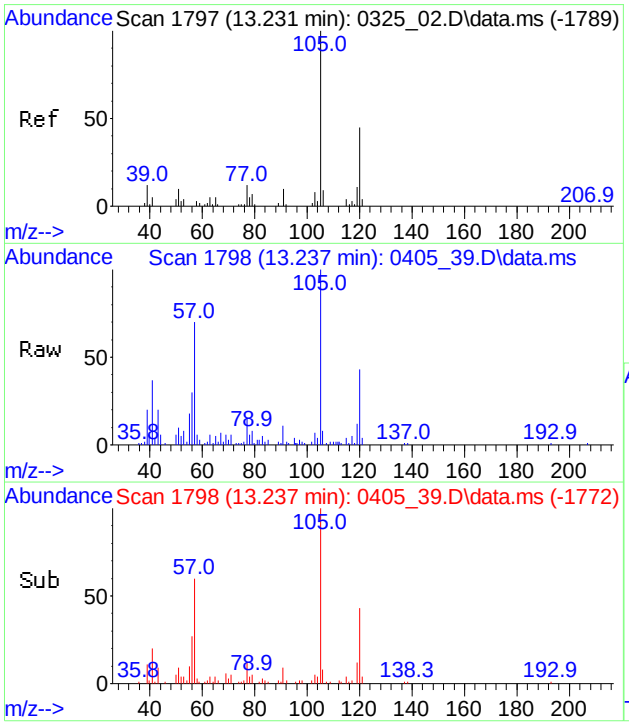




#66
4-Ethyltoluene
Conc: 8$ 0.266 ppbv
RT: 12.653 min Scan# 1708
Delta R.T. 0.007 min
Lab File: 0405_39.D
Acq: 6 Apr 2021 1:39 pm

Tgt Ion:105 Resp: 34508

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 28.7 | 24.0 | 36.0 |
| 77 | 11.6 | 9.2 | 13.8 |

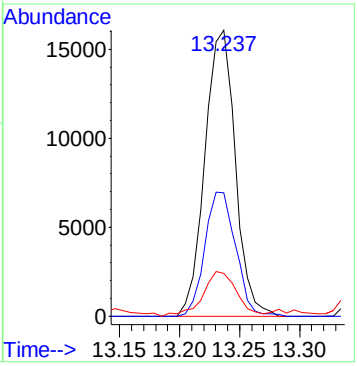


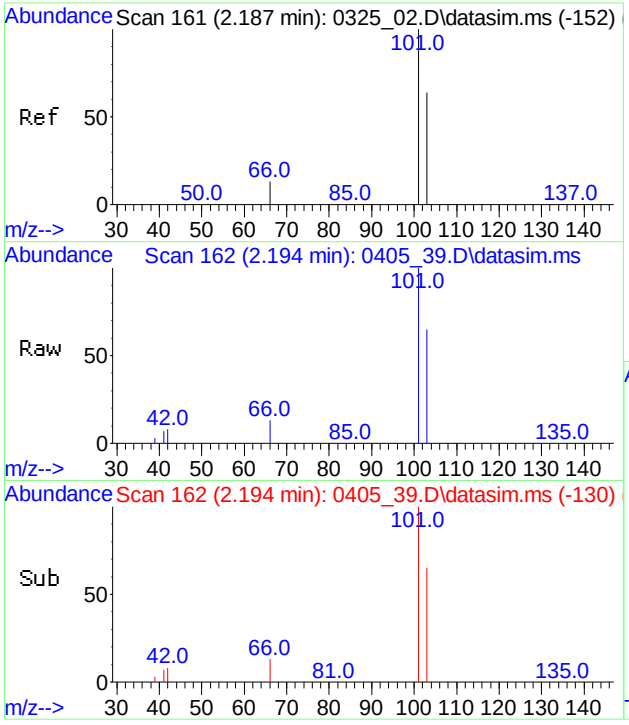



#68
1,2,4-Trimethylbenzene
Conc: 8$ 0.279 ppbv
RT: 13.237 min Scan# 1798
Delta R.T. 0.020 min
Lab File: 0405_39.D
Acq: 6 Apr 2021 1:39 pm

Tgt Ion:105 Resp: 28244

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 43.9 | 36.7 | 55.1 |
| 77 | 17.1 | 10.0 | 15.0# |

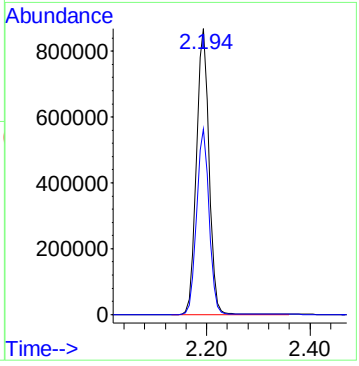


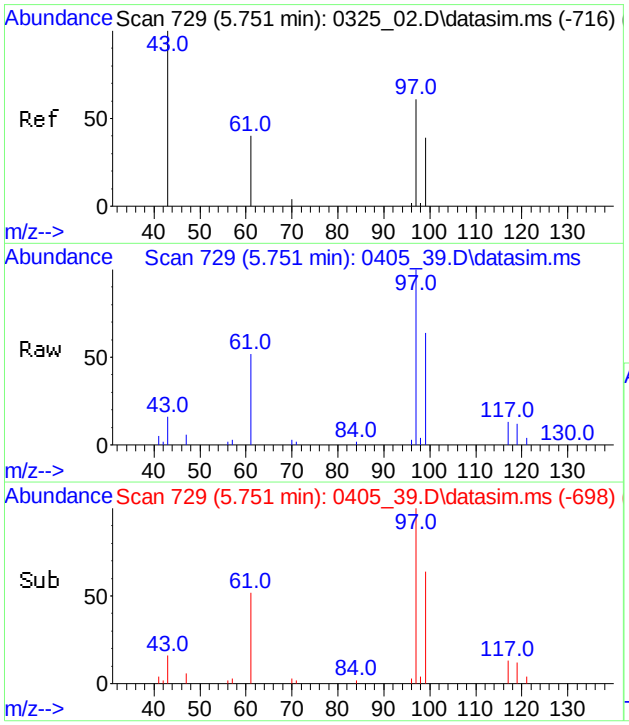




#84
Trichlorofluoromethane(sim)
Conc: 8$ 16.317 ppbv
RT: 2.194 min Scan# 162
Delta R.T. 0.021 min
Lab File: 0405_39.D
Acq: 6 Apr 2021 1:39 pm

Tgt Ion:101 Resp: 1451755

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 64.6 | 51.9 | 77.9 |

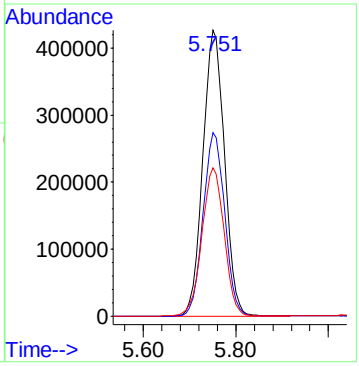


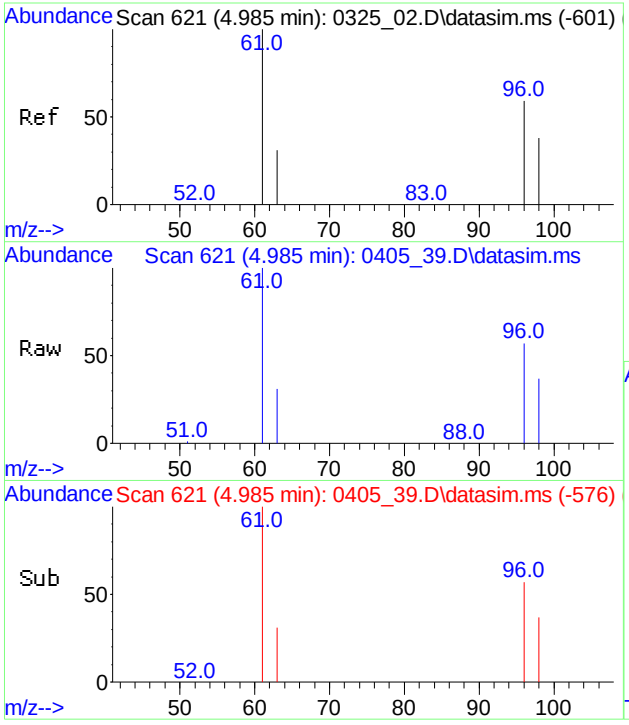



#85
1,1,1-Trichloroethane(sim)
Conc: 8$ 19.708 ppbv
RT: 5.748 min Scan# 729
Delta R.T. 0.022 min
Lab File: 0405_39.D
Acq: 6 Apr 2021 1:39 pm

Tgt Ion: 97 Resp: 1299911

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 63.7 | 64.0 | 64.0# |
| 61 | 52.8 | 50.0 | 75.0 |

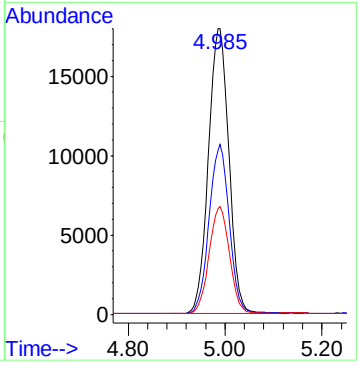


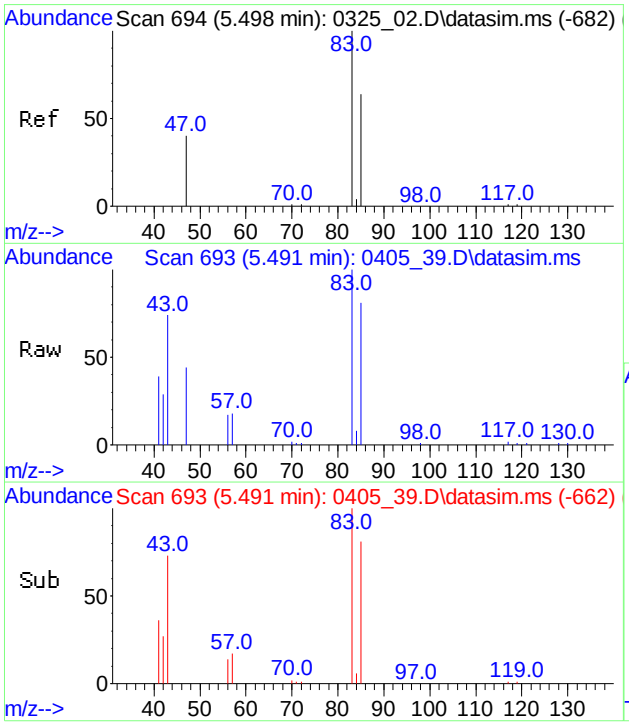




#92
Cis-1,2-Dichloroethene(sim)
Conc: 8$ 1.272 ppbv
RT: 4.985 min Scan# 621
Delta R.T. 0.025 min
Lab File: 0405_39.D
Acq: 6 Apr 2021 1:39 pm

Tgt Ion: 61 Resp: 60115

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 61 | 100 | | |
| 96 | 58.6 | 48.1 | 72.1 |
| 98 | 37.3 | 29.5 | 44.3 |

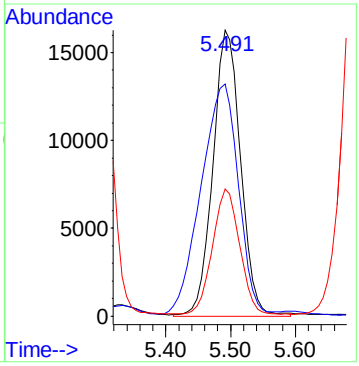


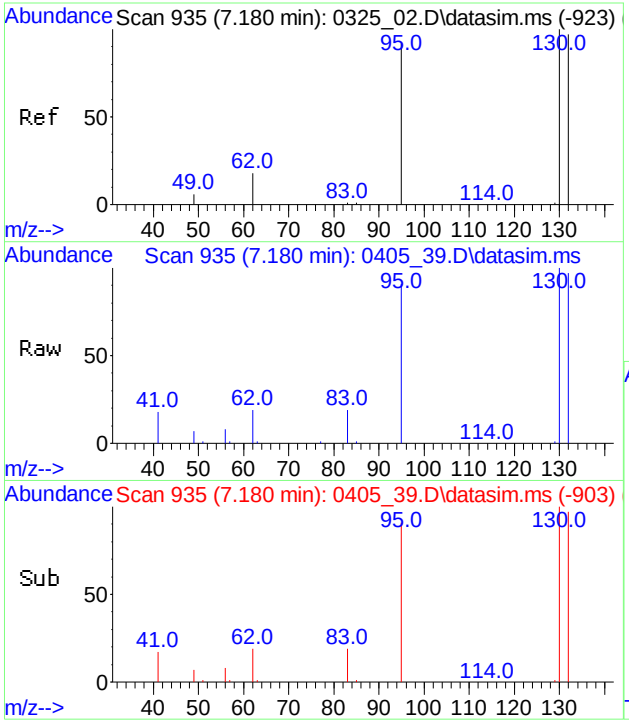



#93
Chloroform(sim)
Conc: 8$ 0.732 ppbv
RT: 5.488 min Scan# 693
Delta R.T. 0.022 min
Lab File: 0405_39.D
Acq: 6 Apr 2021 1:39 pm

Tgt Ion: 83 Resp: 45269

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 108.0 | 51.6 | 77.4# |
| 47 | 45.5 | 32.1 | 48.1 |

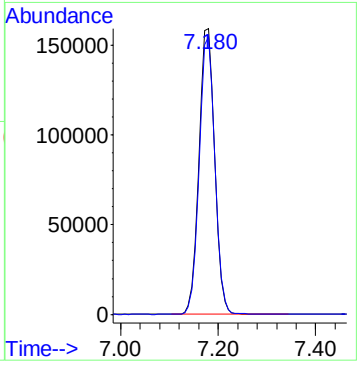


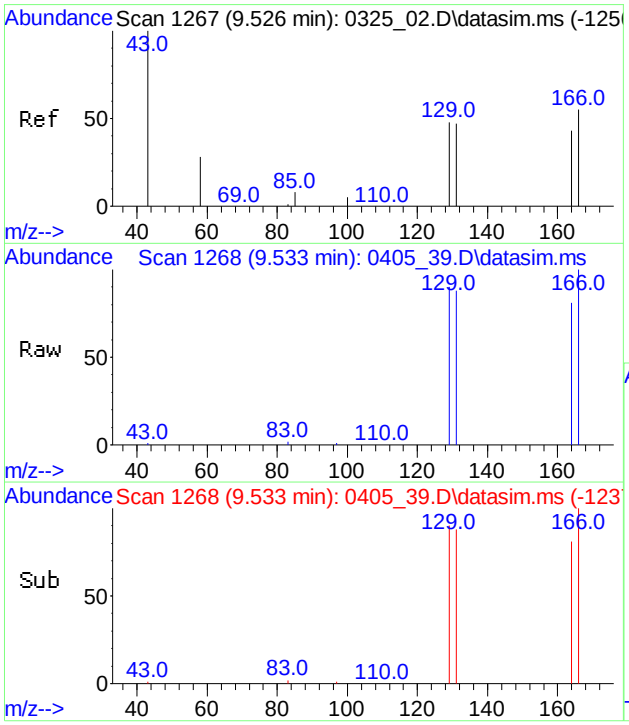




#98
Trichloroethene(sim)
Conc: 8$ 8.376 ppbv
RT: 7.180 min Scan# 935
Delta R.T. 0.021 min
Lab File: 0405_39.D
Acq: 6 Apr 2021 1:39 pm

Tgt Ion:130 Resp: 357041

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 132 | 96.5 | 77.1 | 115.7 |

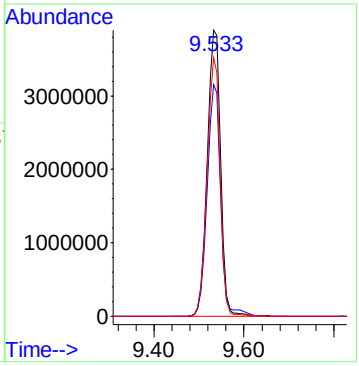


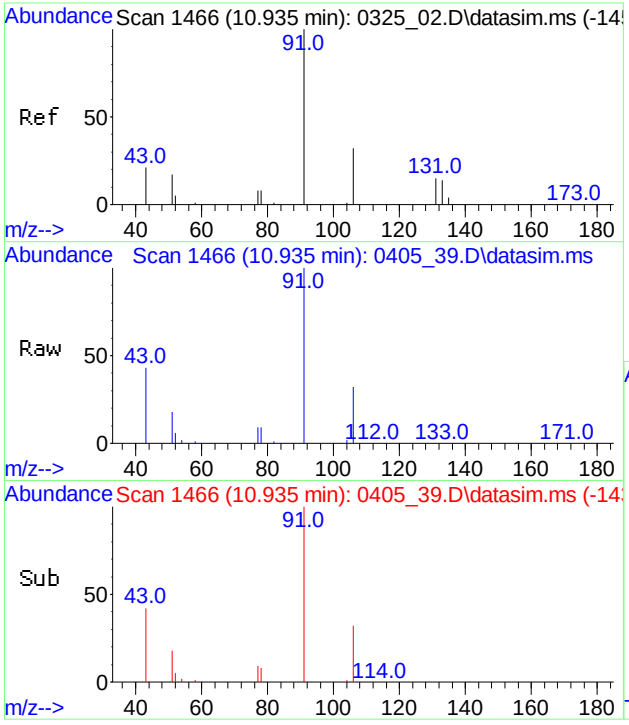



#104
Tetrachloroethene(sim)
Conc: 8$ 163.084 ppbv
RT: 9.533 min Scan# 1268
Delta R.T. 0.022 min
Lab File: 0405_39.D
Acq: 6 Apr 2021 1:39 pm

Tgt Ion:166 Resp: 8094970

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 164 | 81.7 | 58.4 | 98.4 |
| 129 | 88.2 | 66.6 | 106.6 |

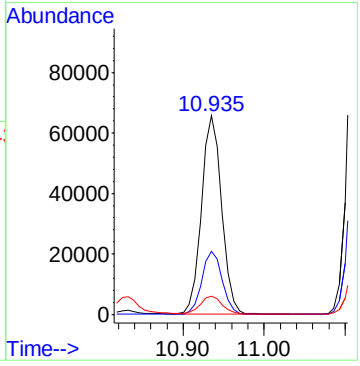


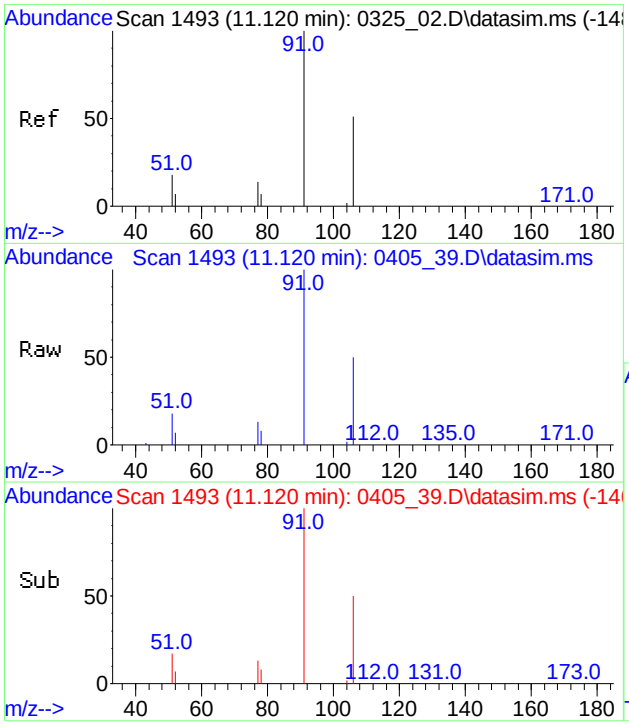




#108
Ethylbenzene(sim)
Conc: 8$ 0.890 ppb
RT: 10.935 min Scan# 1466
Delta R.T. 0.014 min
Lab File: 0405_39.D
Acq: 6 Apr 2021 1:39 pm

Tgt Ion: 91 Resp: 112982

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 32.0 | 25.8 | 38.8 |
| 77 | 10.0 | 7.0 | 10.6 |

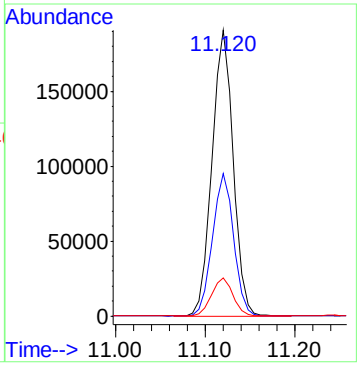


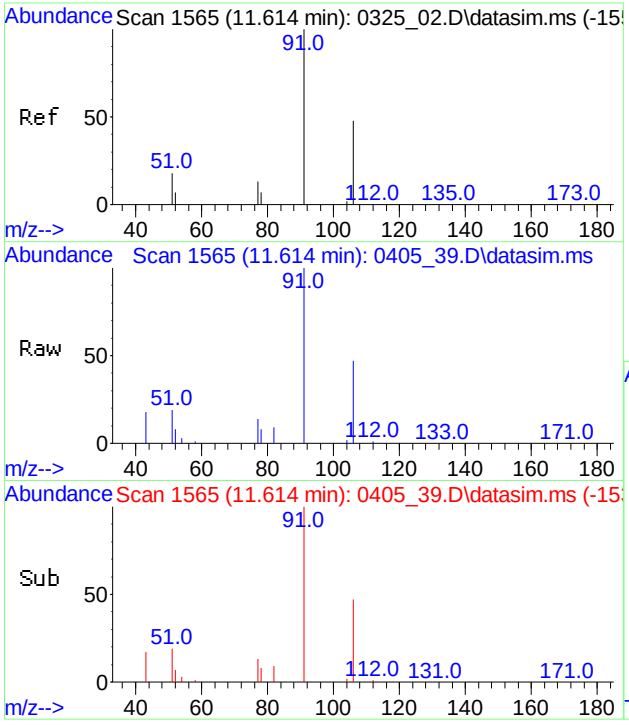



#109
m,p-Xylene(sim)
Conc: 8$ 3.392 ppbv
RT: 11.117 min Scan# 1493
Delta R.T. 0.013 min
Lab File: 0405_39.D
Acq: 6 Apr 2021 1:39 pm

Tgt Ion: 91 Resp: 293399

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 48.3 | 44.8 | 54.8 |
| 77 | 13.1 | 10.5 | 15.7 |

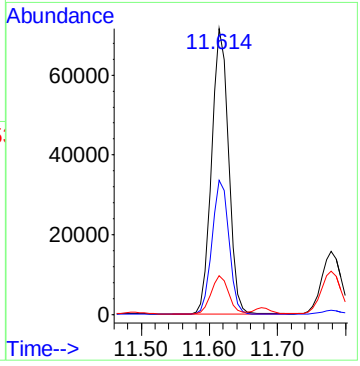



#110
o-Xylene(sim)
Conc: 8$ 1.366 ppb
RT: 11.614 min Scan# 1565
Delta R.T. 0.014 min
Lab File: 0405_39.D
Acq: 6 Apr 2021 1:39 pm

Tgt Ion: 91 Resp: 123604

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 47.2 | 37.6 | 56.4 |
| 77 | 13.9 | 9.8 | 14.8 |



1

AIR ANALYSIS DATA SHEET

CLIENT ID: CH91147 BLANK

Client: GC-ENV Lab: Phoenix Env. Labs

SDG No.: GCH92051 Lab Sample ID: CH91147 BL

Canister: BL Lab File ID: 0405_38.D

Instrument: CHEM24 Column: RTX-VMS Date Received: 04/02/21

Purge Volume 200 (cc) Date Analyzed: 04/06/21

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

| CAS NO. | COMPOUND | CONC. | Q | MDL | PQL | R |
|---|---|---|---|---|---|---|
| 115-07-1 | Propylene | 0.500 | U | 0.500 | 0.500 | r |
| 75-71-8 | Dichlorodifluoromethane | 0.500 | U | 0.500 | 0.500 | r |
| 74-87-3 | Chloromethane | 0.500 | U | 0.500 | 0.500 | r |
| 106-99-0 | 1,3-Butadiene | 0.500 | U | 0.500 | 0.500 | r |
| 75-00-3 | Chloroethane | 0.500 | U | 0.500 | 0.500 | r |
| 64-17-5 | Ethanol | 0.500 | U | 0.500 | 0.500 | r |
| 67-64-1 | Acetone | 0.500 | U | 0.500 | 0.500 | r |
| 67-63-0 | Isopropylalcohol | 0.500 | U | 0.500 | 0.500 | r |
| 107-13-1 | Acrylonitrile | 0.500 | U | 0.500 | 0.500 | r |
| 75-09-2 | Methylene Chloride | 0.500 | U | 0.500 | 0.500 | r |
| 75-15-0 | Carbon Disulfide | 0.500 | U | 0.500 | 0.500 | r |
| 1634-04-4 | Methyl tert-butyl ether(MTBE) | 0.500 | U | 0.500 | 0.500 | r |
| 78-93-3 | Methyl Ethyl Ketone | 0.500 | U | 0.500 | 0.500 | r |
| 110-54-3 | Hexane | 0.500 | U | 0.500 | 0.500 | r |
| 141-78-6 | Ethyl acetate | 0.500 | U | 0.500 | 0.500 | r |
| 109-99-9 | Tetrahydrofuran | 0.500 | U | 0.500 | 0.500 | r |
| 110-82-7 | Cyclohexane | 0.500 | U | 0.500 | 0.500 | r |
| 142-82-5 | Heptane | 0.500 | U | 0.500 | 0.500 | r |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | 0.500 | U | 0.500 | 0.500 | r |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.500 | U | 0.500 | 0.500 | r |
| 108-88-3 | Toluene | 0.500 | U | 0.500 | 0.500 | r |
| 591-78-6 | 2-Hexanone(MBK) | 0.500 | U | 0.500 | 0.500 | r |
| 108-90-7 | Chlorobenzene | 0.500 | U | 0.500 | 0.500 | r |
| 100-42-5 | Styrene | 0.500 | U | 0.500 | 0.500 | r |
| 98-82-8 | Isopropylbenzene | 0.500 | U | 0.500 | 0.500 | r |
| 622-96-8 | 4-Ethyltoluene | 0.500 | U | 0.500 | 0.500 | r |
| 108-67-8 | 1,3,5-Trimethylbenzene | 0.500 | U | 0.500 | 0.500 | r |
| 95-63-6 | 1,2,4-Trimethylbenzene | 0.500 | U | 0.500 | 0.500 | r |
| 76-14-2 | 1,2-Dichlorotetrafluoroethane(sim) | 0.500 | U | 0.500 | 0.500 | r |
| 75-01-4 | Vinyl Chloride(sim) | 0.500 | U | 0.500 | 0.500 | r |
| 74-83-9 | Bromomethane(sim) | 0.500 | U | 0.500 | 0.500 | r |
| 75-69-4 | Trichlorofluoromethane(sim) | 0.500 | U | 0.500 | 0.500 | r |
| 71-55-6 | 1,1,1-Trichloroethane(sim) | 0.500 | U | 0.500 | 0.500 | r |
| 71-43-2 | Benzene(sim) | 0.500 | U | 0.500 | 0.500 | r |
| 56-23-5 | Carbon Tetrachloride(sim) | 0.500 | U | 0.500 | 0.500 | r |
| 75-35-4 | 1,1-Dichloroethene(sim) | 0.500 | U | 0.500 | 0.500 | 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: CH91147 BLANK

Client: GC-ENV Lab: Phoenix Env. Labs

SDG No.: GCH92051 Lab Sample ID: CH91147 BL

Canister: BL Lab File ID: 0405_38.D

Instrument: CHEM24 Column: RTX-VMS Date Received: 04/02/21

Purge Volume 200 (cc) Date Analyzed: 04/06/21

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

| CAS NO. | COMPOUND | CONC. | Q | MDL | PQL | R |
|---|---|---|---|---|---|---|
| 76-13-1 | Trichlorotrifluoroethane(sim) | 0.500 | U | 0.500 | 0.500 | r |
| 156-60-5 | Trans-1,2-Dichloroethene(sim) | 0.500 | U | 0.500 | 0.500 | r |
| 75-34-3 | 1,1-Dichloroethane(sim) | 0.500 | U | 0.500 | 0.500 | r |
| 156-59-2 | Cis-1,2-Dichloroethene(sim) | 0.500 | U | 0.500 | 0.500 | r |
| 67-66-3 | Chloroform(sim) | 0.500 | U | 0.500 | 0.500 | r |
| 107-06-2 | 1,2-Dichloroethane(sim) | 0.500 | U | 0.500 | 0.500 | r |
| 78-87-5 | 1,2-dichloropropane(sim) | 0.500 | U | 0.500 | 0.500 | r |
| 75-27-4 | Bromodichloromethane(sim) | 0.400 | U | 0.400 | 0.400 | r |
| 79-01-6 | Trichloroethene(sim) | 0.200 | U | 0.200 | 0.200 | r |
| 123-91-1 | 1,4-Dioxane(sim) | 0.500 | U | 0.500 | 0.500 | r |
| 10061-01-5 | cis-1,3-Dichloropropene(sim) | 0.500 | U | 0.500 | 0.500 | r |
| 79-00-5 | 1,1,2-Trichloroethane(sim) | 0.500 | U | 0.500 | 0.500 | r |
| 124-48-1 | Dibromochloromethane(sim) | 0.500 | U | 0.500 | 0.500 | r |
| 106-93-4 | 1,2-Dibromoethane(EDB)(sim) | 0.500 | U | 0.500 | 0.500 | r |
| 127-18-4 | Tetrachloroethene(sim) | 0.200 | U | 0.200 | 0.200 | r |
| 75-25-2 | Bromoform(sim) | 0.500 | U | 0.500 | 0.500 | r |
| 630-20-6 | 1,1,1,2-Tetrachloroethane(sim) | 0.500 | U | 0.500 | 0.500 | r |
| 100-41-4 | Ethylbenzene(sim) | 0.500 | U | 0.500 | 0.500 | r |
| 179601-23-1 | m,p-Xylene(sim) | 1.00 | U | 1.00 | 1.00 | r |
| 95-47-6 | o-Xylene(sim) | 0.500 | U | 0.500 | 0.500 | r |
| 79-34-5 | 1,1,2,2-Tetrachloroethane(sim) | 0.500 | U | 0.500 | 0.500 | r |
| 100-44-7 | Benzyl chloride(sim) | 0.500 | U | 0.500 | 0.500 | r |
| 541-73-1 | 1,3-Dichlorobenzene(sim) | 0.500 | U | 0.500 | 0.500 | r |
| 106-46-7 | 1,4-Dichlorobenzene(sim) | 0.500 | U | 0.500 | 0.500 | r |
| 135-98-8 | sec-Butylbenzene(sim) | 0.500 | U | 0.500 | 0.500 | r |
| 99-87-6 | 4-Isopropyltoluene(sim) | 0.500 | U | 0.500 | 0.500 | r |
| 95-50-1 | 1,2-Dichlorobenzene(sim) | 0.500 | U | 0.500 | 0.500 | r |
| 104-51-8 | n-Butylbenzene(sim) | 0.500 | U | 0.500 | 0.500 | r |
| 120-82-1 | 1,2,4-Trichlorobenzene(sim) | 0.500 | U | 0.500 | 0.500 | r |
| 87-68-3 | Hexachlorobutadiene(sim) | 0.500 | U | 0.500 | 0.500 | r |
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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:\AIR2021\CHEM24\04APR\05\
Data File : 0405_38.D
Acq On : 6 Apr 2021 1:03 pm
Operator : Keith
Client ID : CH91147 BLANK
Lab ID : CH91147 BLANK
ALS Vial : 36 Sample Multiplier: 1

Quant Time: Apr 06 15:34:07 2021
Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 26 09:02:26 2021
Response via : Initial Calibration

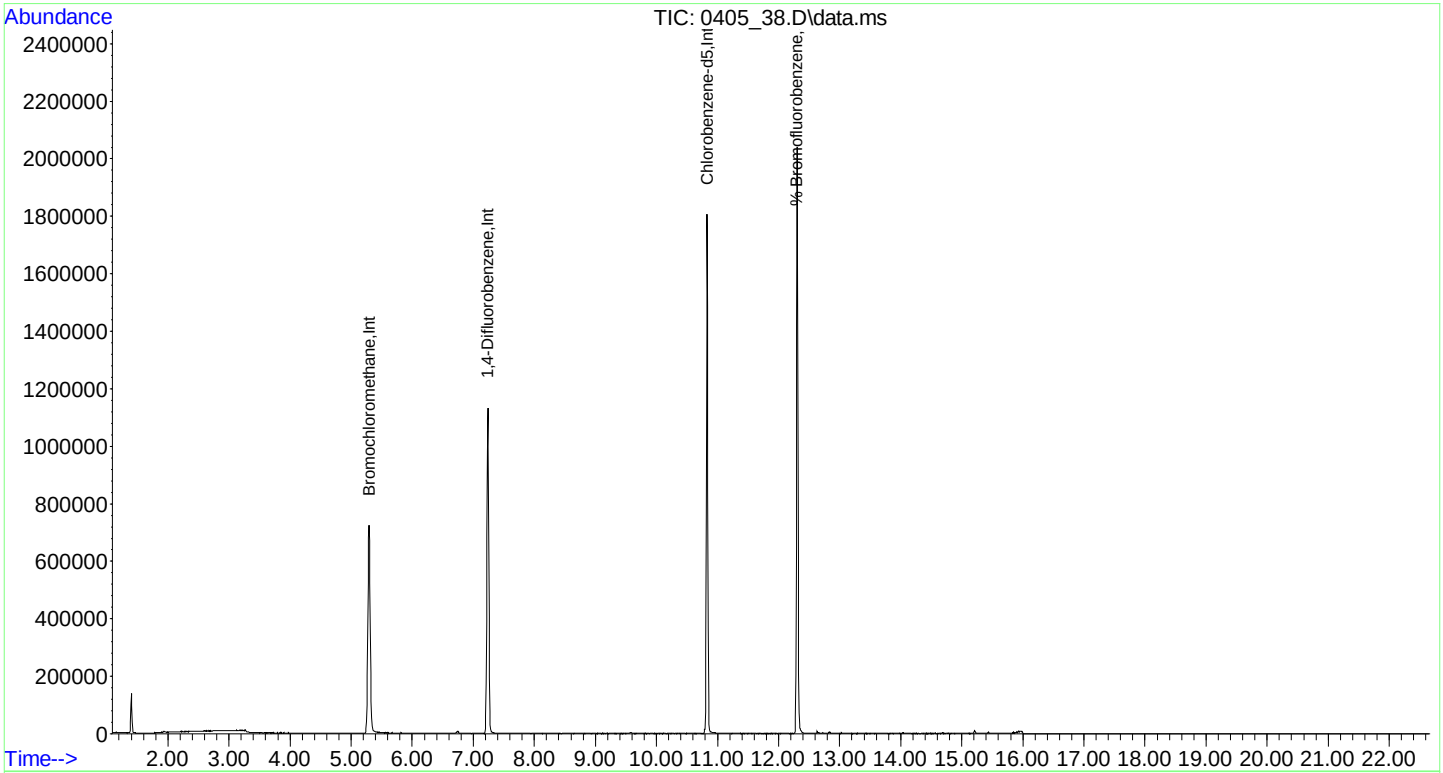
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Bromochloromethane | 5.293 | 130 | 307096 | 10.000 | ng | | 0.03 |
| 36) 1,4-Difluorobenzene | 7.238 | 114 | 974134 | 10.000 | ng | | 0.01 |
| 53) Chlorobenzene-d5 | 10.829 | 82 | 439644 | 10.000 | ng | | 0.01 |
| 80) Bromochloromethane(sim) | 5.296 | 130 | 319997 | 10.000 | ng | # | 0.03 |
| 95) 1,4-Difluorobenzene(sim) | 7.238 | 114 | 974134 | 10.000 | ng | | 0.01 |
| 105) Chlorobenzene-d5(sim) | 10.829 | 82 | 439644 | 10.000 | ng | | 0.01 |
| System Monitoring Compounds | | | | | | | |
| 62) % Bromofluorobenzene | 12.303 | 95 | 598224 | 9.811 | ppbv | | 0.00 |
| Spiked Amount 10.000 | Range 70 - 130 | | Recovery = 98.10% | | | | |
| Target Compounds | | | | | | | Qvalue |

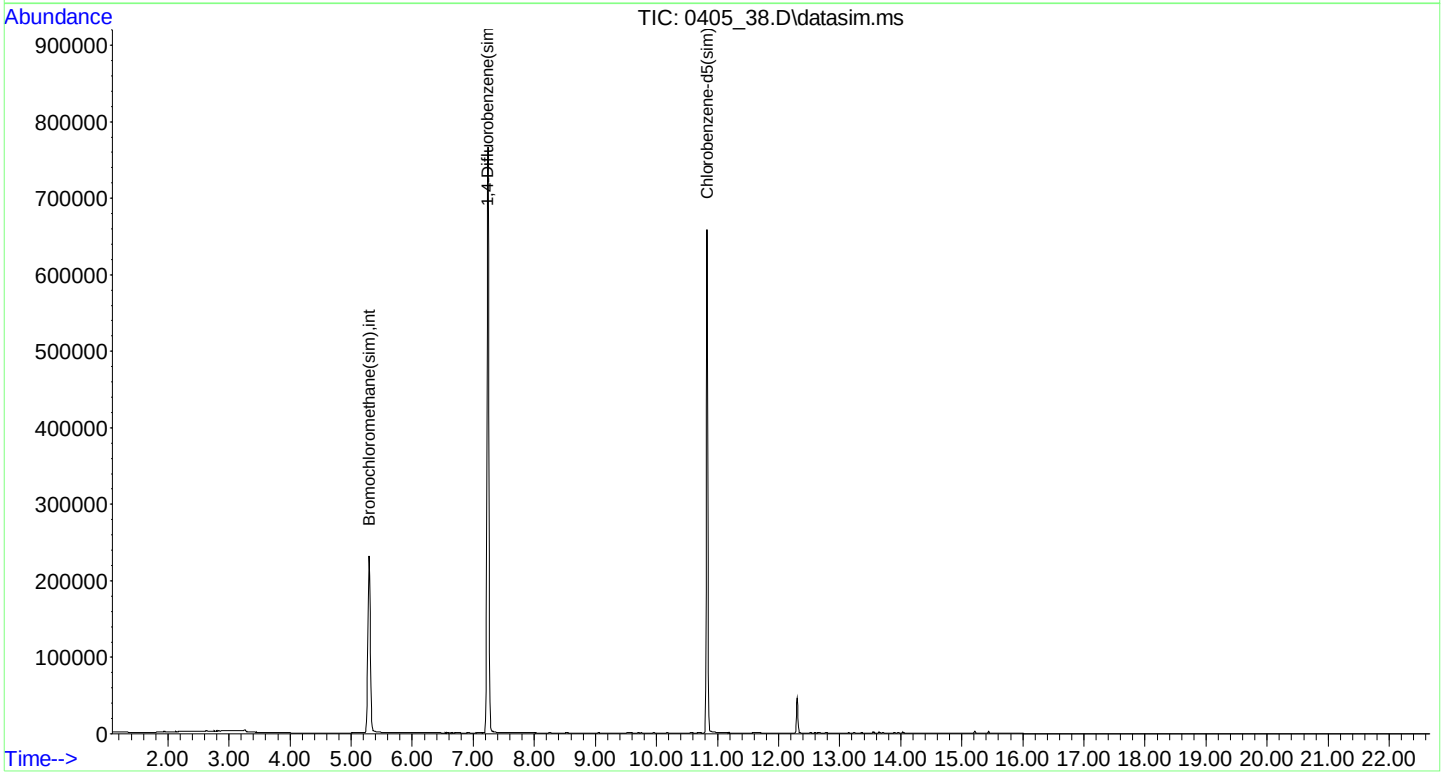
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2021\CHEM24\04APR\05\
Data File : 0405_38.D
Acq On : 6 Apr 2021 1:03 pm
Operator : Keith
Client ID : CH91147 BLANK
Lab ID : CH91147 BLANK
ALS Vial : 36 Sample Multiplier: 1

Quant Time: Apr 06 15:34:07 2021
Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 26 09:02:26 2021
Response via : Initial Calibration



1

AIR ANALYSIS DATA SHEET

CLIENT ID: 91147 dup

Client: GC-ENV Lab: Phoenix Env. Labs

SDG No.: GCH92051 Lab Sample ID: CH91147 DUP

Canister: 11287 Lab File ID: 0405_41.D

Instrument: CHEM24 Column: RTX-VMS Date Received: 04/02/21

Purge Volume 200 (cc) Date Analyzed: 04/06/21

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

| CAS NO. | COMPOUND | CONC. | Q | MDL | PQL | R |
|---|---|---|---|---|---|---|
| 115-07-1 | Propylene | 0.500 | U | 0.500 | 0.500 | r |
| 75-71-8 | Dichlorodifluoromethane | 1.56 | | 0.500 | 0.500 | r |
| 74-87-3 | Chloromethane | 0.500 | U | 0.500 | 0.500 | r |
| 106-99-0 | 1,3-Butadiene | 0.500 | U | 0.500 | 0.500 | r |
| 75-00-3 | Chloroethane | 0.500 | U | 0.500 | 0.500 | r |
| 64-17-5 | Ethanol | 274 | S | 0.531 | 0.531 | r |
| 67-64-1 | Acetone | 13.8 | S | 0.500 | 0.500 | r |
| 75-69-4 | Trichlorofluoromethane | 17.7 | | 0.500 | 0.500 | r |
| 67-63-0 | Isopropylalcohol | 0.500 | U | 0.500 | 0.500 | r |
| 107-13-1 | Acrylonitrile | 0.500 | U | 0.500 | 0.500 | r |
| 75-35-4 | 1,1-Dichloroethene | 0.500 | U | 0.500 | 0.500 | r |
| 75-09-2 | Methylene Chloride | 0.500 | U | 0.500 | 0.500 | r |
| 75-15-0 | Carbon Disulfide | 2.84 | | 0.500 | 0.500 | r |
| 156-60-5 | Trans-1,2-Dichloroethene | 0.500 | U | 0.500 | 0.500 | r |
| 1634-04-4 | Methyl tert-butyl ether(MTBE) | 0.500 | U | 0.500 | 0.500 | r |
| 78-93-3 | Methyl Ethyl Ketone | 1.65 | | 0.500 | 0.500 | r |
| 156-59-2 | Cis-1,2-Dichloroethene | 1.18 | | 0.500 | 0.500 | r |
| 110-54-3 | Hexane | 0.517 | S | 0.500 | 0.500 | r |
| 67-66-3 | Chloroform | 0.766 | | 0.500 | 0.500 | r |
| 141-78-6 | Ethyl acetate | 0.500 | U | 0.500 | 0.500 | r |
| 109-99-9 | Tetrahydrofuran | 0.500 | U | 0.500 | 0.500 | r |
| 71-55-6 | 1,1,1-Trichloroethane | 20.6 | | 0.500 | 0.500 | r |
| 110-82-7 | Cyclohexane | 1.28 | | 0.500 | 0.500 | r |
| 79-01-6 | Trichloroethene | 8.65 | | 0.200 | 0.200 | r |
| 142-82-5 | Heptane | 2.51 | | 0.500 | 0.500 | r |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | 0.500 | U | 0.500 | 0.500 | r |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.500 | U | 0.500 | 0.500 | r |
| 108-88-3 | Toluene | 6.46 | | 0.500 | 0.500 | r |
| 591-78-6 | 2-Hexanone(MBK) | 0.500 | U | 0.500 | 0.500 | r |
| 127-18-4 | Tetrachloroethene | 172 | | 0.500 | 0.500 | r |
| 108-90-7 | Chlorobenzene | 0.500 | U | 0.500 | 0.500 | r |
| 100-41-4 | Ethylbenzene | 0.871 | | 0.500 | 0.500 | r |
| 179601-23-1 | m,p-Xylene | 3.21 | | 1.00 | 1.00 | r |
| 100-42-5 | Styrene | 0.500 | U | 0.500 | 0.500 | r |
| 95-47-6 | o-Xylene | 1.26 | | 0.500 | 0.500 | r |
| 98-82-8 | Isopropylbenzene | 0.500 | U | 0.500 | 0.500 | 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: 91147 dup

Client: GC-ENV Lab: Phoenix Env. Labs

SDG No.: GCH92051 Lab Sample ID: CH91147 DUP

Canister: 11287 Lab File ID: 0405_41.D

Instrument: CHEM24 Column: RTX-VMS Date Received: 04/02/21

Purge Volume 200 (cc) Date Analyzed: 04/06/21

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

| CAS NO. | COMPOUND | CONC. | Q | MDL | PQL | R |
|---|---|---|---|---|---|---|
| 622-96-8 | 4-Ethyltoluene | 0.500 | U | 0.500 | 0.500 | r |
| 108-67-8 | 1,3,5-Trimethylbenzene | 0.500 | U | 0.500 | 0.500 | r |
| 95-63-6 | 1,2,4-Trimethylbenzene | 0.500 | U | 0.500 | 0.500 | r |
| 76-14-2 | 1,2-Dichlorotetrafluoroethane(sim) | 0.500 | U | 0.500 | 0.500 | r |
| 75-01-4 | Vinyl Chloride(sim) | 0.500 | U | 0.500 | 0.500 | r |
| 74-83-9 | Bromomethane(sim) | 0.500 | U | 0.500 | 0.500 | r |
| 71-43-2 | Benzene(sim) | 0.500 | U | 0.500 | 0.500 | r |
| 56-23-5 | Carbon Tetrachloride(sim) | 0.500 | U | 0.500 | 0.500 | r |
| 76-13-1 | Trichlorotrifluoroethane(sim) | 0.500 | U | 0.500 | 0.500 | r |
| 75-34-3 | 1,1-Dichloroethane(sim) | 0.500 | U | 0.500 | 0.500 | r |
| 107-06-2 | 1,2-Dichloroethane(sim) | 0.500 | U | 0.500 | 0.500 | r |
| 78-87-5 | 1,2-dichloropropane(sim) | 0.500 | U | 0.500 | 0.500 | r |
| 75-27-4 | Bromodichloromethane(sim) | 0.400 | U | 0.400 | 0.400 | r |
| 123-91-1 | 1,4-Dioxane(sim) | 0.500 | U | 0.500 | 0.500 | r |
| 10061-01-5 | cis-1,3-Dichloropropene(sim) | 0.500 | U | 0.500 | 0.500 | r |
| 79-00-5 | 1,1,2-Trichloroethane(sim) | 0.500 | U | 0.500 | 0.500 | r |
| 124-48-1 | Dibromochloromethane(sim) | 0.500 | U | 0.500 | 0.500 | r |
| 106-93-4 | 1,2-Dibromoethane(EDB)(sim) | 0.500 | U | 0.500 | 0.500 | r |
| 75-25-2 | Bromoform(sim) | 0.500 | U | 0.500 | 0.500 | r |
| 630-20-6 | 1,1,1,2-Tetrachloroethane(sim) | 0.500 | U | 0.500 | 0.500 | r |
| 79-34-5 | 1,1,2,2-Tetrachloroethane(sim) | 0.500 | U | 0.500 | 0.500 | r |
| 100-44-7 | Benzyl chloride(sim) | 0.500 | U | 0.500 | 0.500 | r |
| 541-73-1 | 1,3-Dichlorobenzene(sim) | 0.500 | U | 0.500 | 0.500 | r |
| 106-46-7 | 1,4-Dichlorobenzene(sim) | 0.500 | U | 0.500 | 0.500 | r |
| 135-98-8 | sec-Butylbenzene(sim) | 0.500 | U | 0.500 | 0.500 | r |
| 99-87-6 | 4-Isopropyltoluene(sim) | 0.500 | U | 0.500 | 0.500 | r |
| 95-50-1 | 1,2-Dichlorobenzene(sim) | 0.500 | U | 0.500 | 0.500 | r |
| 104-51-8 | n-Butylbenzene(sim) | 0.500 | U | 0.500 | 0.500 | r |
| 120-82-1 | 1,2,4-Trichlorobenzene(sim) | 0.500 | U | 0.500 | 0.500 | r |
| 87-68-3 | Hexachlorobutadiene(sim) | 0.500 | U | 0.500 | 0.500 | r |
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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:\AIR2021\CHEM24\04APR\05\
Data File : 0405_41.D
Acq On : 6 Apr 2021 3:05 pm
Operator : Keith
Client ID : 91147 dup
Lab ID : CH91147 DUP
ALS Vial : 39 Sample Multiplier: 1

Quant Time: Apr 06 15:36:59 2021
Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 26 09:02:26 2021
Response via : Initial Calibration

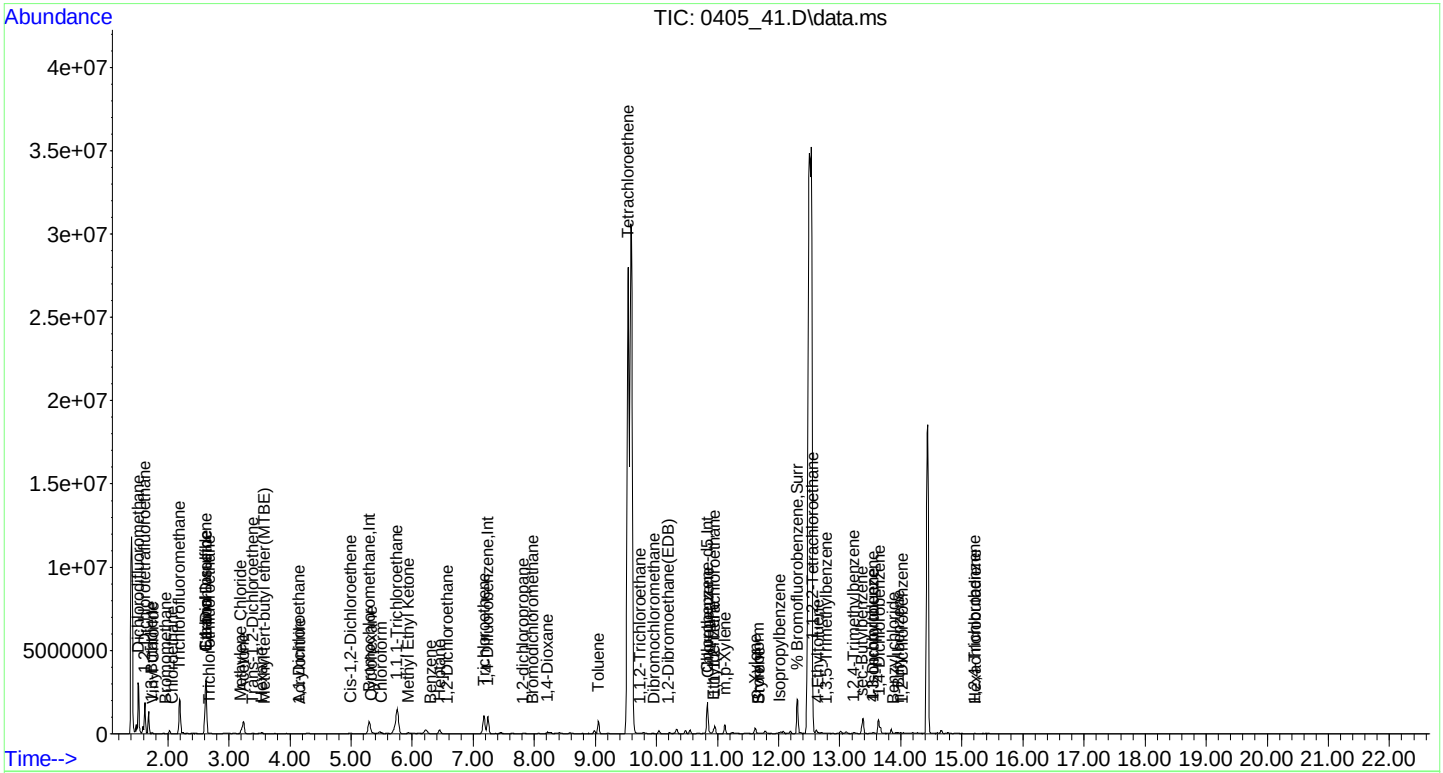
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Bromochloromethane | 5.296 | 130 | 293903 | 10.000 | ng | 0.03 |
| 36) 1,4-Difluorobenzene | 7.240 | 114 | 924640 | 10.000 | ng | 0.02 |
| 53) Chlorobenzene-d5 | 10.831 | 82 | 464767 | 10.000 | ng | 0.02 |
| 80) Bromochloromethane(sim) | 5.299 | 130 | 303751 | 10.000 | ng | # 0.03 |
| 95) 1,4-Difluorobenzene(sim) | 7.240 | 114 | 924640 | 10.000 | ng | 0.02 |
| 105) Chlorobenzene-d5(sim) | 10.831 | 82 | 464767 | 10.000 | ng | 0.02 |
| System Monitoring Compounds | | | | | | |
| 62) % Bromofluorobenzene | 12.305 | 95 | 624105 | 9.682 | ppbv | 0.00 |
| Spiked Amount 10.000 | Range 70 - 130 | | Recovery = | 96.80% | | |
| Target Compounds | | | | | | Qvalue |
| 3) Dichlorodifluoromethane | 1.513 | 85 | 83632 | 1.558 | ppbv | 99 |
| 5) 1,2-Dichlorotetrafluor... | 1.622 | 135 | 8377 | 0.177 | ppbv# | 89 |
| 10) Ethanol | 2.622 | 45 | 3576443 | 273.882 | ppbv | 96 |
| 12) Acetone | 3.238 | 43 | 1040131 | 13.767 | ppbv | 99 |
| 13) Trichlorofluoromethane | 2.191 | 101 | 1330727 | 17.660 | ppbv | 100 |
| 16) 1,1-Dichloroethene | 2.622 | 61 | 13781 | 0.304 | ppbv | 99 |
| 17) Methylene Chloride | 3.190 | 49 | 15598 | 0.334 | ppbv | 96 |
| 20) Carbon Disulfide | 2.629 | 76 | 164491m | 2.836 | ppbv | 99 |
| 22) Trans-1,2-Dichloroethene | 3.388 | 61 | 16011 | 0.405 | ppbv | 99 |
| 25) Methyl Ethyl Ketone | 5.937 | 43 | 128174 | 1.645 | ppbv | 98 |
| 26) Cis-1,2-Dichloroethene | 4.992 | 61 | 50091 | 1.183 | ppbv | 96 |
| 27) Hexane | 3.539 | 57 | 27105 | 0.517 | ppbv# | 78 |
| 28) Chloroform | 5.498 | 83 | 42787 | 0.766 | ppbv# | 64 |
| 32) 1,1,1-Trichloroethane | 5.750 | 97 | 1263140 | 20.631 | ppbv | 94 |
| 35) Cyclohexane | 5.332 | 56 | 52679 | 1.279 | ppbv | 91 |
| 39) Trichloroethene | 7.179 | 130 | 321381 | 8.648 | ppbv | 98 |
| 43) Heptane | 6.446 | 43 | 165890 | 2.513 | ppbv | 97 |
| 48) Toluene | 9.048 | 91 | 486694 | 6.460 | ppbv | 100 |
| 52) Tetrachloroethene | 9.532 | 166 | 7758052 | 172.035 | ppbv | 96 |
| 56) Ethylbenzene | 10.934 | 91 | 101563 | 0.871 | ppbv | 99 |
| 57) m,p-Xylene | 11.120 | 91 | 281343 | 3.208 | ppbv | 99 |
| 61) o-Xylene | 11.614 | 91 | 110709 | 1.263 | ppbv | 100 |
| 66) 4-Ethyltoluene | 12.648 | 105 | 32594 | 0.251 | ppbv# | 92 |
| 68) 1,2,4-Trimethylbenzene | 13.232 | 105 | 27399 | 0.271 | ppbv# | 98 |
| 84] Trichlorofluoromethane... | 2.194 | 101 | 1396883 | 16.172 | ppbv | 100 |
| 85] 1,1,1-Trichloroethane(... | 5.750 | 97 | 1264165 | 19.742 | ppbv# | 94 |
| 92] Cis-1,2-Dichloroethene... | 4.990 | 61 | 57841 | 1.260 | ppbv | 96 |
| 93] Chloroform(sim) | 5.498 | 83 | 42787 | 0.713 | ppbv# | 64 |
| 98] Trichloroethene(sim) | 7.182 | 130 | 344813 | 8.304 | ppbv | 100 |
| 104] Tetrachloroethene(sim) | 9.535 | 166 | 7968072 | 164.789 | ppbv | 97 |
| 108] Ethylbenzene(sim) | 10.937 | 91 | 108736 | 0.856 | ppb | 99 |
| 109] m,p-Xylene(sim) | 11.120 | 91 | 281441 | 3.252 | ppbv | 99 |
| 110] o-Xylene(sim) | 11.617 | 91 | 120908 | 1.336 | ppb | 99 |

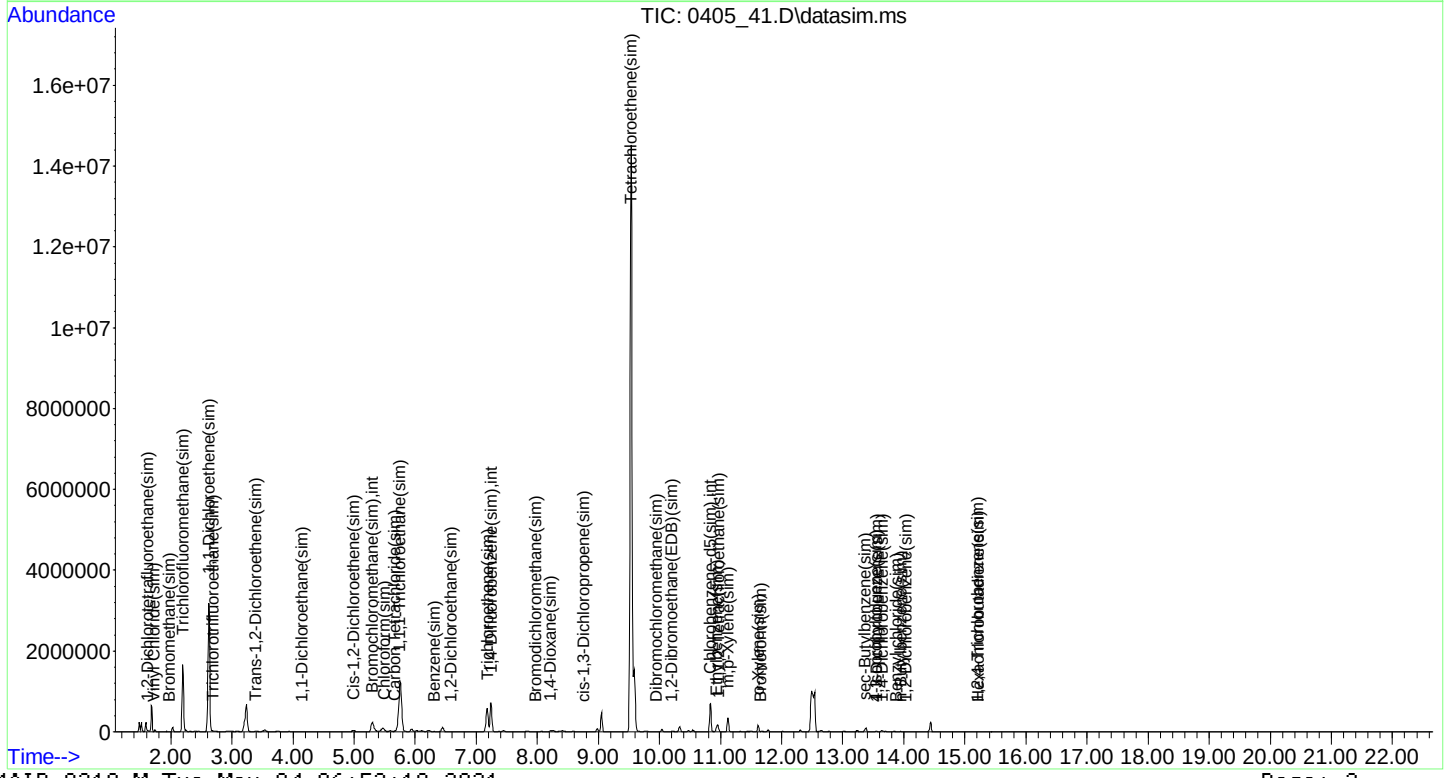
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

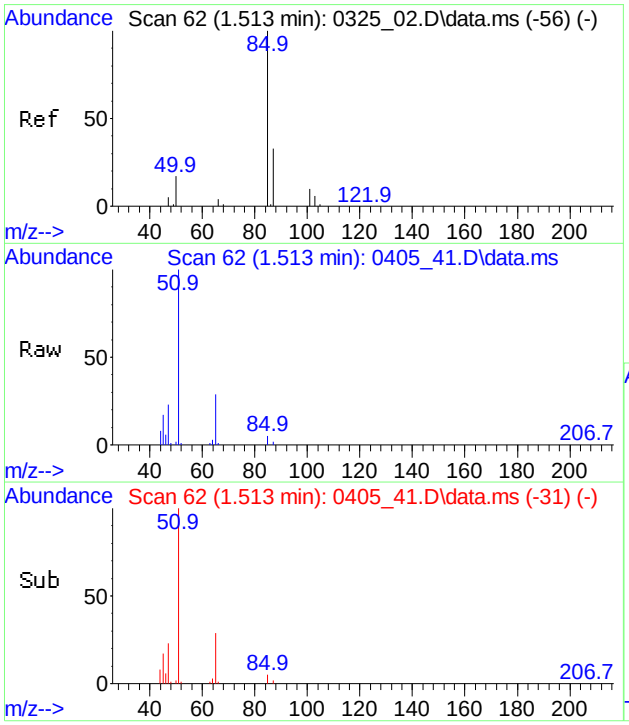
Quantitation Report (QT Reviewed)

Data Path : H:\AIR2021\CHEM24\04APR\05\
Data File : 0405_41.D
Acq On : 6 Apr 2021 3:05 pm
Operator : Keith
Client ID : 91147 dup
Lab ID : CH91147 DUP
ALS Vial : 39 Sample Multiplier: 1

Quant Time: Apr 06 15:36:59 2021
Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 26 09:02:26 2021
Response via : Initial Calibration



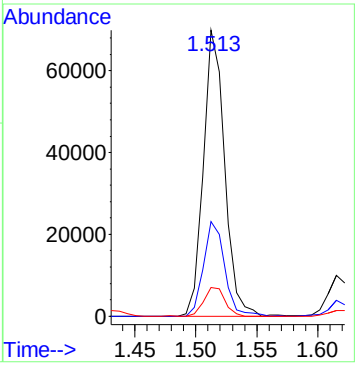



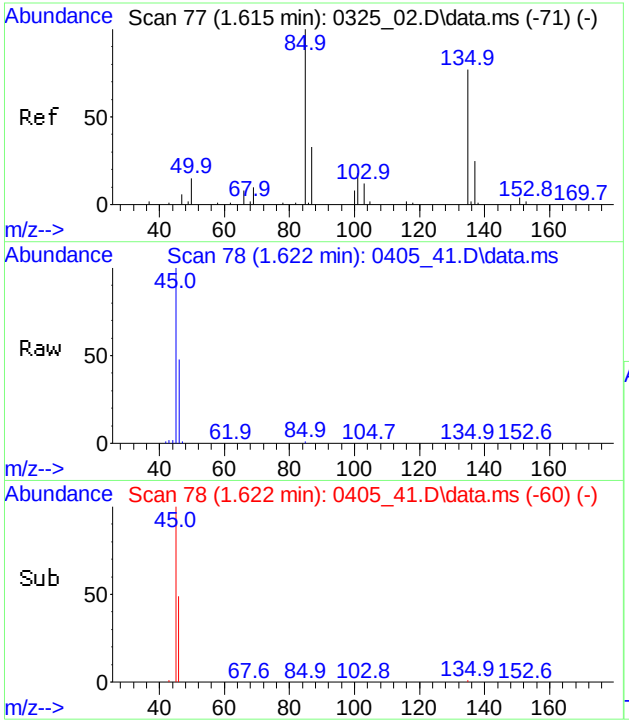



#3
Dichlorodifluoromethane
Conc: 8$ 1.558 ppbv
RT: 1.513 min Scan# 62
Delta R.T. 0.014 min
Lab File: 0405_41.D
Acq: 6 Apr 2021 3:05 pm

Tgt Ion: 85 Resp: 83632

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 32.9 | 26.6 | 40.0 |
| 101 | 9.9 | 7.9 | 11.9 |

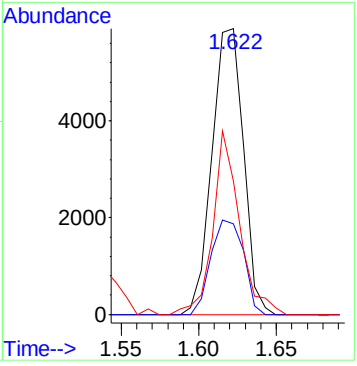


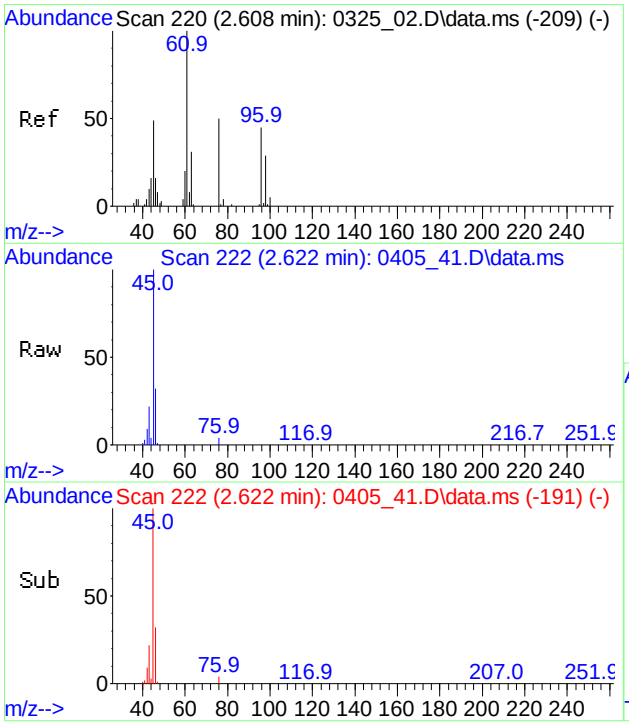




#5
1,2-Dichlorotetrafluoroethane
Conc: 8$ 0.177 ppbv
RT: 1.622 min Scan# 78
Delta R.T. 0.021 min
Lab File: 0405_41.D
Acq: 6 Apr 2021 3:05 pm

Tgt Ion:135 Resp: 8377

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 135 | 100 | | |
| 137 | 34.2 | 25.8 | 38.8 |
| 87 | 54.0 | 34.8 | 52.2# |

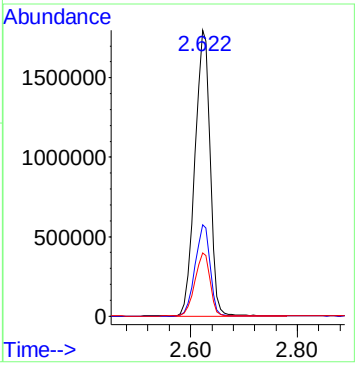


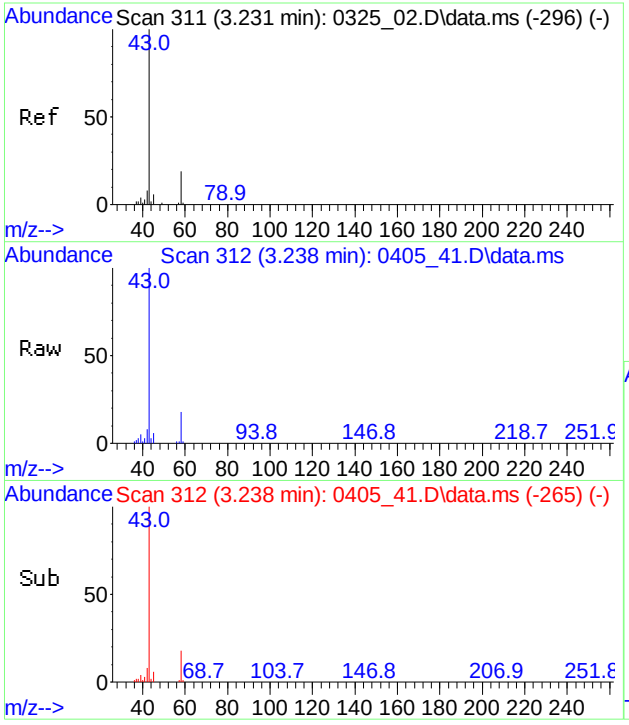



#10
Ethanol
Conc: 8$ 273.882 ppbv
RT: 2.622 min Scan# 222
Delta R.T. 0.027 min
Lab File: 0405_41.D
Acq: 6 Apr 2021 3:05 pm

Tgt Ion: 45 Resp: 3576443

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 31.7 | 27.8 | 41.6 |
| 43 | 22.3 | 17.3 | 25.9 |

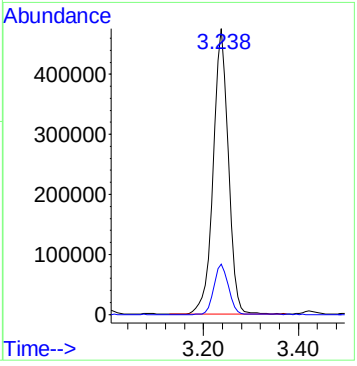


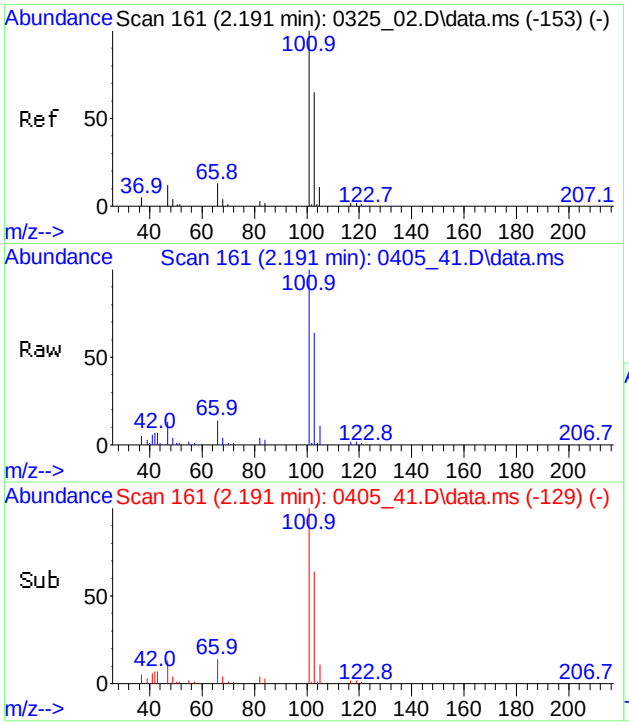




#12
Acetone
Conc: 8$ 13.767 ppbv
RT: 3.238 min Scan# 312
Delta R.T. 0.021 min
Lab File: 0405_41.D
Acq: 6 Apr 2021 3:05 pm

Tgt Ion: 43 Resp: 1040131

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 16.9 | 13.2 | 19.8 |

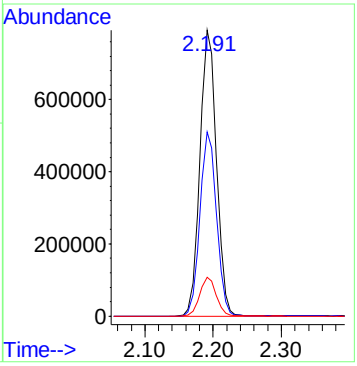


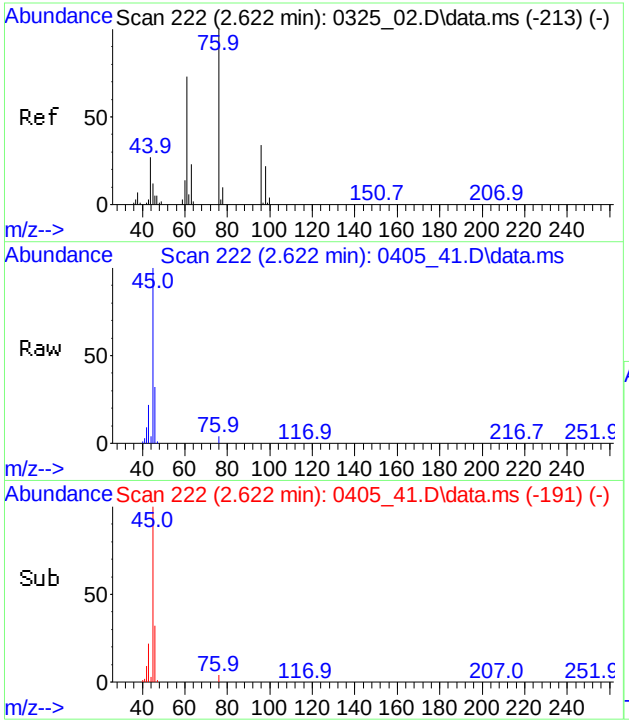



#13
Trichlorofluoromethane
Conc: 8$ 17.660 ppbv
RT: 2.191 min Scan# 161
Delta R.T. 0.021 min
Lab File: 0405_41.D
Acq: 6 Apr 2021 3:05 pm

Tgt Ion:101 Resp: 1330727

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 64.4 | 51.5 | 77.3 |
| 66 | 13.5 | 10.6 | 15.8 |

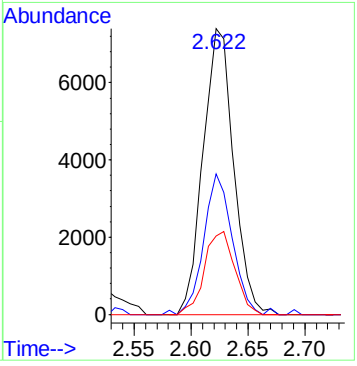


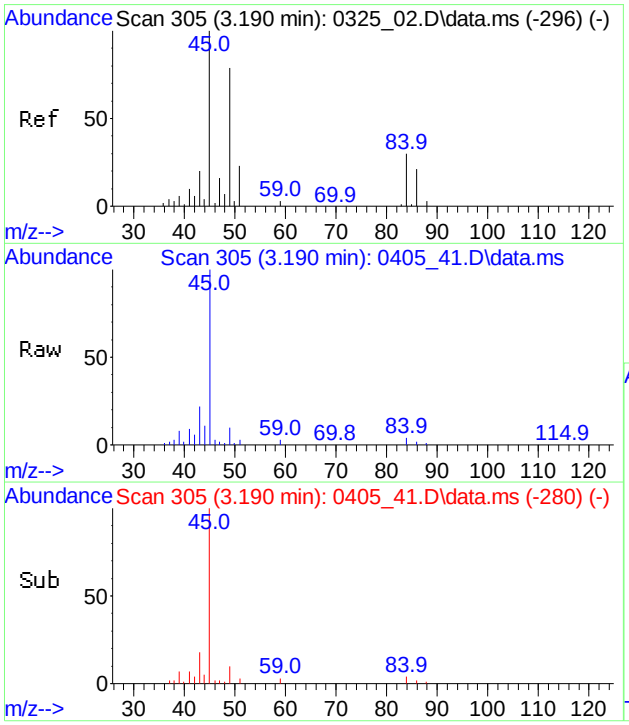




#16
1,1-Dichloroethene
Conc: 8$ 0.304 ppbv
RT: 2.622 min Scan# 222
Delta R.T. 0.021 min
Lab File: 0405_41.D
Acq: 6 Apr 2021 3:05 pm

Tgt Ion: 61 Resp: 13781

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 61 | 100 | | |
| 96 | 45.7 | 37.2 | 55.8 |
| 98 | 29.0 | 24.0 | 36.0 |

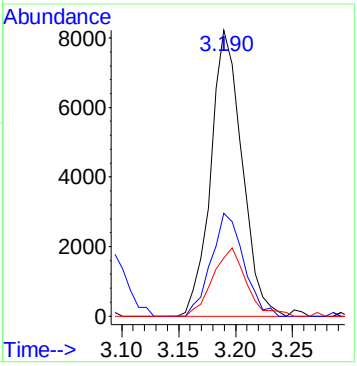


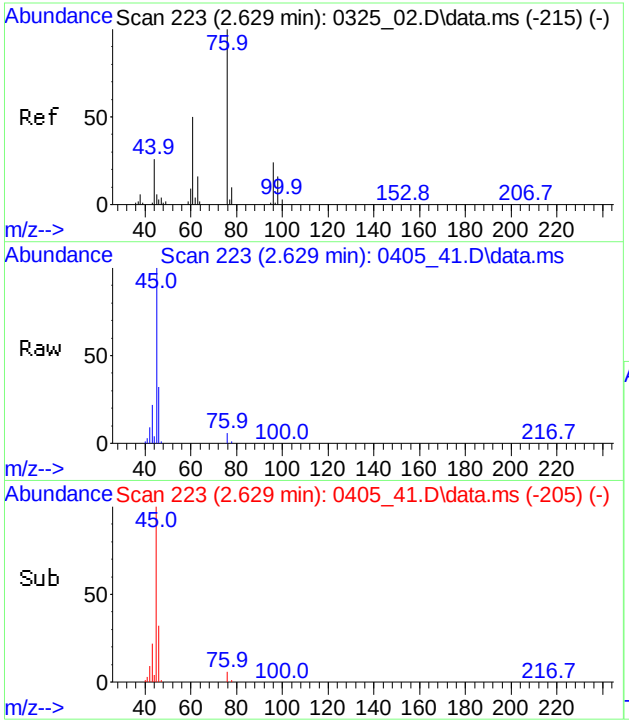



#17
Methylene Chloride
Conc: 8$ 0.334 ppbv
RT: 3.190 min Scan# 305
Delta R.T. 0.021 min
Lab File: 0405_41.D
Acq: 6 Apr 2021 3:05 pm

Tgt Ion: 49 Resp: 15598

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 84 | 37.5 | 32.4 | 48.6 |
| 86 | 25.5 | 21.0 | 31.6 |

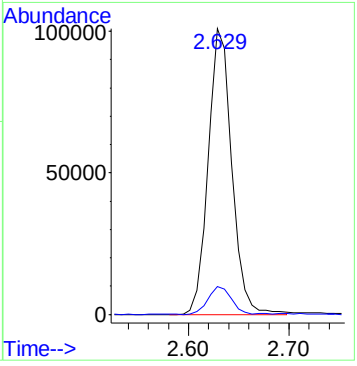


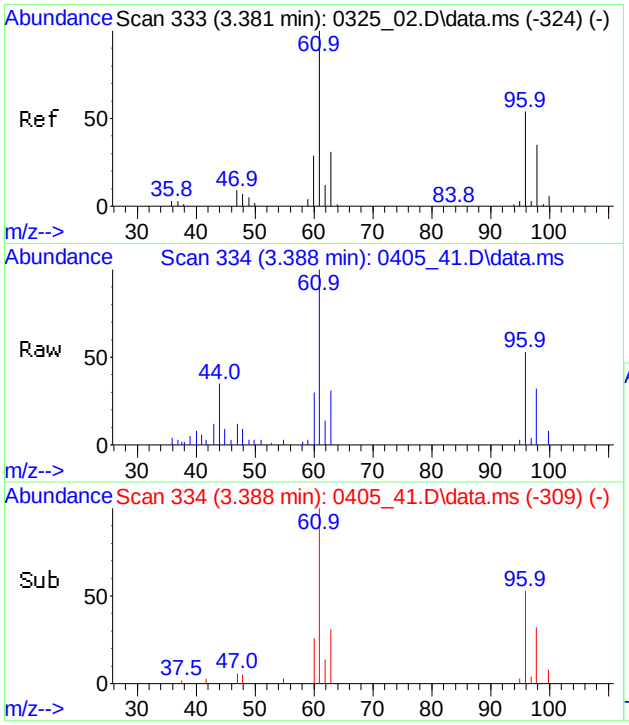




#20
Carbon Disulfide
Conc: 8$ 2.836 ppbv
RT: 2.629 min Scan# 223
Delta R.T. 0.021 min
Lab File: 0405_41.D
Acq: 6 Apr 2021 3:05 pm

Tgt Ion: 76 Resp: 164491

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 9.9 | 7.7 | 11.5 |

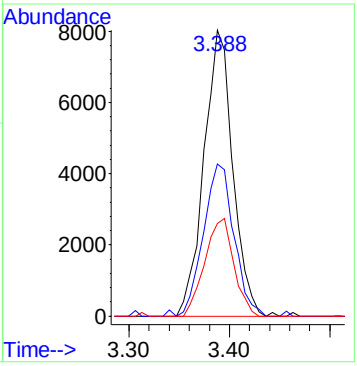


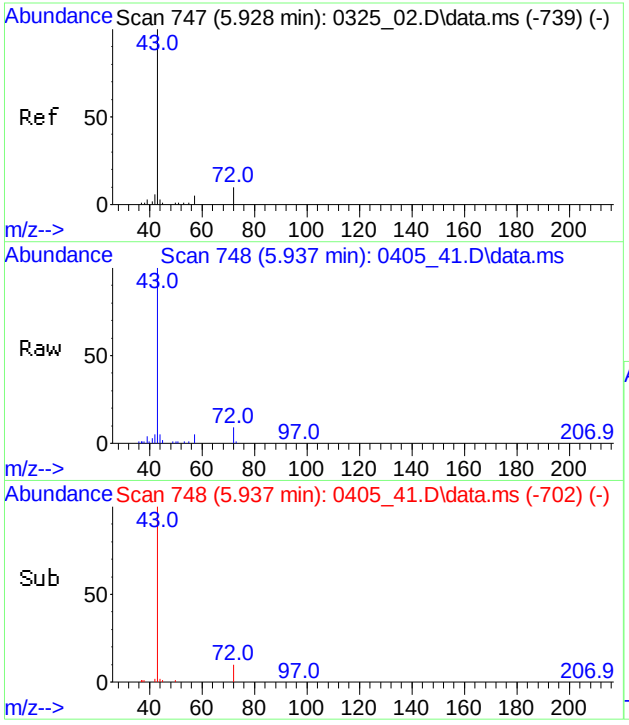



#22
Trans-1,2-Dichloroethene
Conc: 8$ 0.405 ppbv
RT: 3.388 min Scan# 334
Delta R.T. 0.020 min
Lab File: 0405_41.D
Acq: 6 Apr 2021 3:05 pm

Tgt Ion: 61 Resp: 16011

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 61 | 100 | | |
| 96 | 56.4 | 44.7 | 67.1 |
| 98 | 34.2 | 28.6 | 42.8 |

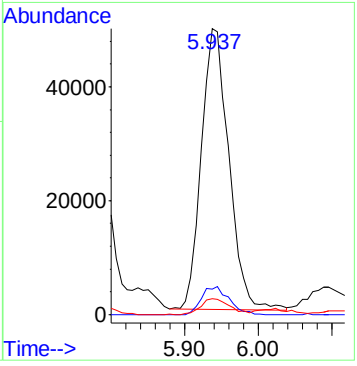


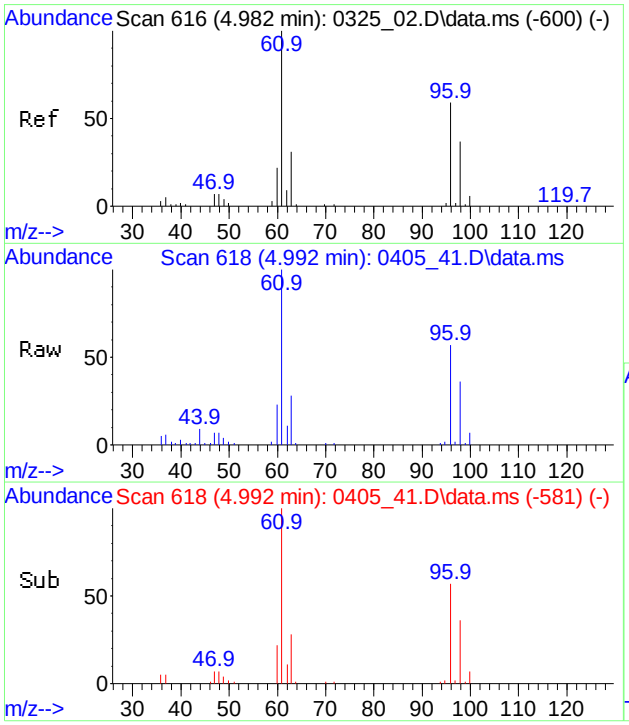




#25
Methyl Ethyl Ketone
Conc: 8$ 1.645 ppbv
RT: 5.937 min Scan# 748
Delta R.T. 0.031 min
Lab File: 0405_41.D
Acq: 6 Apr 2021 3:05 pm

Tgt Ion: 43 Resp: 128174

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 9.9 | 8.5 | 12.7 |
| 57 | 5.8 | 4.2 | 6.4 |

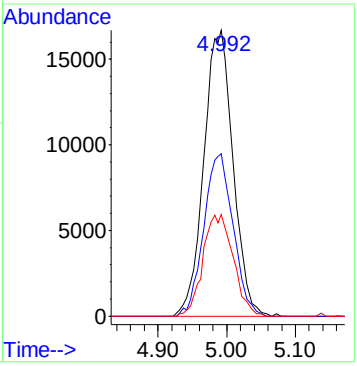


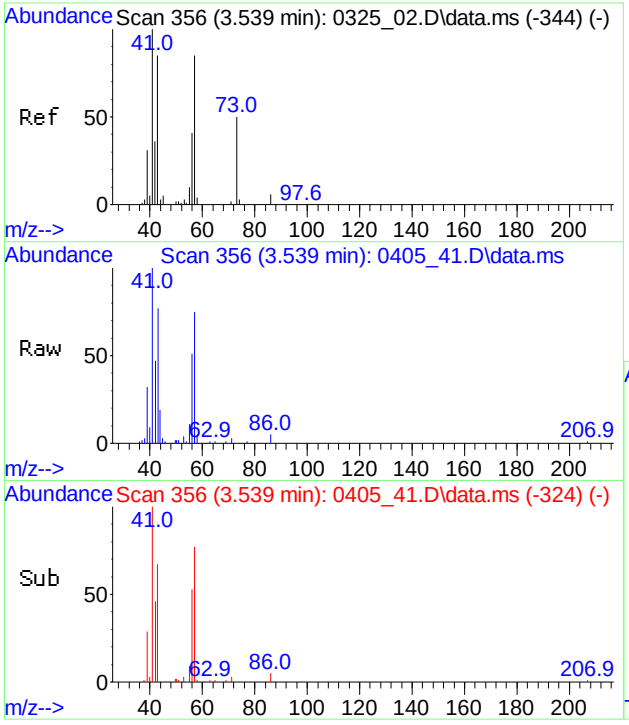



#26
Cis-1,2-Dichloroethene
Conc: 8$ 1.183 ppbv
RT: 4.992 min Scan# 618
Delta R.T. 0.035 min
Lab File: 0405_41.D
Acq: 6 Apr 2021 3:05 pm

Tgt Ion: 61 Resp: 50091

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 61 | 100 | | |
| 96 | 56.2 | 48.0 | 72.0 |
| 98 | 36.4 | 29.7 | 44.5 |

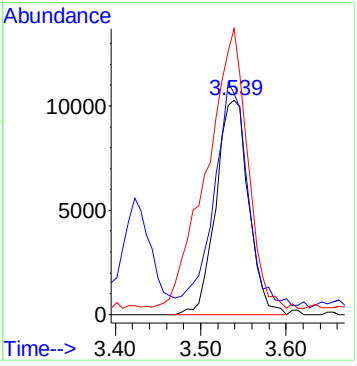


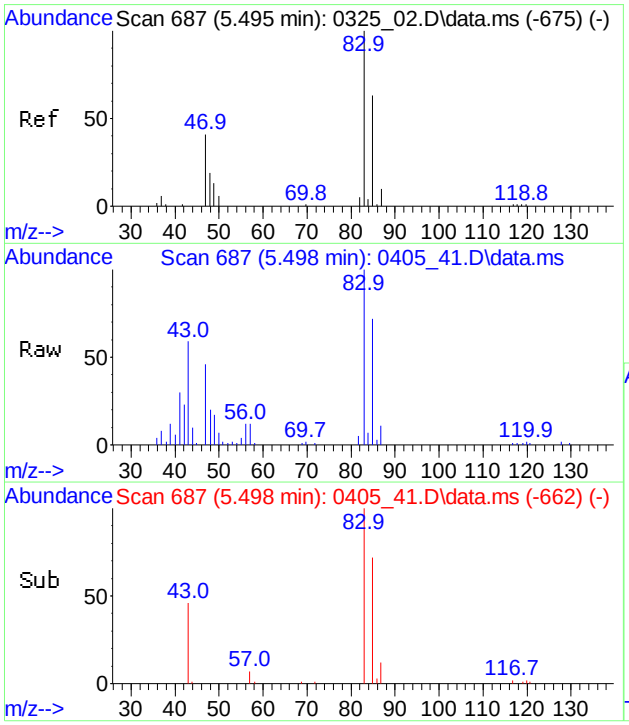




#27
Hexane
Conc: 8$ 0.517 ppbv
RT: 3.539 min Scan# 356
Delta R.T. 0.021 min
Lab File: 0405_41.D
Acq: 6 Apr 2021 3:05 pm

Tgt Ion: 57 Resp: 27105

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 43 | 105.4 | 83.3 | 124.9 |
| 41 | 163.5 | 95.6 | 143.4# |

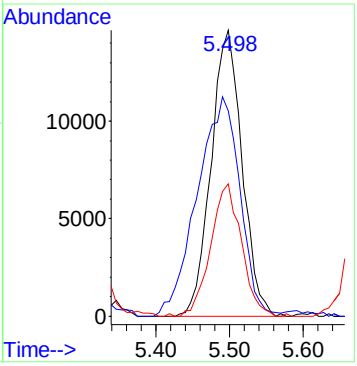


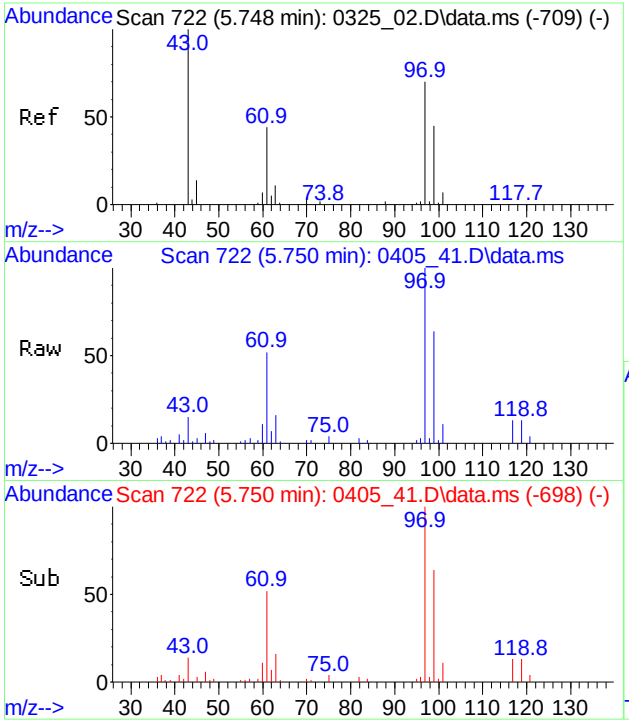



#28
Chloroform
Conc: 8$ 0.766 ppbv
RT: 5.498 min Scan# 687
Delta R.T. 0.032 min
Lab File: 0405_41.D
Acq: 6 Apr 2021 3:05 pm

Tgt Ion: 83 Resp: 42787

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 105.6 | 44.4 | 84.4# |
| 47 | 45.9 | 20.0 | 60.0 |

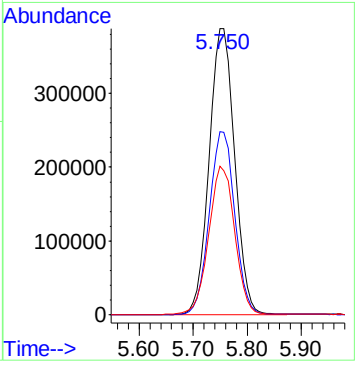


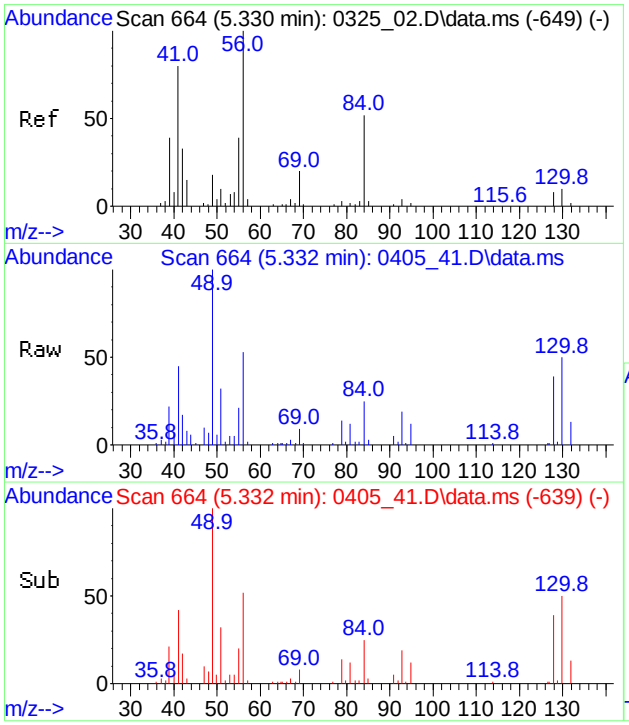




#32
1,1,1-Trichloroethane
Conc: 8$ 20.631 ppbv
RT: 5.750 min Scan# 722
Delta R.T. 0.024 min
Lab File: 0405_41.D
Acq: 6 Apr 2021 3:05 pm

Tgt Ion: 97 Resp: 1263140

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 63.9 | 51.3 | 76.9 |
| 61 | 53.0 | 50.1 | 75.1 |

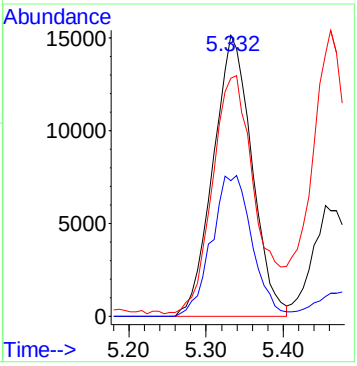


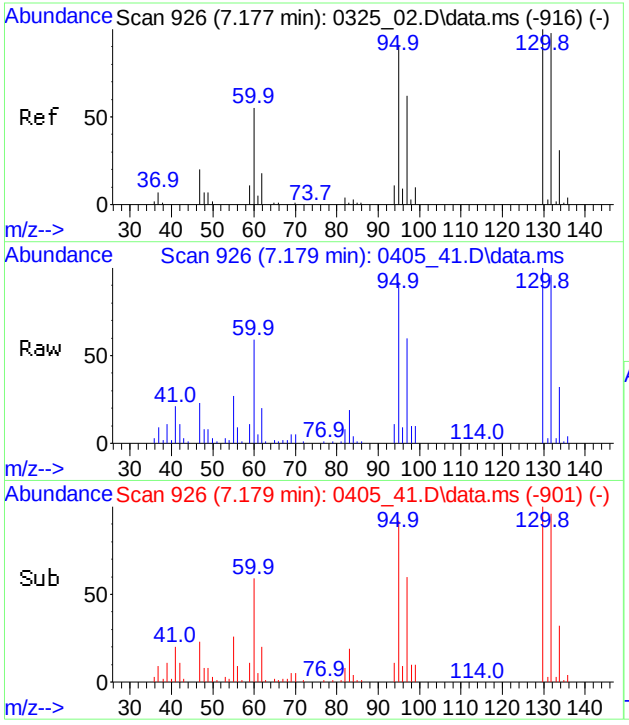



#35
Cyclohexane
Conc: 8$ 1.279 ppbv
RT: 5.332 min Scan# 664
Delta R.T. 0.031 min
Lab File: 0405_41.D
Acq: 6 Apr 2021 3:05 pm

Tgt Ion: 56 Resp: 52679

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 84 | 51.9 | 42.2 | 63.4 |
| 41 | 92.6 | 64.1 | 96.1 |

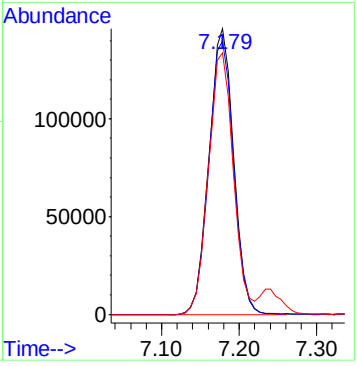


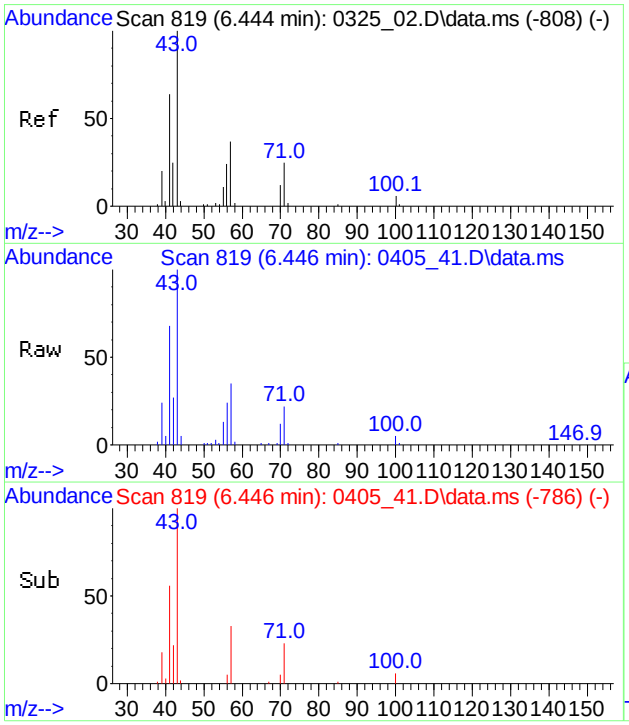




#39
Trichloroethene
Conc: 8$ 8.648 ppbv
RT: 7.179 min Scan# 926
Delta R.T. 0.023 min
Lab File: 0405_41.D
Acq: 6 Apr 2021 3:05 pm

Tgt Ion:130 Resp: 321381

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 132 | 97.1 | 76.6 | 115.0 |
| 95 | 92.9 | 72.3 | 108.5 |

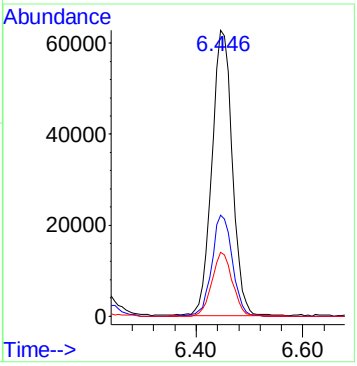


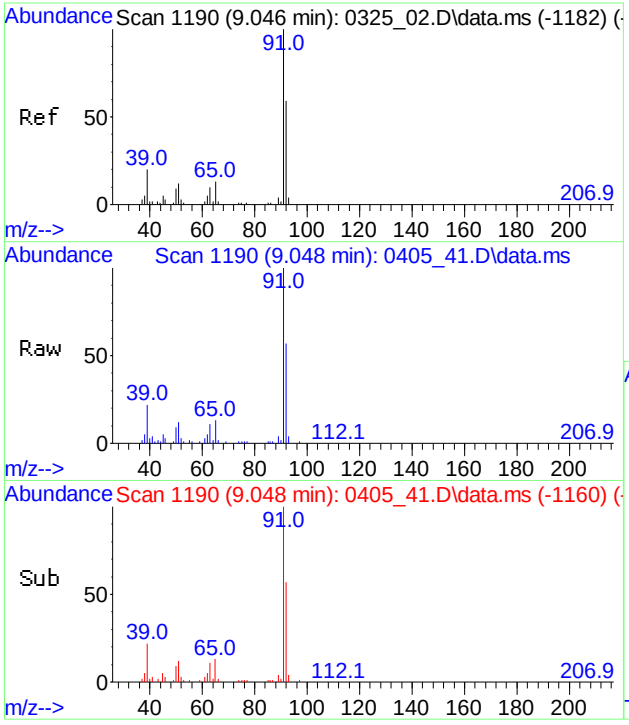



#43
Heptane
Conc: 8$ 2.513 ppbv
RT: 6.446 min Scan# 819
Delta R.T. 0.023 min
Lab File: 0405_41.D
Acq: 6 Apr 2021 3:05 pm

Tgt Ion: 43 Resp: 165890

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 57 | 35.7 | 29.5 | 44.3 |
| 71 | 22.4 | 19.8 | 29.8 |

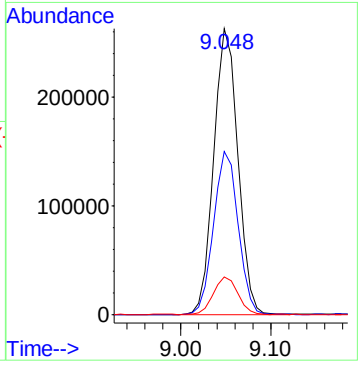


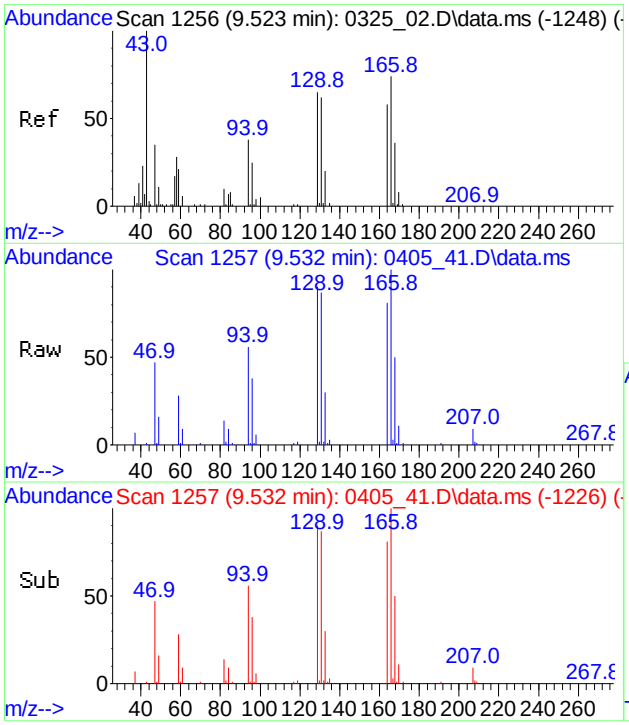




#48
Toluene
Conc: 8$ 6.460 ppbv
RT: 9.048 min Scan# 1190
Delta R.T. 0.016 min
Lab File: 0405_41.D
Acq: 6 Apr 2021 3:05 pm

Tgt Ion: 91 Resp: 486694

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 58.0 | 46.3 | 69.5 |
| 65 | 13.3 | 10.1 | 15.1 |

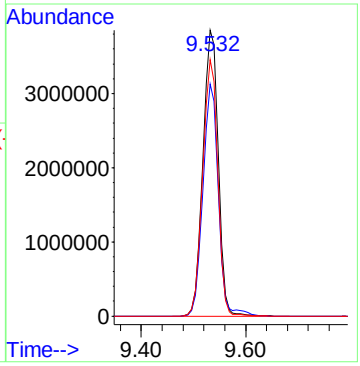


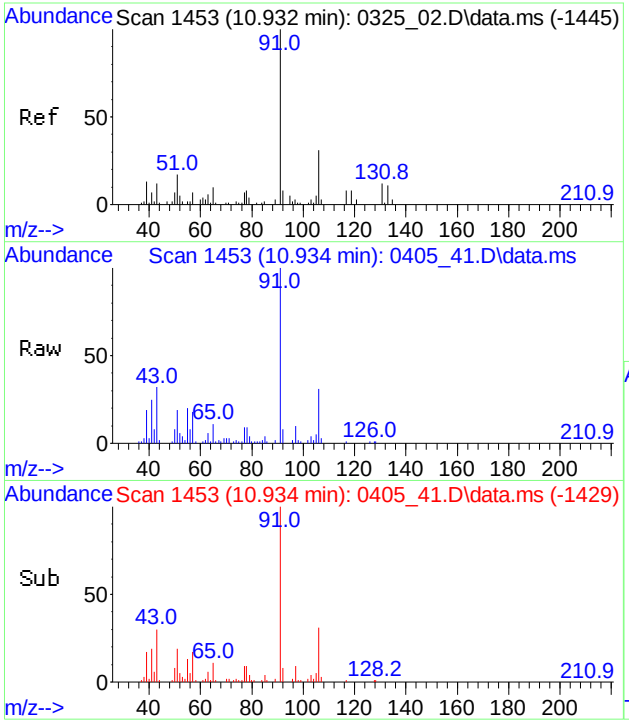



#52
Tetrachloroethene
Conc: 8$ 172.035 ppbv
RT: 9.532 min Scan# 1257
Delta R.T. 0.024 min
Lab File: 0405_41.D
Acq: 6 Apr 2021 3:05 pm

Tgt Ion:166 Resp: 7758052

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 164 | 81.6 | 62.2 | 93.4 |
| 129 | 88.3 | 68.3 | 102.5 |

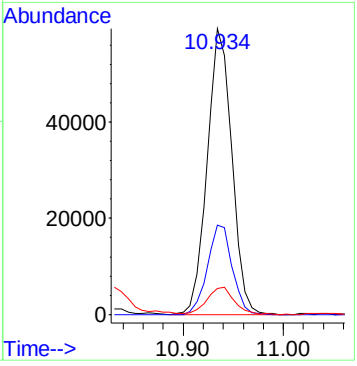


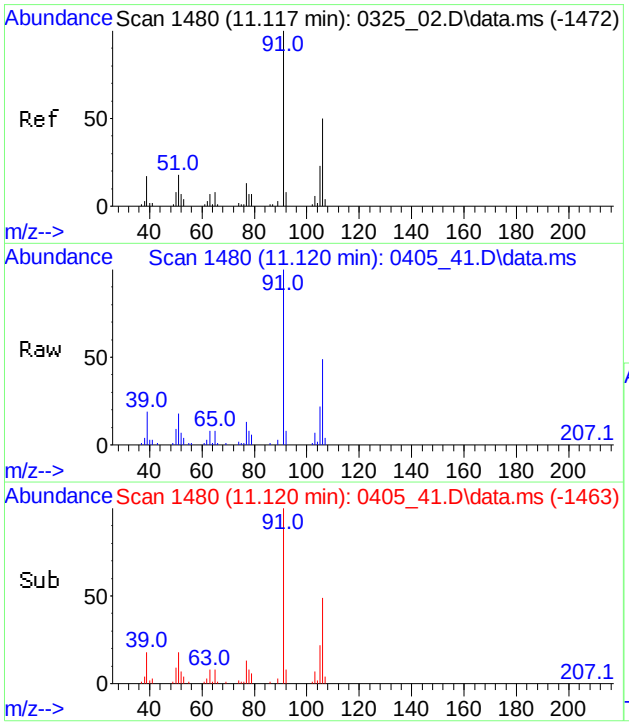




#56
Ethylbenzene
Conc: 8$ 0.871 ppbv
RT: 10.934 min Scan# 1453
Delta R.T. 0.016 min
Lab File: 0405_41.D
Acq: 6 Apr 2021 3:05 pm

Tgt Ion: 91 Resp: 101563

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 31.3 | 11.4 | 51.4 |
| 77 | 10.7 | 0.0 | 28.7 |

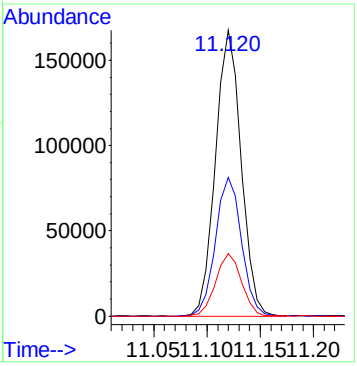


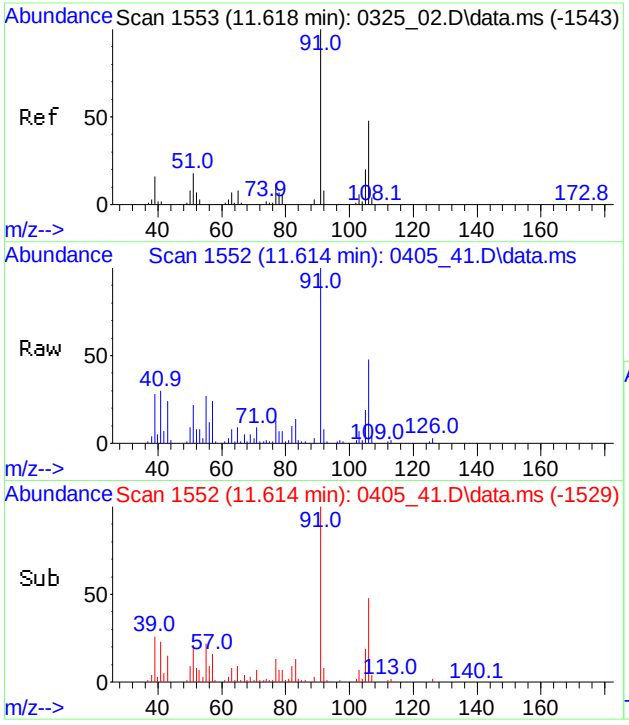



#57
m,p-Xylene
Conc: 8$ 3.208 ppbv
RT: 11.120 min Scan# 1480
Delta R.T. 0.016 min
Lab File: 0405_41.D
Acq: 6 Apr 2021 3:05 pm

Tgt Ion: 91 Resp: 281343

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 49.2 | 39.8 | 59.8 |
| 105 | 22.1 | 18.2 | 27.4 |

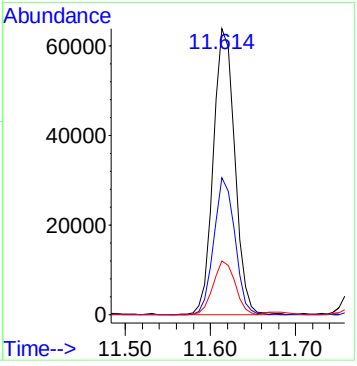


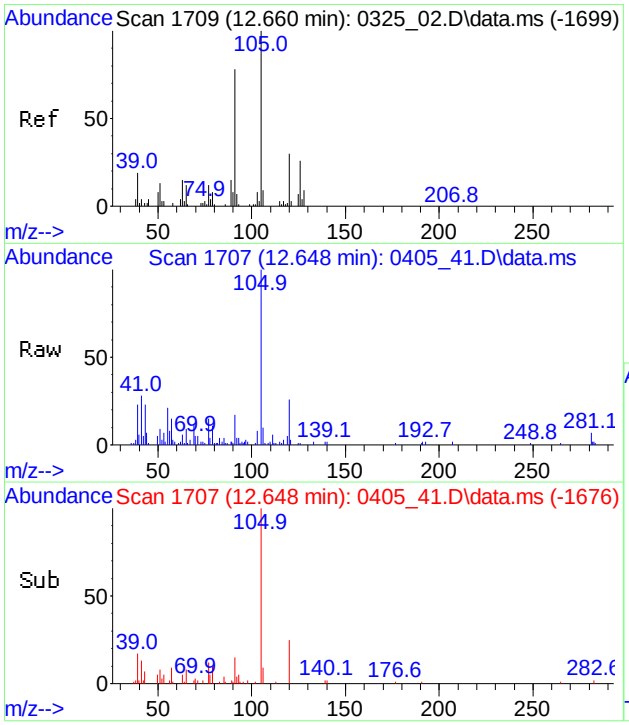




#61
o-Xylene
Conc: 8$ 1.263 ppbv
RT: 11.614 min Scan# 1552
Delta R.T. 0.010 min
Lab File: 0405_41.D
Acq: 6 Apr 2021 3:05 pm

Tgt Ion: 91 Resp: 110709

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 46.8 | 37.5 | 56.3 |
| 105 | 19.1 | 15.1 | 22.7 |

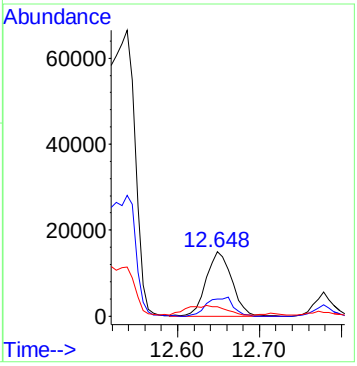


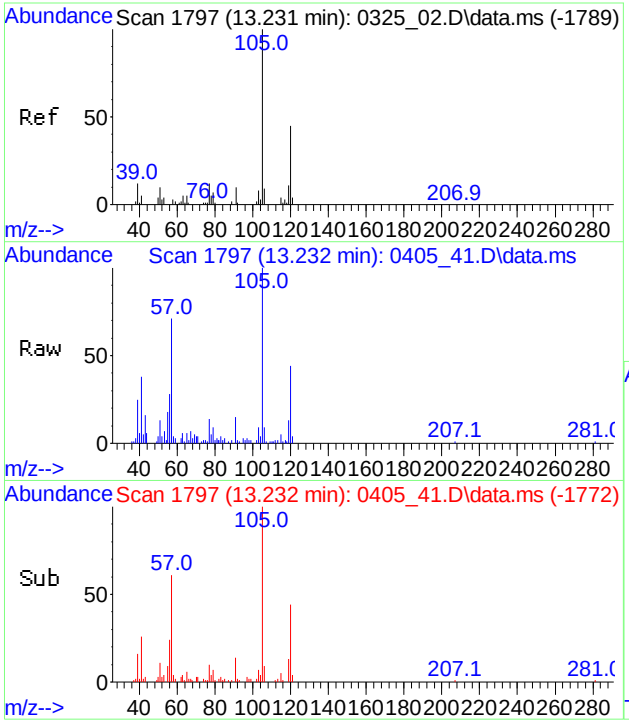



#66
4-Ethyltoluene
Conc: 8$ 0.251 ppbv
RT: 12.648 min Scan# 1707
Delta R.T. 0.002 min
Lab File: 0405_41.D
Acq: 6 Apr 2021 3:05 pm

Tgt Ion:105 Resp: 32594

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 29.9 | 24.0 | 36.0 |
| 77 | 22.4 | 9.2 | 13.8# |

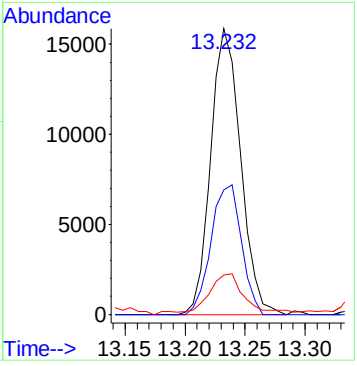


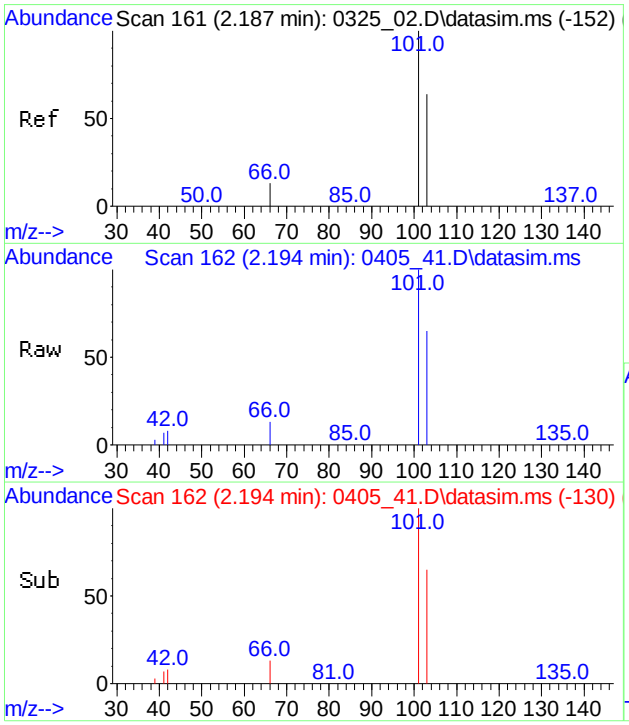




#68
1,2,4-Trimethylbenzene
Conc: 8$ 0.271 ppbv
RT: 13.232 min Scan# 1797
Delta R.T. 0.015 min
Lab File: 0405_41.D
Acq: 6 Apr 2021 3:05 pm

Tgt Ion:105 Resp: 27399

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 46.0 | 36.7 | 55.1 |
| 77 | 15.2 | 10.0 | 15.0# |

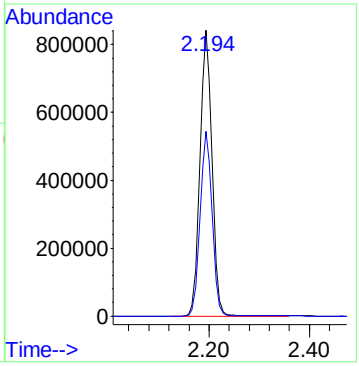


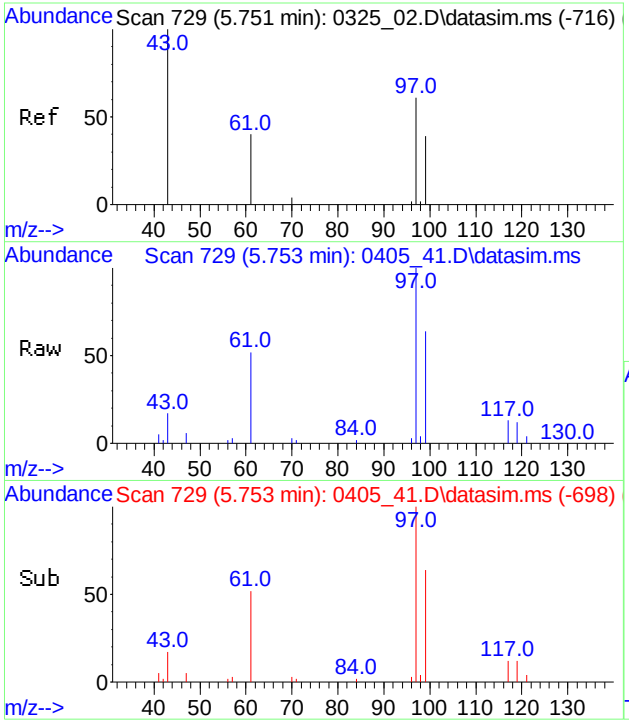



#84
Trichlorofluoromethane(sim)
Conc: 8$ 16.172 ppbv
RT: 2.194 min Scan# 162
Delta R.T. 0.021 min
Lab File: 0405_41.D
Acq: 6 Apr 2021 3:05 pm

Tgt Ion:101 Resp: 1396883

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 64.6 | 51.9 | 77.9 |

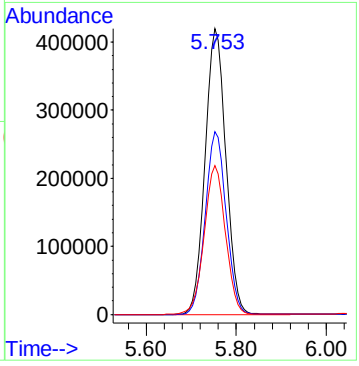


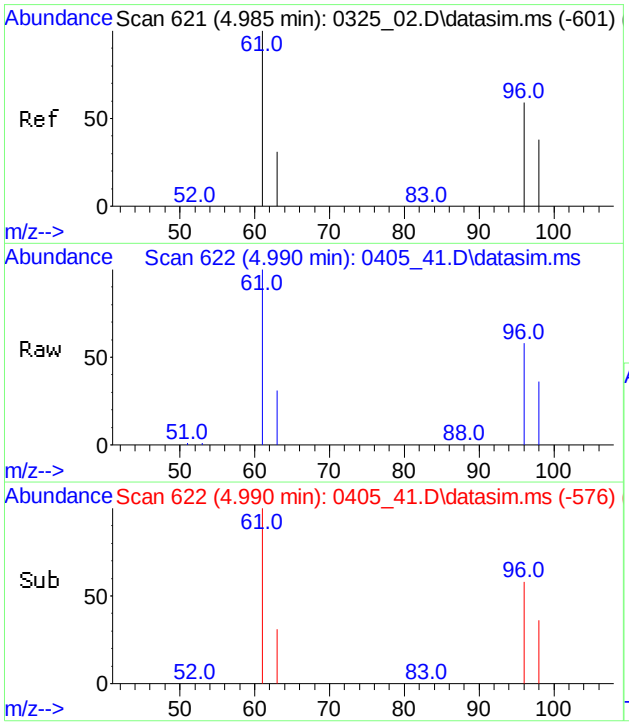




#85
1,1,1-Trichloroethane(sim)
Conc: 8$ 19.742 ppbv
RT: 5.750 min Scan# 729
Delta R.T. 0.024 min
Lab File: 0405_41.D
Acq: 6 Apr 2021 3:05 pm

Tgt Ion: 97 Resp: 1264165

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 63.8 | 64.0 | 64.0# |
| 61 | 53.0 | 50.0 | 75.0 |

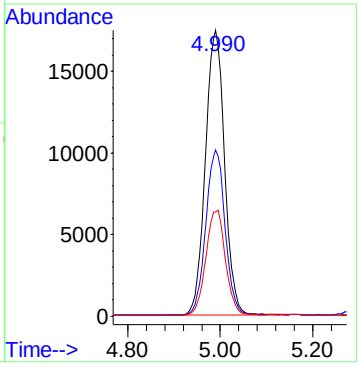


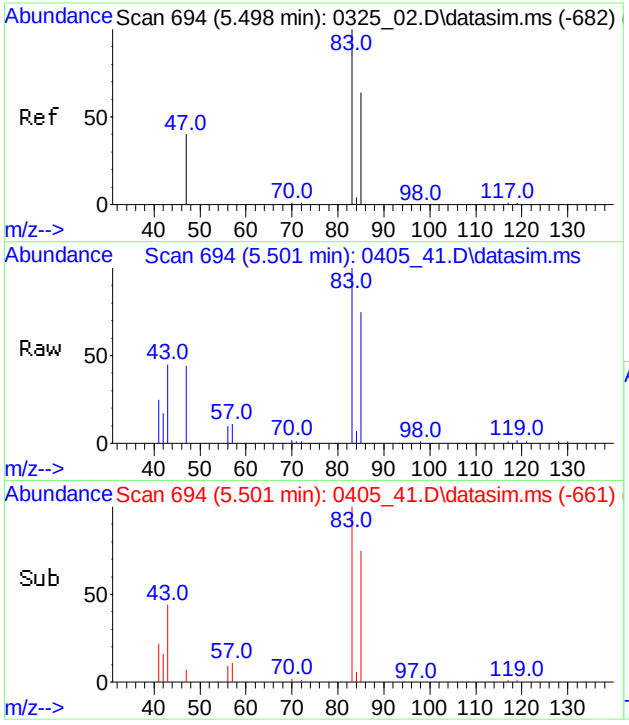



#92
Cis-1,2-Dichloroethene(sim)
Conc: 8$ 1.260 ppbv
RT: 4.990 min Scan# 622
Delta R.T. 0.030 min
Lab File: 0405_41.D
Acq: 6 Apr 2021 3:05 pm

Tgt Ion: 61 Resp: 57841

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 61 | 100 | | |
| 96 | 55.5 | 48.1 | 72.1 |
| 98 | 36.2 | 29.5 | 44.3 |

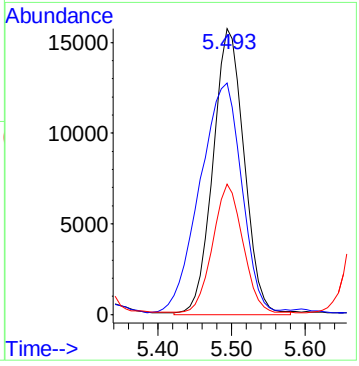


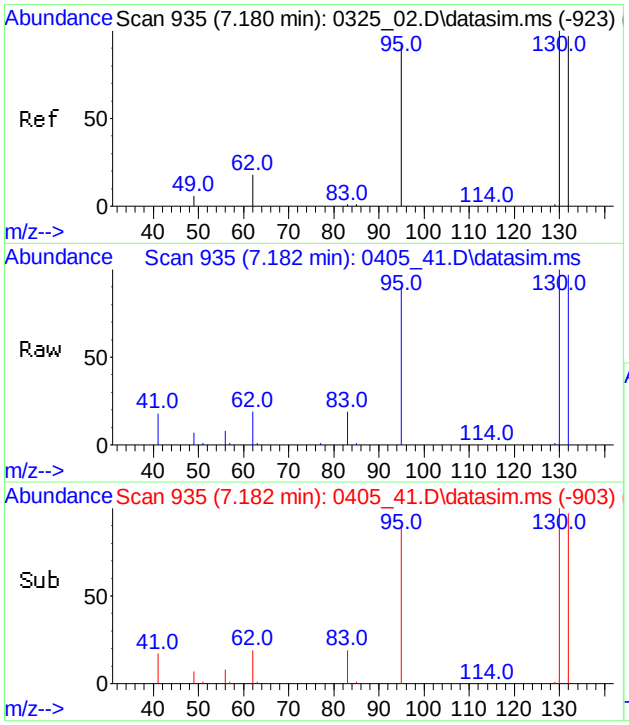




#93
Chloroform(sim)
Conc: 8$ 0.713 ppbv
RT: 5.498 min Scan# 694
Delta R.T. 0.032 min
Lab File: 0405_41.D
Acq: 6 Apr 2021 3:05 pm

Tgt Ion: 83 Resp: 42787

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 105.6 | 51.6 | 77.4# |
| 47 | 45.9 | 32.1 | 48.1 |

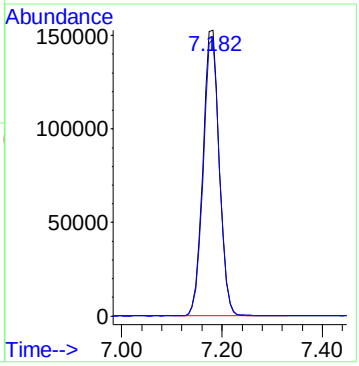


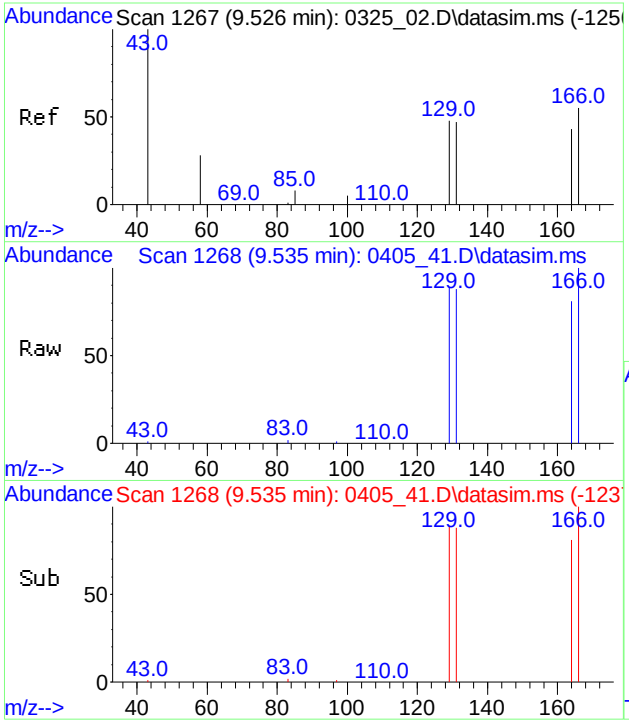



#98
Trichloroethene(sim)
Conc: 8$ 8.304 ppbv
RT: 7.182 min Scan# 935
Delta R.T. 0.023 min
Lab File: 0405_41.D
Acq: 6 Apr 2021 3:05 pm

Tgt Ion:130 Resp: 344813

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 132 | 96.6 | 77.1 | 115.7 |

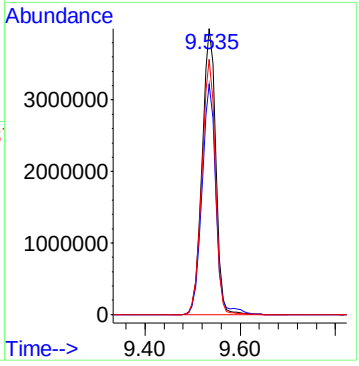


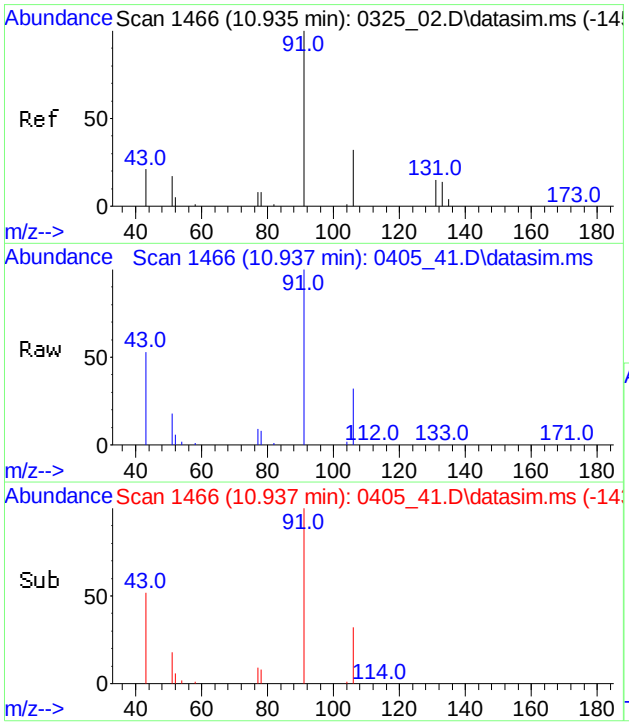




#104
Tetrachloroethene(sim)
Conc: 8$ 164.789 ppbv
RT: 9.535 min Scan# 1268
Delta R.T. 0.024 min
Lab File: 0405_41.D
Acq: 6 Apr 2021 3:05 pm

Tgt Ion:166 Resp: 7968072

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 164 | 81.7 | 58.4 | 98.4 |
| 129 | 88.0 | 66.6 | 106.6 |

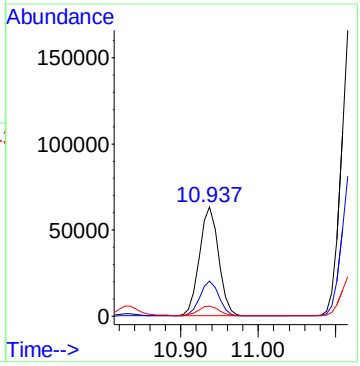


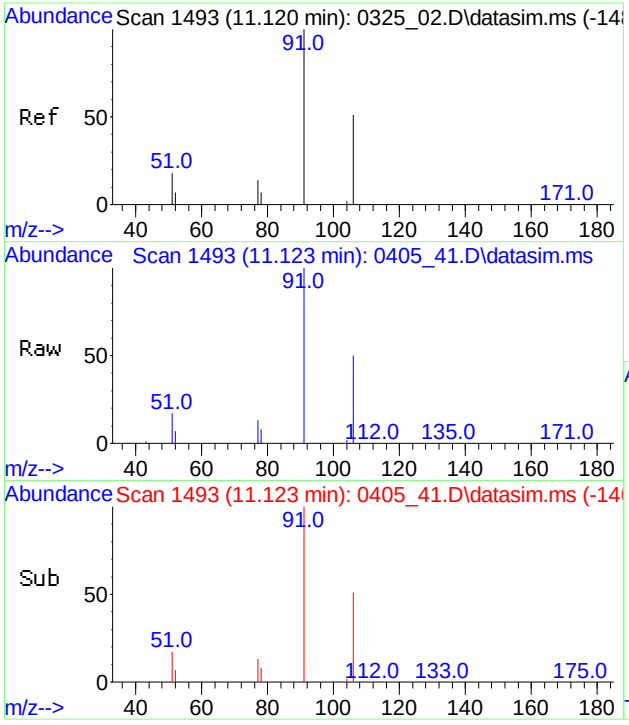



#108
Ethylbenzene(sim)
Conc: 8$ 0.856 ppb
RT: 10.937 min Scan# 1466
Delta R.T. 0.016 min
Lab File: 0405_41.D
Acq: 6 Apr 2021 3:05 pm

Tgt Ion: 91 Resp: 108736

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 32.1 | 25.8 | 38.8 |
| 77 | 9.9 | 7.0 | 10.6 |

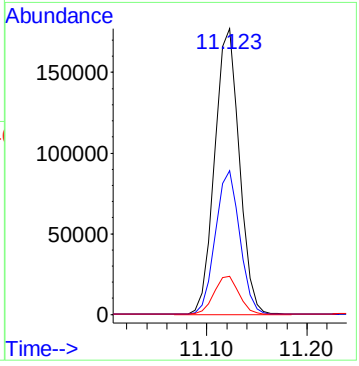


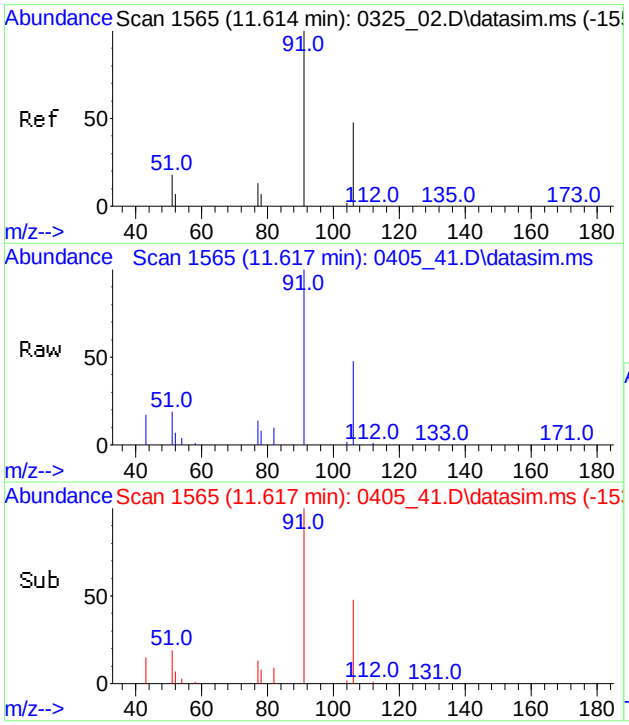




#109
m,p-Xylene(sim)
Conc: 8$ 3.252 ppbv
RT: 11.120 min Scan# 1493
Delta R.T. 0.016 min
Lab File: 0405_41.D
Acq: 6 Apr 2021 3:05 pm

Tgt Ion: 91 Resp: 281441

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 49.3 | 44.8 | 54.8 |
| 77 | 13.1 | 10.5 | 15.7 |

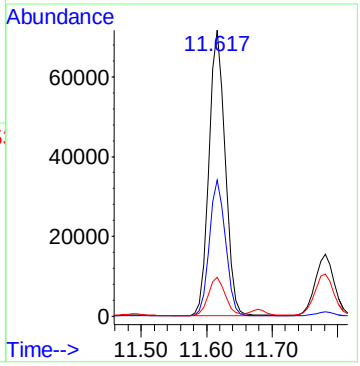





#110
o-Xylene(sim)
Conc: 8$ 1.336 ppb
RT: 11.617 min Scan# 1565
Delta R.T. 0.017 min
Lab File: 0405_41.D
Acq: 6 Apr 2021 3:05 pm

Tgt Ion: 91 Resp: 120908

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 47.3 | 37.6 | 56.4 |
| 77 | 13.9 | 9.8 | 14.8 |



AIR ANALYSIS DATA SHEET

CLIENT ID: CH91177 LCS

Client: GC-ENV Lab: Phoenix Env. Labs

SDG No.: GCH92051 Lab Sample ID: CH91177 LCS

Canister: LCS Lab File ID: 0405_04.D

Instrument: CHEM20 Column: RTX-1 60M Date Received: 04/02/21

Purge Volume 200 (cc) Date Analyzed: 04/05/21

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

| CAS NO. | COMPOUND | CONC. | Q | MDL | PQL | R |
|---|---|---|---|---|---|---|
| 115-07-1 | Propylene | 11.3 | | 0.581 | 0.581 | r |
| 75-71-8 | Dichlorodifluoromethane | 10.5 | | 0.202 | 0.202 | r |
| 74-87-3 | Chloromethane | 11.8 | | 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 | 11.6 | | 0.452 | 0.452 | r |
| 74-83-9 | Bromomethane | 10.1 | | 0.258 | 0.258 | r |
| 75-00-3 | Chloroethane | 10.9 | | 0.379 | 0.379 | r |
| 64-17-5 | Ethanol | 5.85 | | 0.531 | 0.531 | r |
| 67-64-1 | Acetone | 13.0 | | 0.421 | 0.421 | r |
| 75-69-4 | Trichlorofluoromethane | 12.1 | | 0.178 | 0.178 | r |
| 67-63-0 | Isopropylalcohol | 9.38 | | 0.407 | 0.407 | r |
| 107-13-1 | Acrylonitrile | 12.1 | | 0.461 | 0.461 | r |
| 75-35-4 | 1,1-Dichloroethene | 12.5 | | 0.051 | 0.051 | r |
| 75-09-2 | Methylene Chloride | 12.1 | | 0.864 | 0.864 | r |
| 75-15-0 | Carbon Disulfide | 10.8 | | 0.321 | 0.321 | r |
| 76-13-1 | Trichlorotrifluoroethane | 11.4 | | 0.131 | 0.131 | r |
| 156-60-5 | Trans-1,2-Dichloroethene | 10.6 | | 0.252 | 0.252 | r |
| 75-34-3 | 1,1-Dichloroethane | 10.7 | | 0.247 | 0.247 | r |
| 1634-04-4 | Methyl tert-butyl ether(MTBE) | 10.5 | | 0.278 | 0.278 | r |
| 78-93-3 | Methyl Ethyl Ketone | 11.9 | | 0.339 | 0.339 | r |
| 156-59-2 | Cis-1,2-Dichloroethene | 10.8 | | 0.051 | 0.051 | r |
| 110-54-3 | Hexane | 10.9 | | 0.284 | 0.284 | r |
| 67-66-3 | Chloroform | 10.4 | | 0.205 | 0.205 | r |
| 141-78-6 | Ethyl acetate | 11.4 | | 0.278 | 0.278 | r |
| 109-99-9 | Tetrahydrofuran | 11.1 | | 0.339 | 0.339 | r |
| 107-06-2 | 1,2-Dichloroethane | 11.4 | | 0.247 | 0.247 | r |
| 71-55-6 | 1,1,1-Trichloroethane | 10.7 | | 0.183 | 0.183 | r |
| 71-43-2 | Benzene | 10.2 | | 0.313 | 0.313 | r |
| 56-23-5 | Carbon Tetrachloride | 11.1 | | 0.032 | 0.032 | r |
| 110-82-7 | Cyclohexane | 11.7 | | 0.291 | 0.291 | r |
| 78-87-5 | 1,2-dichloropropane | 10.3 | | 0.217 | 0.217 | r |
| 75-27-4 | Bromodichloromethane | 11.1 | | 0.149 | 0.149 | r |
| 79-01-6 | Trichloroethene | 10.6 | | 0.037 | 0.037 | r |
| 123-91-1 | 1,4-Dioxane | 10.2 | | 0.278 | 0.278 | r |
| 142-82-5 | Heptane | 11.9 | | 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: CH91177 LCS

Client: GC-ENV Lab: Phoenix Env. Labs

SDG No.: GCH92051 Lab Sample ID: CH91177 LCS

Canister: LCS Lab File ID: 0405_04.D

Instrument: CHEM20 Column: RTX-1 60M Date Received: 04/02/21

Purge Volume 200 (cc) Date Analyzed: 04/05/21

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 | 11.1 | | 0.220 | 0.220 | r |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | 12.1 | | 0.244 | 0.244 | r |
| 10061-02-6 | trans-1,3-Dichloropropene | 10.5 | | 0.220 | 0.220 | r |
| 79-00-5 | 1,1,2-Trichloroethane | 10.2 | | 0.183 | 0.183 | r |
| 108-88-3 | Toluene | 10.4 | | 0.266 | 0.266 | r |
| 124-48-1 | Dibromochloromethane | 10.8 | | 0.117 | 0.117 | r |
| 591-78-6 | 2-Hexanone(MBK) | 12.4 | | 0.244 | 0.244 | r |
| 106-93-4 | 1,2-Dibromoethane(EDB) | 10.2 | | 0.130 | 0.130 | r |
| 127-18-4 | Tetrachloroethene | 9.82 | | 0.037 | 0.037 | r |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 10.1 | | 0.146 | 0.146 | r |
| 108-90-7 | Chlorobenzene | 9.97 | | 0.217 | 0.217 | r |
| 100-41-4 | Ethylbenzene | 10.4 | | 0.230 | 0.230 | r |
| 179601-23-1 | m,p-Xylene | 22.0 | | 0.230 | 0.230 | r |
| 75-25-2 | Bromoform | 11.1 | | 0.097 | 0.097 | r |
| 100-42-5 | Styrene | 11.3 | | 0.235 | 0.235 | r |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 10.3 | | 0.146 | 0.146 | r |
| 95-47-6 | o-Xylene | 10.9 | | 0.230 | 0.230 | r |
| 98-82-8 | Isopropylbenzene | 10.3 | | 0.204 | 0.204 | r |
| 622-96-8 | 4-Ethyltoluene | 11.3 | | 0.204 | 0.204 | r |
| 108-67-8 | 1,3,5-Trimethylbenzene | 10.6 | | 0.204 | 0.204 | r |
| 95-63-6 | 1,2,4-Trimethylbenzene | 11.3 | | 0.204 | 0.204 | r |
| 100-44-7 | Benzyl chloride | 10.6 | | 0.193 | 0.193 | r |
| 541-73-1 | 1,3-Dichlorobenzene | 11.1 | | 0.166 | 0.166 | r |
| 106-46-7 | 1,4-Dichlorobenzene | 11.3 | | 0.166 | 0.166 | r |
| 135-98-8 | sec-Butylbenzene | 10.5 | | 0.182 | 0.182 | r |
| 99-87-6 | 4-Isopropyltoluene | 10.8 | | 0.182 | 0.182 | r |
| 95-50-1 | 1,2-Dichlorobenzene | 10.8 | | 0.166 | 0.166 | r |
| 104-51-8 | n-Butylbenzene | 11.4 | | 0.182 | 0.182 | r |
| 120-82-1 | 1,2,4-Trichlorobenzene | 12.8 | | 0.135 | 0.135 | r |
| 87-68-3 | Hexachlorobutadiene | 11.4 | | 0.094 | 0.094 | r |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
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| | | | | | | |

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:\AIR2021\CHEM20\04APR\05\
Data File : 0405_04.D
Acq On : 5 Apr 2021 10:51 am
Operator :
Client ID : CH91177 LCS
Lab ID : CH91177 LCS
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 05 15:31:06 2021
Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0329.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Mar 29 13:12:48 2021
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Bromochloromethane | 6.702 | 130 | 195634 | 10.000 | ng | | 0.00 |
| 37) 1,4-Difluorobenzene | 7.897 | 114 | 736657 | 10.000 | ng | | 0.00 |
| 54) Chlorobenzene-d5 | 10.428 | 82 | 408146 | 10.000 | ng | | 0.00 |
| 81) Bromochloromethane(sim) | 6.707 | 130 | 219658 | 10.000 | ng | # | 0.00 |
| 96) 1,4-Difluorobenzene(sim) | 7.897 | 114 | 736669 | 10.000 | ng | | 0.00 |
| 106) Chlorobenzene-d5(sim) | 10.428 | 82 | 408245 | 10.000 | ng | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 63) % Bromofluorobenzene | 11.278 | 95 | 499419 | 10.382 | ppbv | | 0.00 |
| Spiked Amount 10.000 | Range 70 - 130 | | Recovery = 103.80% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) Propylene | 3.403 | 41 | 389064 | 11.295 | ppbv | | 89 |
| 3) Dichlorodifluoromethane | 3.467 | 85 | 618552 | 10.503 | ppbv | | 92 |
| 4) Chloromethane | 3.607 | 50 | 434561 | 11.833 | ppbv | | 94 |
| 5) 1,2-Dichlorotetrafluor... | 3.704 | 85 | 638568 | 11.244 | ppbv | | 96 |
| 6) Vinyl Chloride | 3.791 | 62 | 290699 | 11.118 | ppbv | | 95 |
| 7) 1,3-Butadiene | 3.898 | 54 | 310006 | 11.568 | ppbv | | 98 |
| 8) Bromomethane | 4.114 | 94 | 189104 | 10.135 | ppbv | | 92 |
| 9) Chloroethane | 4.243 | 64 | 129086 | 10.872 | ppbv# | | 80 |
| 11) Ethanol | 4.383 | 45 | 96628 | 5.853 | ppbv# | | 75 |
| 12) Acetone | 4.718 | 43 | 786620 | 13.036 | ppbv# | | 88 |
| 13) Trichlorofluoromethane | 4.793 | 101 | 740888 | 12.103 | ppbv# | | 90 |
| 14) Isopropylalcohol | 4.901 | 45 | 693774m | 9.382 | ppbv | | 89 |
| 15) Acrylonitrile | 5.030 | 53 | 294432 | 12.068 | ppbv | | 92 |
| 16) 1,1-Dichloroethene | 5.235 | 61 | 550850 | 12.540 | ppbv# | | 86 |
| 17) Methylene Chloride | 5.321 | 49 | 559138 | 12.101 | ppbv | | 94 |
| 20) Carbon Disulfide | 5.519 | 76 | 578548 | 10.798 | ppbv | | 96 |
| 21) Trichlorotrifluoroethane | 5.485 | 101 | 484731 | 11.394 | ppbv | | 93 |
| 22) Trans-1,2-Dichloroethene | 5.931 | 61 | 420902 | 10.556 | ppbv | | 97 |
| 23) 1,1-Dichloroethane | 6.065 | 63 | 480340 | 10.678 | ppbv | | 98 |
| 24) Methyl tert-butyl ethe... | 6.112 | 73 | 623444 | 10.496 | ppbv# | | 1 |
| 26) Methyl Ethyl Ketone | 6.333 | 43 | 983197 | 11.888 | ppbv# | | 95 |
| 27) Cis-1,2-Dichloroethene | 6.597 | 61 | 406014 | 10.757 | ppbv | | 96 |
| 28) Hexane | 6.712 | 57 | 500661 | 10.931 | ppbv | | 95 |
| 29) Chloroform | 6.785 | 83 | 491829 | 10.351 | ppbv | | 98 |
| 30) Ethyl acetate | 6.733 | 61 | 98141 | 11.430 | ppbv | | 92 |
| 31) Tetrahydrofuran | 7.045 | 42 | 495588 | 11.050 | ppbv# | | 92 |
| 32) 1,2-Dichloroethane | 7.254 | 62 | 479465 | 11.385 | ppbv | | 93 |
| 33) 1,1,1-Trichloroethane | 7.399 | 97 | 572613 | 10.654 | ppbv | | 94 |
| 34) Benzene | 7.686 | 78 | 578893 | 10.152 | ppbv | | 94 |
| 35) Carbon Tetrachloride | 7.786 | 117 | 630076 | 11.075 | ppbv | | 97 |
| 36) Cyclohexane | 7.853 | 41 | 418355 | 11.674 | ppbv# | | 61 |
| 38) 1,2-dichloropropane | 8.198 | 63 | 286655 | 10.282 | ppbv | | 94 |
| 39) Bromodichloromethane | 8.309 | 83 | 563720 | 11.078 | ppbv | | 96 |
| 40) Trichloroethene | 8.332 | 130 | 299368 | 10.583 | ppbv | | 90 |
| 42) 1,4-Dioxane | 8.332 | 88 | 133041 | 10.188 | ppbv# | | 77 |
| 44) Heptane | 8.488 | 43 | 872147 | 11.851 | ppbv# | | 94 |
| 45) cis-1,3-Dichloropropene | 8.844 | 75 | 388851 | 11.112 | ppbv | | 96 |
| 46) 4-Methyl-2-pentanone(M... | 8.855 | 43 | 1115434 | 12.142 | ppbv# | | 95 |
| 47) trans-1,3-Dichloropropene | 9.140 | 75 | 425593 | 10.541 | ppbv# | | 92 |
| 48) 1,1,2-Trichloroethane | 9.257 | 97 | 262103 | 10.219 | ppbv | | 99 |
| 49) Toluene | 9.412 | 91 | 733028 | 10.425 | ppbv | | 99 |
| 50) Dibromochloromethane | 9.674 | 129 | 532619 | 10.809 | ppbv | | 95 |
| 51) 2-Hexanone(MBK) | 9.548 | 43 | 987254 | 12.431 | ppbv | | 98 |
| 52) 1,2-Dibromoethane(EDB) | 9.810 | 107 | 404548 | 10.217 | ppbv | | 97 |

Data Path : H:\AIR2021\CHEM20\04APR\05\
Data File : 0405_04.D
Acq On : 5 Apr 2021 10:51 am
Operator :
Client ID : CH91177 LCS
Lab ID : CH91177 LCS
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 05 15:31:06 2021
Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0329.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Mar 29 13:12:48 2021
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 53) Tetrachloroethene | 10.072 | 166 | 346492 | 9.815 | ppbv# | 83 |
| 55) 1,1,1,2-Tetrachloroethane | 10.438 | 131 | 373033 | 10.145 | ppbv | 98 |
| 56) Chlorobenzene | 10.458 | 112 | 601837 | 9.974 | ppbv# | 56 |
| 57) Ethylbenzene | 10.653 | 91 | 1012667 | 10.353 | ppbv | 94 |
| 58) m,p-Xylene | 10.756 | 91 | 1639428 | 22.043 | ppbv | 98 |
| 59) Bromoform | 10.817 | 173 | 458409 | 11.103 | ppbv | 91 |
| 60) Styrene | 10.960 | 104 | 575673 | 11.304 | ppbv | 98 |
| 61) 1,1,2,2-Tetrachloroethane | 11.022 | 83 | 558274 | 10.288 | ppbv | 91 |
| 62) o-Xylene | 11.022 | 91 | 870482 | 10.938 | ppbv | 91 |
| 65) Isopropylbenzene | 11.350 | 105 | 1141213 | 10.264 | ppbv | 98 |
| 67) 4-Ethyltoluene | 11.729 | 105 | 1238988 | 11.343 | ppbv | 95 |
| 68) 1,3,5-Trimethylbenzene | 11.770 | 105 | 962844 | 10.590 | ppbv# | 95 |
| 69) 1,2,4-Trimethylbenzene | 12.017 | 105 | 1045403 | 11.267 | ppbv | 97 |
| 71) Benzyl chloride | 11.637 | 91 | 2150068 | 10.590 | ppbv | 97 |
| 72) 1,3-Dichlorobenzene | 12.130 | 146 | 558907 | 11.079 | ppbv | 97 |
| 73) 1,4-Dichlorobenzene | 12.171 | 146 | 484545 | 11.253 | ppbv | 99 |
| 74) sec-Butylbenzene | 12.181 | 105 | 1422312 | 10.453 | ppbv | 100 |
| 75) 4-Isopropyltoluene | 12.273 | 119 | 1423248 | 10.828 | ppbv | 97 |
| 76) 1,2-Dichlorobenzene | 12.386 | 146 | 520937 | 10.761 | ppbv | 93 |
| 77) n-Butylbenzene | 12.540 | 91 | 1039788 | 11.420 | ppbv | 98 |
| 78) 1,2,4-Trichlorobenzene | 13.525 | 180 | 207013 | 12.822 | ppbv# | 83 |
| 80) Hexachlorobutadiene | 13.853 | 225 | 378102 | 11.376 | ppbv | 96 |
| 82] 1,2-Dichlorotetrafluor... | 3.704 | 85 | 638374 | 10.560 | ppbv | 97 |
| 83] Vinyl Chloride(sim) | 3.785 | 62 | 322682 | 11.187 | ppbv | 98 |
| 84] Bromomethane(sim) | 4.114 | 94 | 189104 | 9.320 | ppbv | 92 |
| 85] Trichlorofluoromethane... | 4.799 | 101 | 807372 | 11.812 | ppbv# | 99 |
| 86] 1,2-Dichloroethane(sim) | 7.254 | 62 | 479465 | 10.960 | ppbv | 93 |
| 87] 1,1,1-Trichloroethane(... | 7.405 | 97 | 630726 | 10.821 | ppbv# | 98 |
| 88] Benzene(sim) | 7.686 | 78 | 578893 | 10.155 | ppbv | 94 |
| 89] Carbon Tetrachloride(sim) | 7.780 | 117 | 684208 | 11.108 | ppbv | 99 |
| 90] 1,1-Dichloroethene(sim) | 5.235 | 61 | 550850 | 12.011 | ppbv | 88 |
| 91] Trichlorotrifluoroetha... | 5.491 | 101 | 530042 | 10.950 | ppbv# | 98 |
| 92] Trans-1,2-Dichloroethe... | 5.931 | 61 | 420902 | 10.419 | ppbv | 97 |
| 93] 1,1-Dichloroethane(sim) | 6.070 | 63 | 530616 | 10.462 | ppbv | 99 |
| 94] Cis-1,2-Dichloroethene... | 6.597 | 61 | 406014 | 10.654 | ppbv | 96 |
| 95] Chloroform(sim) | 6.791 | 83 | 525995 | 10.243 | ppbv | 95 |
| 97] 1,2-dichloropropane(sim) | 8.193 | 63 | 314853 | 9.897 | ppbv | 92 |
| 98] Bromodichloromethane(sim) | 8.309 | 83 | 563720 | 11.078 | ppbv | 94 |
| 99] Trichloroethene(sim) | 8.337 | 130 | 341648 | 10.186 | ppbv | 97 |
| 100] 1,4-Dioxane(sim) | 8.332 | 88 | 133041 | 10.035 | ppbv# | 90 |
| 101] cis-1,3-Dichloropropen... | 8.838 | 75 | 437520 | 11.174 | ppbv | 98 |
| 102] 1,1,2-Trichloroethane(... | 9.257 | 97 | 262103 | 9.748 | ppbv | 99 |
| 103] Dibromochloromethane(sim) | 9.680 | 129 | 600629 | 11.545 | ppbv | 98 |
| 104] 1,2-Dibromoethane(EDB)... | 9.810 | 107 | 404548 | 10.718 | ppbv | 97 |
| 105] Tetrachloroethene(sim) | 10.068 | 166 | 419596 | 9.981 | ppbv | 98 |
| 107] Bromoform(sim) | 10.823 | 173 | 527771 | 11.491 | ppbv | 99 |
| 108] m,p-Xylene(sim) | 10.756 | 91 | 1641808 | 20.482 | ppbv | 98 |
| 109] 1,1,2,2-Tetrachloroeth... | 11.017 | 83 | 602631 | 9.887 | ppbv | 100 |
| 112] Benzyl chloride(sim) | 12.109 | 91 | 596734 | 12.566 | ppbv | 94 |
| 113] 1,3-Dichlorobenzene(sim) | 12.135 | 146 | 673122 | 12.646 | ppbv | 99 |
| 114] 1,4-Dichlorobenzene(sim) | 12.171 | 146 | 484545 | 12.159 | ppbv | 100 |
| 115] sec-Butylbenzene(sim) | 12.186 | 105 | 1583290 | 10.421 | ppbv | 99 |
| 116] 4-Isopropyltoluene(sim) | 12.273 | 119 | 1423248 | 10.552 | ppbv | 97 |
| 117] 1,2-Dichlorobenzene(sim) | 12.392 | 146 | 610932 | 11.206 | ppbv | 98 |
| 118] n-Butylbenzene(sim) | 12.540 | 91 | 1039788 | 12.938 | ppbv | 98 |
| 119] 1,2,4-Trichlorobenzene... | 13.520 | 180 | 254076 | 15.169 | ppbv | 97 |
| 121] Hexachlorobutadiene(sim) | 13.859 | 225 | 474577 | 9.264 | ppbv | 99 |

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2021\CHEM20\04APR\05\
Data File : 0405_04.D
Acq On : 5 Apr 2021 10:51 am
Operator :
Client ID : CH91177 LCS
Lab ID : CH91177 LCS
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 05 15:31:06 2021
Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0329.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Mar 29 13:12:48 2021
Response via : Initial Calibration

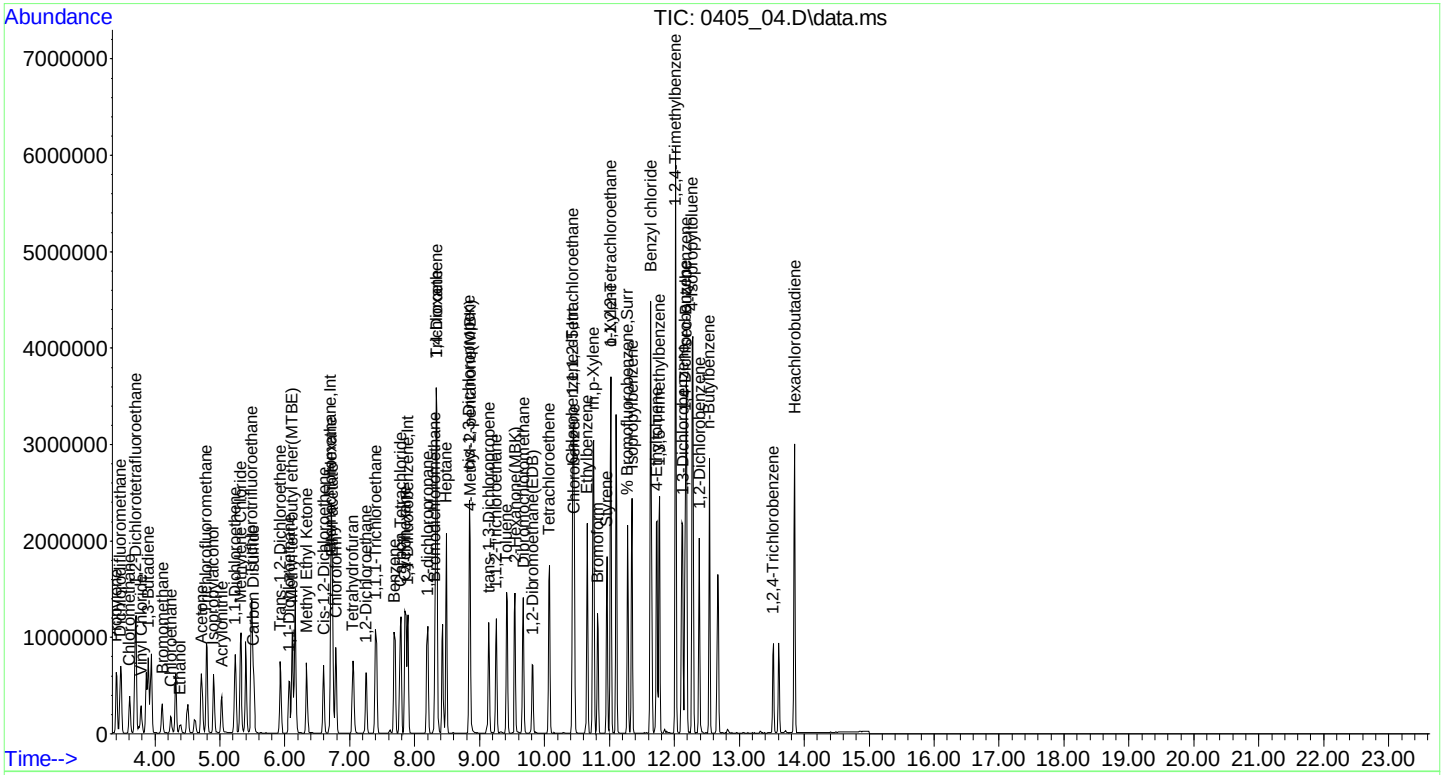
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

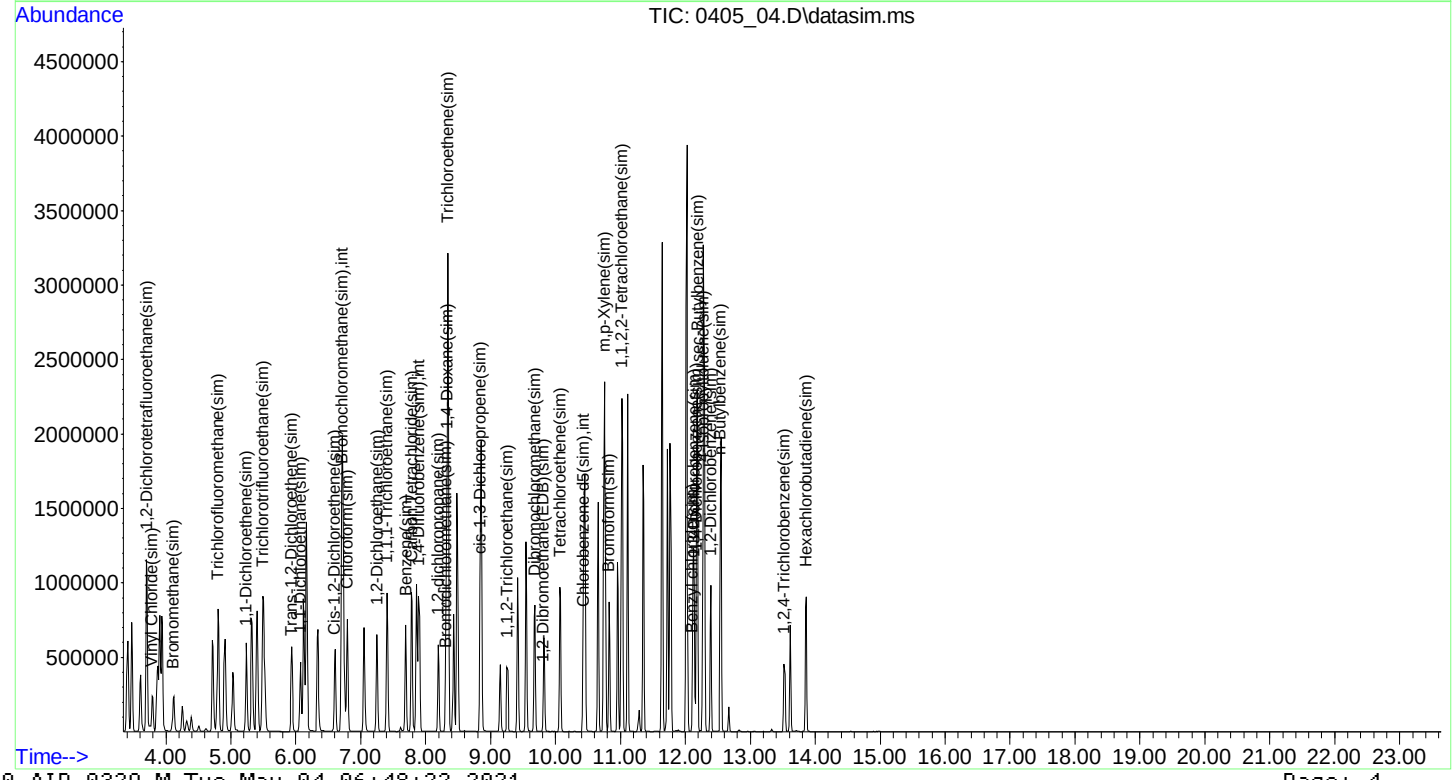
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2021\CHEM20\04APR\05\
Data File : 0405_04.D
Acq On : 5 Apr 2021 10:51 am
Operator :
Client ID : CH91177 LCS
Lab ID : CH91177 LCS
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 05 15:31:06 2021
Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0329.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Mar 29 13:12:48 2021
Response via : Initial Calibration



AIR ANALYSIS DATA SHEET

CLIENT ID: CH91177 QC

Client: GC-ENV Lab: Phoenix Env. Labs

SDG No.: GCH92051 Lab Sample ID: CH91177 0.5X

Canister: 28553 Lab File ID: 0405_07.D

Instrument: CHEM20 Column: RTX-1 60M Date Received: 04/02/21

Purge Volume 200 (cc) Date Analyzed: 04/05/21

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

| CAS NO. | COMPOUND | CONC. | Q | MDL | PQL | R |
|---|---|---|---|---|---|---|
| 115-07-1 | Propylene | 0.250 | U | 0.250 | 0.250 | r |
| 75-71-8 | Dichlorodifluoromethane | 0.269 | | 0.250 | 0.250 | r |
| 74-87-3 | Chloromethane | 0.250 | U | 0.250 | 0.250 | r |
| 106-99-0 | 1,3-Butadiene | 0.250 | U | 0.250 | 0.250 | r |
| 75-00-3 | Chloroethane | 0.250 | U | 0.250 | 0.250 | r |
| 64-17-5 | Ethanol | 770 | S | 0.266 | 0.266 | |
| 67-64-1 | Acetone | 58.1 | S | 0.211 | 0.211 | |
| 75-69-4 | Trichlorofluoromethane | 0.280 | | 0.250 | 0.250 | r |
| 67-63-0 | Isopropylalcohol | 21.4 | ES | 0.375 | 0.375 | r |
| 107-13-1 | Acrylonitrile | 0.250 | U | 0.250 | 0.250 | r |
| 75-09-2 | Methylene Chloride | 1.50 | U | 1.50 | 1.50 | r |
| 75-15-0 | Carbon Disulfide | 0.250 | U | 0.250 | 0.250 | r |
| 1634-04-4 | Methyl tert-butyl ether(MTBE) | 0.250 | U | 0.250 | 0.250 | r |
| 78-93-3 | Methyl Ethyl Ketone | 0.834 | | 0.225 | 0.225 | r |
| 156-59-2 | Cis-1,2-Dichloroethene | 0.483 | | 0.100 | 0.100 | r |
| 110-54-3 | Hexane | 0.454 | S | 0.225 | 0.225 | r |
| 141-78-6 | Ethyl acetate | 0.250 | U | 0.250 | 0.250 | r |
| 109-99-9 | Tetrahydrofuran | 0.333 | | 0.250 | 0.250 | r |
| 71-43-2 | Benzene | 0.311 | | 0.100 | 0.100 | r |
| 110-82-7 | Cyclohexane | 0.341 | | 0.250 | 0.250 | r |
| 79-01-6 | Trichloroethene | 2.62 | | 0.025 | 0.025 | r |
| 142-82-5 | Heptane | 8.17 | | 0.250 | 0.250 | r |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | 0.250 | U | 0.250 | 0.250 | r |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.250 | U | 0.250 | 0.250 | r |
| 108-88-3 | Toluene | 2.96 | | 0.250 | 0.250 | r |
| 591-78-6 | 2-Hexanone(MBK) | 0.250 | U | 0.250 | 0.250 | r |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 0.250 | U | 0.250 | 0.250 | r |
| 108-90-7 | Chlorobenzene | 0.100 | U | 0.100 | 0.100 | r |
| 100-41-4 | Ethylbenzene | 1.04 | | 0.250 | 0.250 | r |
| 179601-23-1 | m,p-Xylene | 4.18 | | 0.500 | 0.500 | r |
| 100-42-5 | Styrene | 0.101 | | 0.100 | 0.100 | r |
| 95-47-6 | o-Xylene | 1.32 | | 0.250 | 0.250 | r |
| 98-82-8 | Isopropylbenzene | 0.250 | U | 0.250 | 0.250 | r |
| 622-96-8 | 4-Ethyltoluene | 1.05 | | 0.250 | 0.250 | r |
| 108-67-8 | 1,3,5-Trimethylbenzene | 0.384 | | 0.250 | 0.250 | r |
| 95-63-6 | 1,2,4-Trimethylbenzene | 1.40 | | 0.250 | 0.250 | 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: CH91177 QC

Client: GC-ENV Lab: Phoenix Env. Labs

SDG No.: GCH92051 Lab Sample ID: CH91177 0.5X

Canister: 28553 Lab File ID: 0405_07.D

Instrument: CHEM20 Column: RTX-1 60M Date Received: 04/02/21

Purge Volume 200 (cc) Date Analyzed: 04/05/21

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

| CAS NO. | COMPOUND | CONC. | Q | MDL | PQL | R |
|---|---|---|---|---|---|---|
| 541-73-1 | 1,3-Dichlorobenzene | 0.140 | | 0.050 | 0.050 | r |
| 104-51-8 | n-Butylbenzene | 0.250 | U | 0.250 | 0.250 | r |
| 76-14-2 | 1,2-Dichlorotetrafluoroethane(sim) | 0.250 | U | 0.250 | 0.250 | r |
| 75-01-4 | Vinyl Chloride(sim) | 0.050 | U | 0.050 | 0.050 | r |
| 74-83-9 | Bromomethane(sim) | 0.070 | U | 0.070 | 0.070 | r |
| 107-06-2 | 1,2-Dichloroethane(sim) | 0.020 | | 0.010 | 0.010 | r |
| 71-55-6 | 1,1,1-Trichloroethane(sim) | 0.250 | U | 0.250 | 0.250 | r |
| 56-23-5 | Carbon Tetrachloride(sim) | 0.085 | | 0.043 | 0.043 | r |
| 75-35-4 | 1,1-Dichloroethene(sim) | 0.100 | U | 0.100 | 0.100 | r |
| 76-13-1 | Trichlorotrifluoroethane(sim) | 0.250 | U | 0.250 | 0.250 | r |
| 156-60-5 | Trans-1,2-Dichloroethene(sim) | 0.100 | U | 0.100 | 0.100 | r |
| 75-34-3 | 1,1-Dichloroethane(sim) | 0.075 | U | 0.075 | 0.075 | r |
| 67-66-3 | Chloroform(sim) | 0.100 | U | 0.100 | 0.100 | r |
| 78-87-5 | 1,2-dichloropropane(sim) | 0.010 | U | 0.010 | 0.010 | r |
| 75-27-4 | Bromodichloromethane(sim) | 0.010 | U | 0.010 | 0.010 | r |
| 123-91-1 | 1,4-Dioxane(sim) | 0.065 | U | 0.065 | 0.065 | r |
| 10061-01-5 | cis-1,3-Dichloropropene(sim) | 0.050 | U | 0.050 | 0.050 | r |
| 79-00-5 | 1,1,2-Trichloroethane(sim) | 0.010 | U | 0.010 | 0.010 | r |
| 124-48-1 | Dibromochloromethane(sim) | 0.010 | U | 0.010 | 0.010 | r |
| 106-93-4 | 1,2-Dibromoethane(EDB)(sim) | 0.010 | U | 0.010 | 0.010 | r |
| 127-18-4 | Tetrachloroethene(sim) | 0.093 | | 0.050 | 0.050 | r |
| 75-25-2 | Bromoform(sim) | 0.075 | U | 0.075 | 0.075 | r |
| 79-34-5 | 1,1,2,2-Tetrachloroethane(sim) | 0.010 | U | 0.010 | 0.010 | r |
| 100-44-7 | Benzyl chloride(sim) | 0.250 | U | 0.250 | 0.250 | r |
| 106-46-7 | 1,4-Dichlorobenzene(sim) | 0.081 | | 0.040 | 0.040 | r |
| 135-98-8 | sec-Butylbenzene(sim) | 0.250 | U | 0.250 | 0.250 | r |
| 99-87-6 | 4-Isopropyltoluene(sim) | 0.250 | U | 0.250 | 0.250 | r |
| 95-50-1 | 1,2-Dichlorobenzene(sim) | 0.050 | U | 0.050 | 0.050 | r |
| 120-82-1 | 1,2,4-Trichlorobenzene(sim) | 0.027 | U | 0.027 | 0.027 | r |
| 87-68-3 | Hexachlorobutadiene(sim) | 0.010 | U | 0.010 | 0.010 | 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:\AIR2021\CHEM20\04APR\05\
Data File : 0405_07.D
Acq On : 5 Apr 2021 12:43 pm
Operator :
Client ID : CH91177 QC
Lab ID : CH91177 QC
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 05 15:23:32 2021
Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0329.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Mar 29 13:12:48 2021
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Bromochloromethane | 6.704 | 130 | 191589 | 10.000 | ng | | 0.00 |
| 37) 1,4-Difluorobenzene | 7.889 | 114 | 736059 | 10.000 | ng | | 0.00 |
| 54) Chlorobenzene-d5 | 10.430 | 82 | 418966 | 10.000 | ng | | 0.00 |
| 81) Bromochloromethane(sim) | 6.710 | 130 | 223002 | 10.000 | ng | # | 0.00 |
| 96) 1,4-Difluorobenzene(sim) | 7.889 | 114 | 736059 | 10.000 | ng | | 0.00 |
| 106) Chlorobenzene-d5(sim) | 10.430 | 82 | 418733 | 10.000 | ng | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 63) % Bromofluorobenzene | 11.281 | 95 | 495907 | 10.043 | ppbv | | 0.00 |
| Spiked Amount 10.000 | Range 70 - 130 | | Recovery = 100.40% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 3) Dichlorodifluoromethane | 3.478 | 85 | 30954 | 0.537 | ppbv# | | 90 |
| 11) Ethanol | 4.437 | 45 | 24884237 | 1539.104 | ppbv# | | 65 |
| 12) Acetone | 4.707 | 43 | 6862023 | 116.116 | ppbv# | | 88 |
| 13) Trichlorofluoromethane | 4.793 | 101 | 33491 | 0.559 | ppbv# | | 92 |
| 14) Isopropylalcohol | 4.933 | 45 | 3099899 | 42.806 | ppbv# | | 86 |
| 17) Methylene Chloride | 5.330 | 49 | 13465 | 0.298 | ppbv | | 90 |
| 21) Trichlorotrifluoroethane | 5.493 | 101 | 5987 | 0.144 | ppbv | | 91 |
| 26) Methyl Ethyl Ketone | 6.341 | 43 | 135126m | 1.668 | ppbv# | | 97 |
| 27) Cis-1,2-Dichloroethene | 6.600 | 61 | 35712 | 0.966 | ppbv | | 97 |
| 28) Hexane | 6.714 | 57 | 40679 | 0.907 | ppbv | | 91 |
| 31) Tetrahydrofuran | 7.058 | 42 | 29269 | 0.666 | ppbv# | | 87 |
| 32) 1,2-Dichloroethane | 7.246 | 62 | 1751 | 0.042 | ppbv# | | 71 |
| 34) Benzene | 7.688 | 78 | 34723 | 0.622 | ppbv# | | 73 |
| 35) Carbon Tetrachloride | 7.777 | 117 | 9206 | 0.165 | ppbv | | 98 |
| 36) Cyclohexane | 7.855 | 41 | 23889 | 0.681 | ppbv# | | 74 |
| 39) Bromodichloromethane | 8.334 | 83 | 7379 | 0.145 | ppbv# | | 50 |
| 40) Trichloroethene | 8.334 | 130 | 147928 | 5.234 | ppbv | | 91 |
| 44) Heptane | 8.479 | 43 | 1201912 | 16.345 | ppbv | | 95 |
| 49) Toluene | 9.415 | 91 | 415981 | 5.921 | ppbv | | 100 |
| 52) 1,2-Dibromoethane(EDB) | 9.677 | 107 | 2986 | 0.075 | ppbv# | | 4 |
| 53) Tetrachloroethene | 10.065 | 166 | 6234 | 0.177 | ppbv# | | 81 |
| 57) Ethylbenzene | 10.655 | 91 | 209059 | 2.082 | ppbv | | 94 |
| 58) m,p-Xylene | 10.748 | 91 | 637631 | 8.352 | ppbv | | 96 |
| 60) Styrene | 10.963 | 104 | 10545 | 0.202 | ppbv# | | 85 |
| 61) 1,1,2,2-Tetrachloroethane | 11.024 | 83 | 5378 | 0.097 | ppbv# | | 1 |
| 62) o-Xylene | 11.014 | 91 | 214998 | 2.632 | ppbv | | 93 |
| 67) 4-Ethyltoluene | 11.701 | 105 | 235621 | 2.101 | ppbv | | 100 |
| 68) 1,3,5-Trimethylbenzene | 11.763 | 105 | 71720 | 0.768 | ppbv# | | 96 |
| 69) 1,2,4-Trimethylbenzene | 12.019 | 105 | 266418 | 2.797 | ppbv# | | 83 |
| 72) 1,3-Dichlorobenzene | 12.122 | 146 | 14516 | 0.280 | ppbv | | 91 |
| 73) 1,4-Dichlorobenzene | 12.163 | 146 | 6570 | 0.149 | ppbv | | 95 |
| 77) n-Butylbenzene | 12.532 | 91 | 38286 | 0.410 | ppbv# | | 45 |
| 78) 1,2,4-Trichlorobenzene | 13.517 | 180 | 1473 | 0.089 | ppbv# | | 85 |
| 80) Hexachlorobutadiene | 13.856 | 225 | 844 | 0.025 | ppbv# | | 63 |
| 85] Trichlorofluoromethane... | 4.799 | 101 | 36337 | 0.524 | ppbv# | | 99 |
| 86] 1,2-Dichloroethane(sim) | 7.246 | 62 | 1751 | 0.039 | ppbv# | | 71 |
| 88] Benzene(sim) | 7.688 | 78 | 34723 | 0.600 | ppbv# | | 74 |
| 89] Carbon Tetrachloride(sim) | 7.783 | 117 | 10546 | 0.169 | ppbv | | 99 |
| 94] Cis-1,2-Dichloroethene... | 6.600 | 61 | 35712 | 0.923 | ppbv | | 97 |
| 99] Trichloroethene(sim) | 8.340 | 130 | 170011 | 5.073 | ppbv | | 97 |
| 105] Tetrachloroethene(sim) | 10.070 | 166 | 7819 | 0.186 | ppbv | | 98 |
| 108] m,p-Xylene(sim) | 10.748 | 91 | 641198 | 7.799 | ppbv | | 97 |
| 113] 1,3-Dichlorobenzene(sim) | 12.127 | 146 | 15363 | 0.281 | ppbv# | | 90 |
| 114] 1,4-Dichlorobenzene(sim) | 12.163 | 146 | 6570 | 0.161 | ppbv | | 96 |

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2021\CHEM20\04APR\05\
Data File : 0405_07.D
Acq On : 5 Apr 2021 12:43 pm
Operator :
Client ID : CH91177 QC
Lab ID : CH91177 QC
ALS Vial : 7 Sample Multiplier: 1

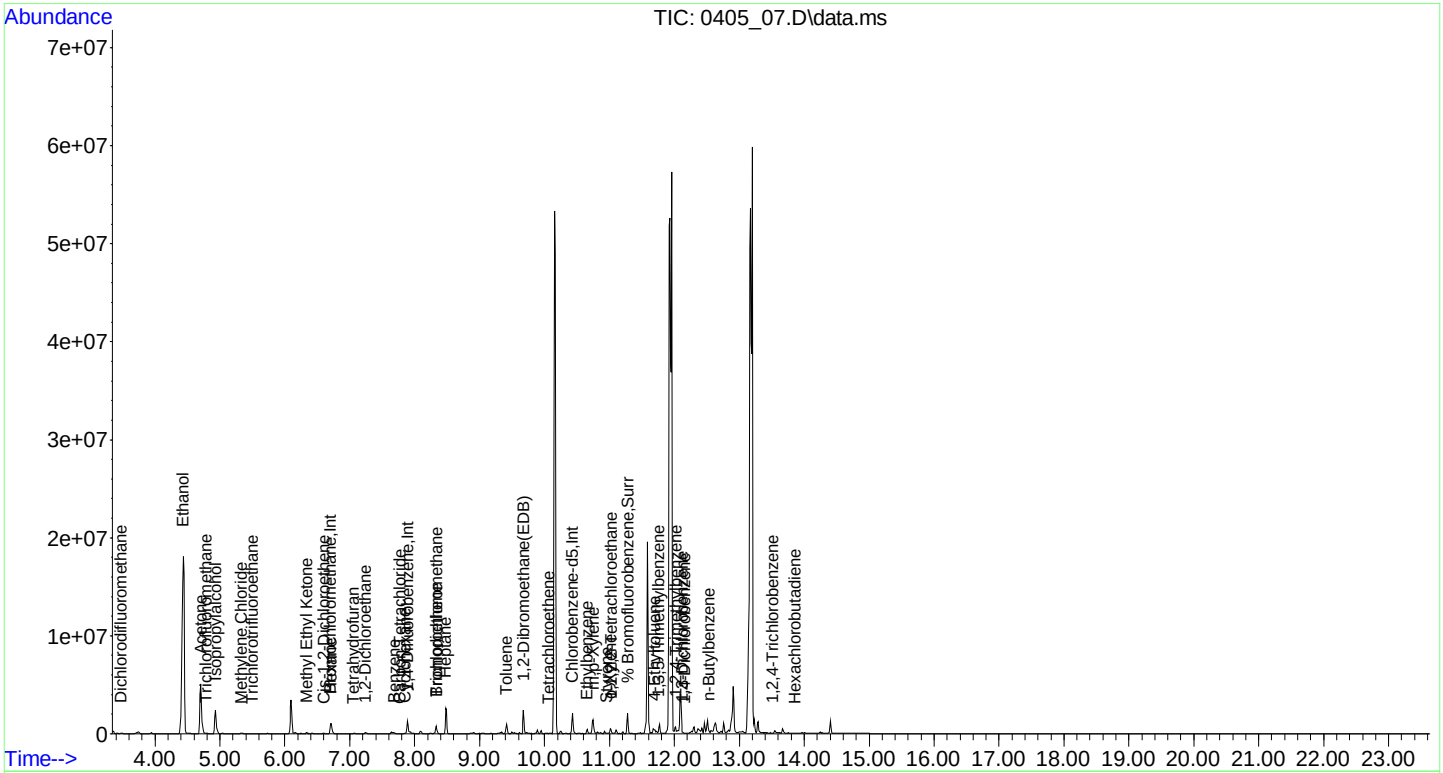
Quant Time: Apr 05 15:23:32 2021
Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0329.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Mar 29 13:12:48 2021
Response via : Initial Calibration

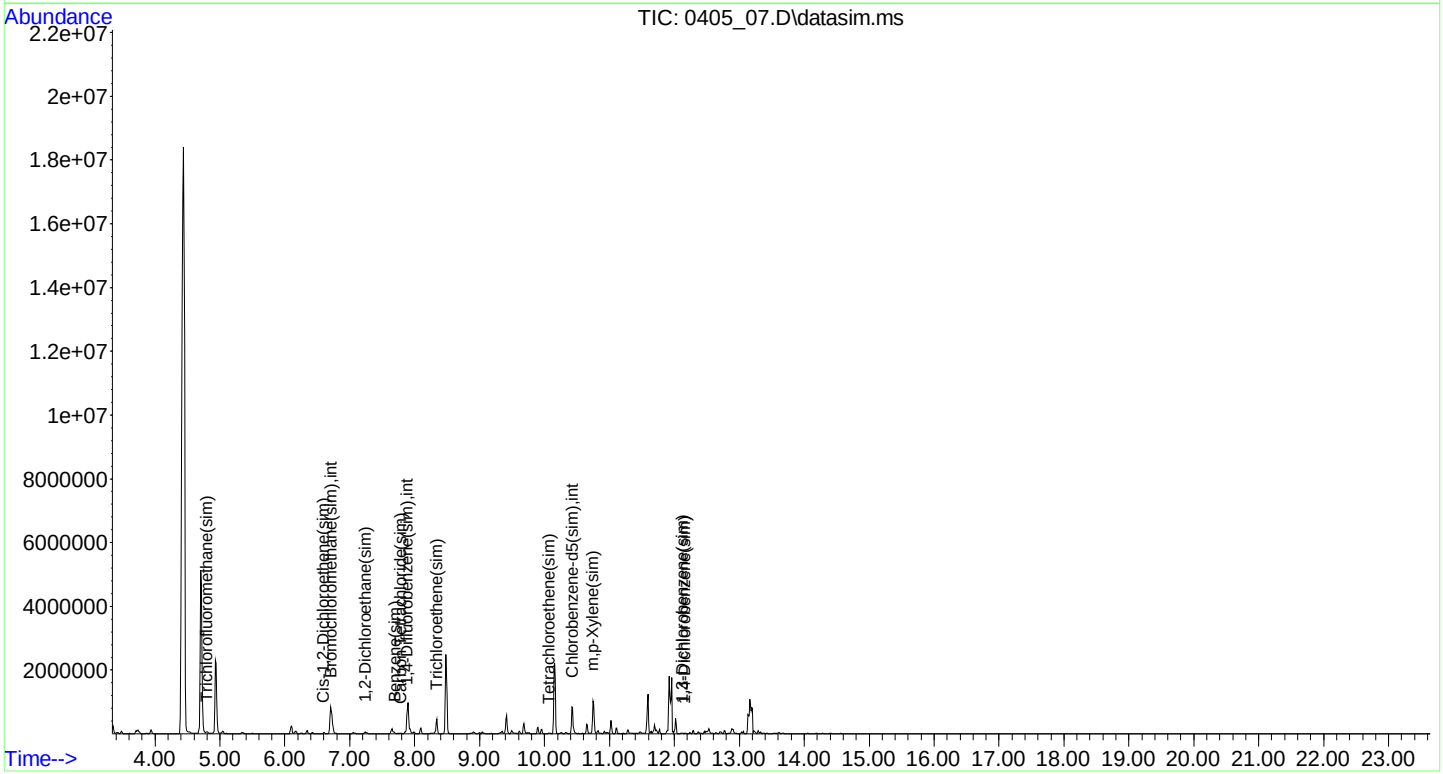
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

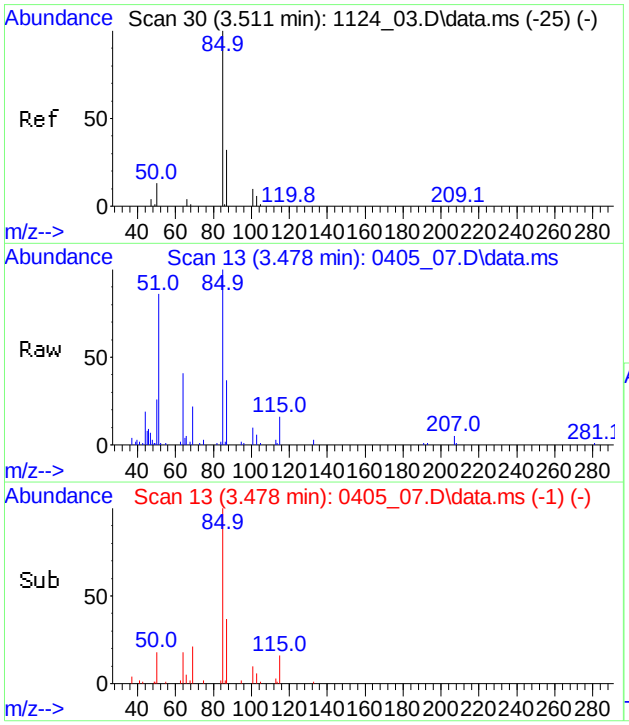
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2021\CHEM20\04APR\05\
Data File : 0405_07.D
Acq On : 5 Apr 2021 12:43 pm
Operator :
Client ID : CH91177 QC
Lab ID : CH91177 QC
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 05 15:23:32 2021
Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0329.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Mar 29 13:12:48 2021
Response via : Initial Calibration



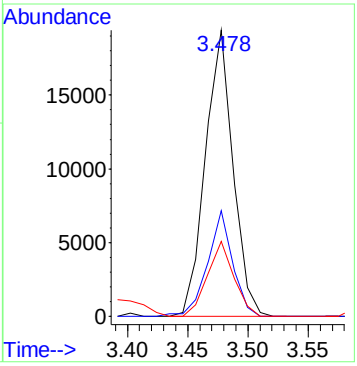



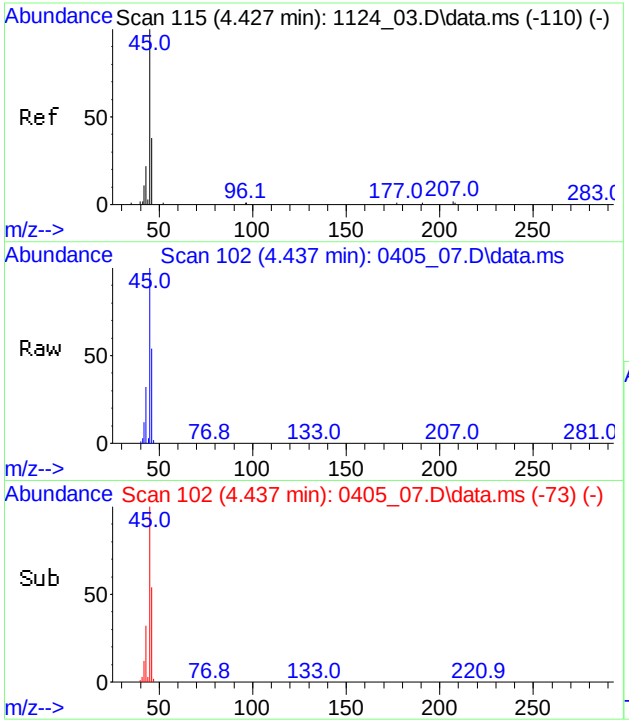



#3
Dichlorodifluoromethane
Conc: 8$ 0.537 ppbv
RT: 3.478 min Scan# 13
Delta R.T. -0.021 min
Lab File: 0405_07.D
Acq: 5 Apr 2021 12:43 pm

Tgt Ion: 85 Resp: 30954

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 33.3 | 30.8 | 46.2 |
| 50 | 24.9 | 15.7 | 23.5# |

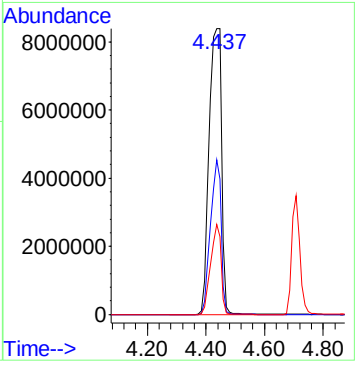


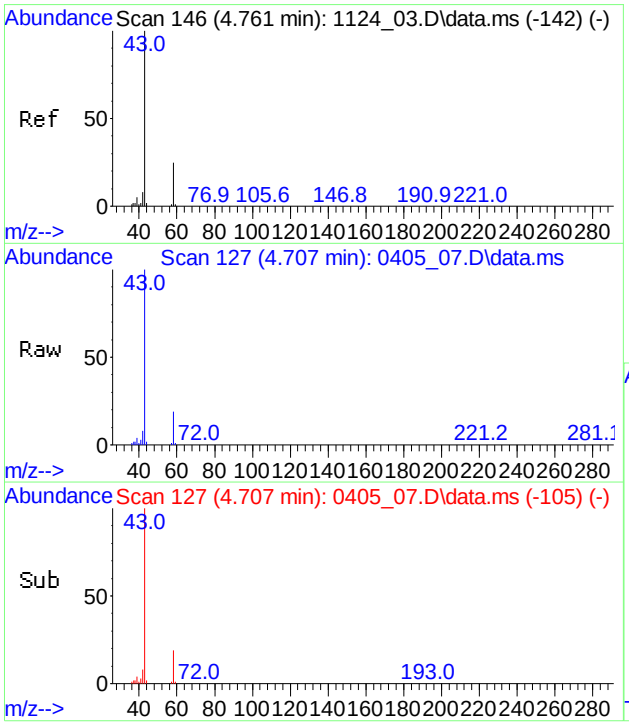




#11
Ethanol
Conc: 8$ 1539.104 ppbv
RT: 4.437 min Scan# 102
Delta R.T. 0.011 min
Lab File: 0405_07.D
Acq: 5 Apr 2021 12:43 pm

Tgt Ion: 45 Resp: 24884237

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 45.8 | 0.0 | 0.0# |
| 43 | 26.1 | 10.0 | 15.0# |

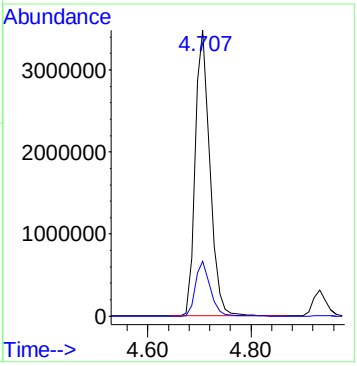


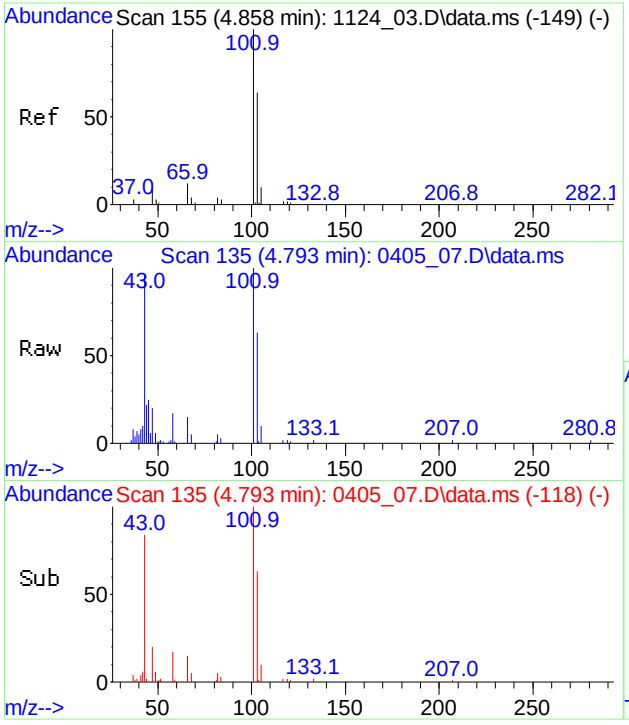



#12
Acetone
Conc: 8$ 116.116 ppbv
RT: 4.707 min Scan# 127
Delta R.T. -0.064 min
Lab File: 0405_07.D
Acq: 5 Apr 2021 12:43 pm

Tgt Ion: 43 Resp: 6862023

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 19.2 | 20.4 | 30.6# |

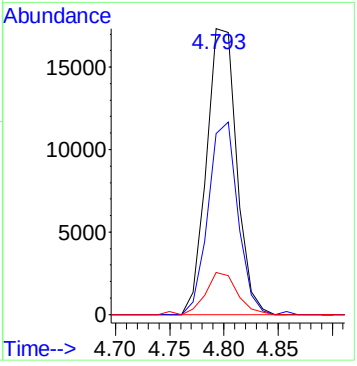


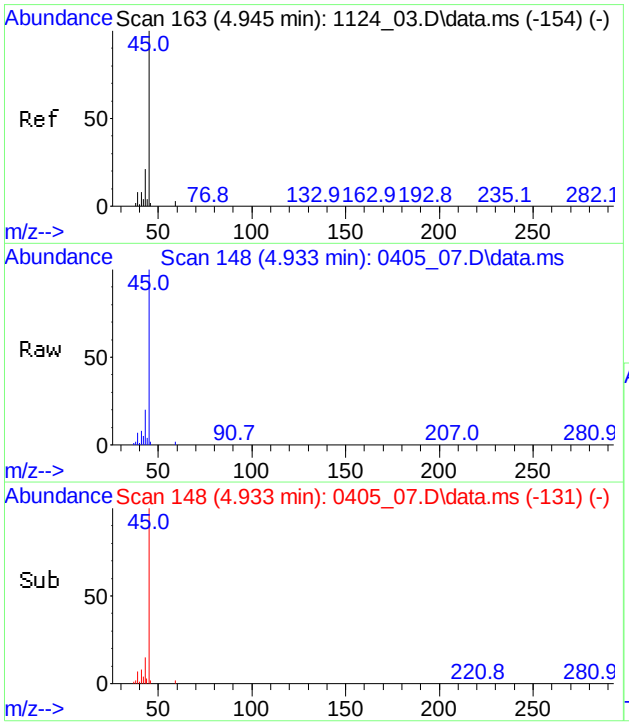




#13
Trichlorofluoromethane
Conc: 8$ 0.559 ppbv
RT: 4.793 min Scan# 135
Delta R.T. -0.021 min
Lab File: 0405_07.D
Acq: 5 Apr 2021 12:43 pm

Tgt Ion:101 Resp: 33491

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 66.6 | 58.3 | 87.5 |
| 66 | 15.6 | 10.1 | 15.1# |

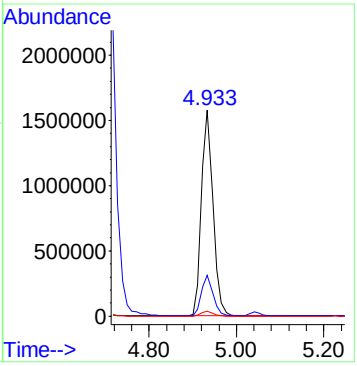


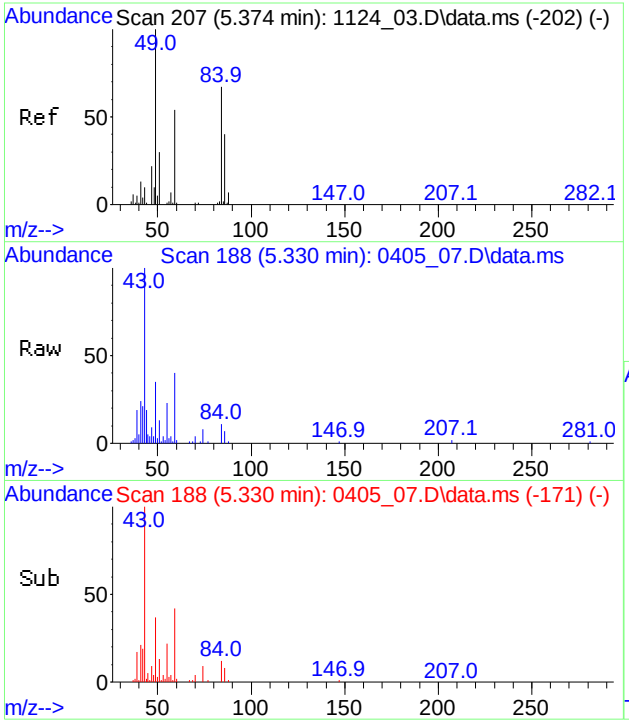



#14
Isopropylalcohol
Conc: 8$ 42.806 ppbv
RT: 4.933 min Scan# 148
Delta R.T. -0.022 min
Lab File: 0405_07.D
Acq: 5 Apr 2021 12:43 pm

Tgt Ion: 45 Resp: 3099899

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 18.2 | 20.6 | 31.0# |
| 59 | 2.2 | 2.1 | 3.1 |

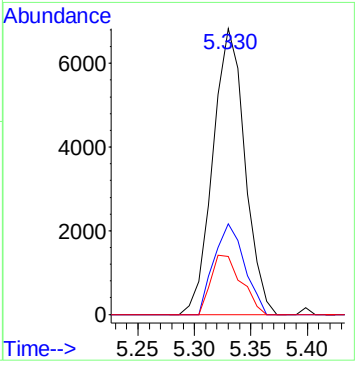


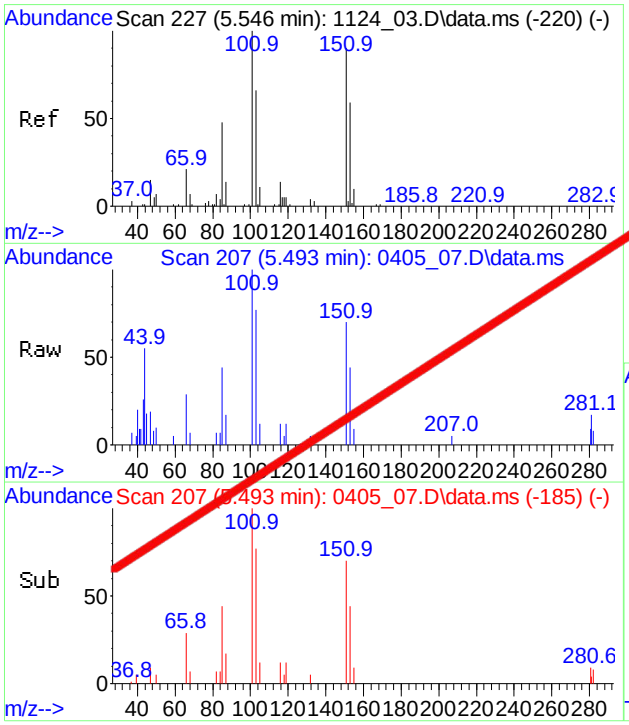




#17
Methylene Chloride
Conc: 8$ 0.298 ppbv
RT: 5.330 min Scan# 188
Delta R.T. -0.000 min
Lab File: 0405_07.D
Acq: 5 Apr 2021 12:43 pm

Tgt Ion: 49 Resp: 13465

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 84 | 30.2 | 29.3 | 43.9 |
| 86 | 19.7 | 18.9 | 28.3 |

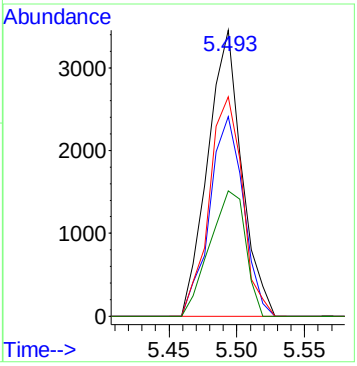


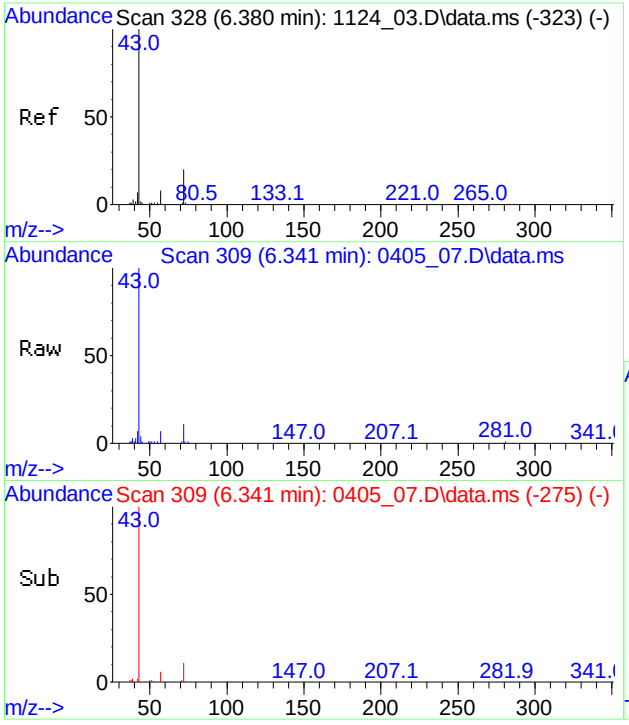



#21
Trichlorotrifluoroethane
Conc: 8$  Below Cal
RT:  5.493 min  Scan# 207
Delta R.T.  -0.009 min
Lab File:  0405_07.D
Acq:  5 Apr 2021  12:43 pm

Tgt Ion:101 Resp:  5987

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 151 | 69.8 | 67.2 | 100.8 |
| 103 | 75.4 | 55.6 | 83.4 |
| 153 | 46.5 | 38.0 | 57.0 |

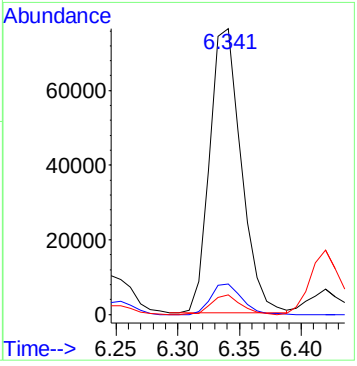


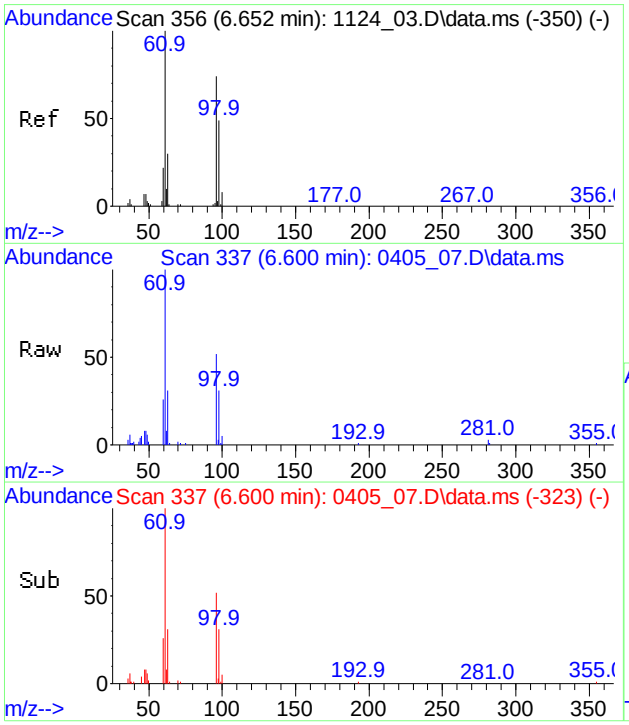




#26
Methyl Ethyl Ketone
Conc: 8$  1.668 ppbv
RT:  6.341 min  Scan# 309
Delta R.T.  -0.031 min
Lab File:  0405_07.D
Acq:  5 Apr 2021  12:43 pm

Tgt Ion: 43 Resp:  135126

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 10.6 | 8.8 | 13.2 |
| 57 | 6.5 | 3.0 | 4.6# |

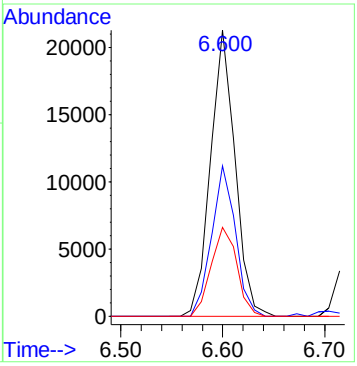


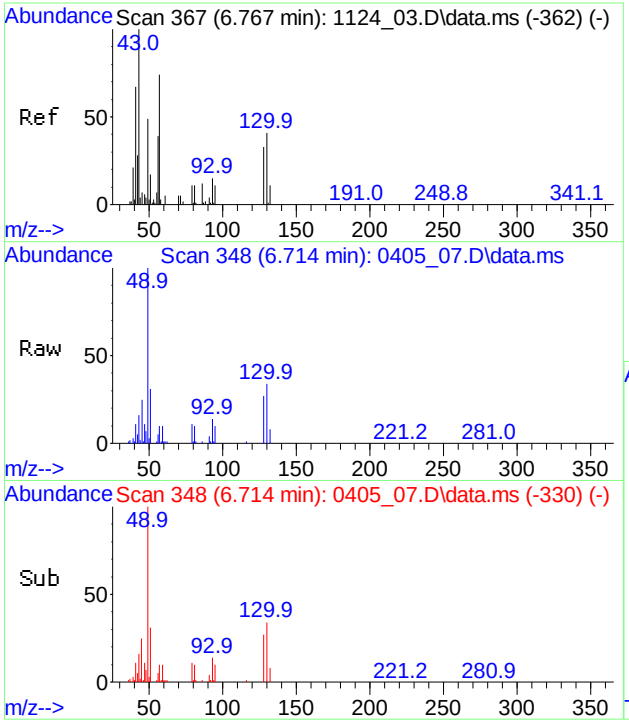



#27
Cis-1,2-Dichloroethene
Conc: 8$ 0.966 ppbv
RT: 6.600 min Scan# 337
Delta R.T. -0.000 min
Lab File: 0405_07.D
Acq: 5 Apr 2021 12:43 pm

Tgt Ion: 61 Resp: 35712

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 61 | 100 | | |
| 96 | 51.2 | 43.9 | 65.9 |
| 98 | 32.7 | 26.4 | 39.6 |

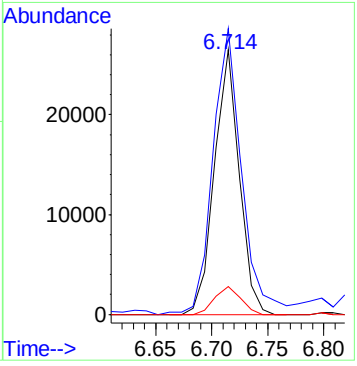


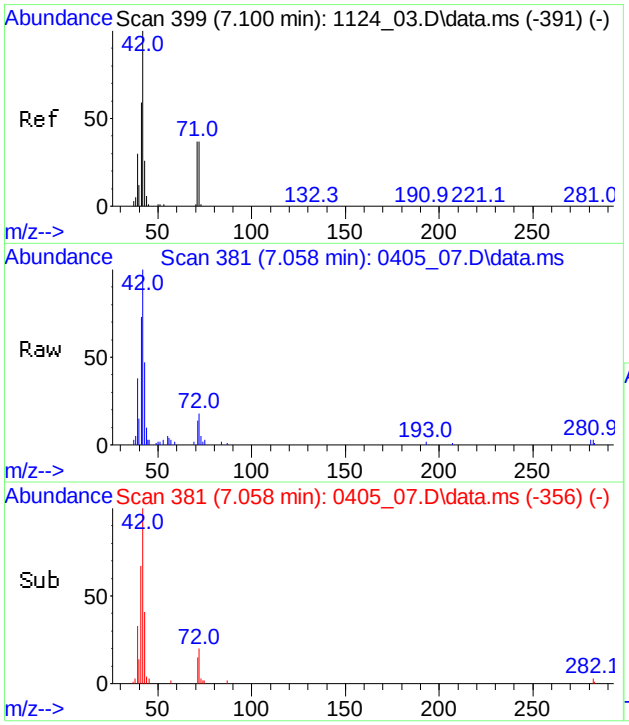




#28
Hexane
Conc: 8$ 0.907 ppbv
RT: 6.714 min Scan# 348
Delta R.T. -0.011 min
Lab File: 0405_07.D
Acq: 5 Apr 2021 12:43 pm

Tgt Ion: 57 Resp: 40679

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 124.9 | 91.8 | 137.8 |
| 86 | 11.1 | 7.4 | 11.2 |

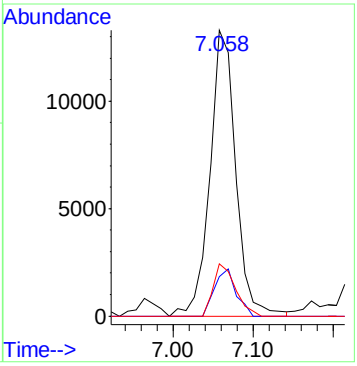


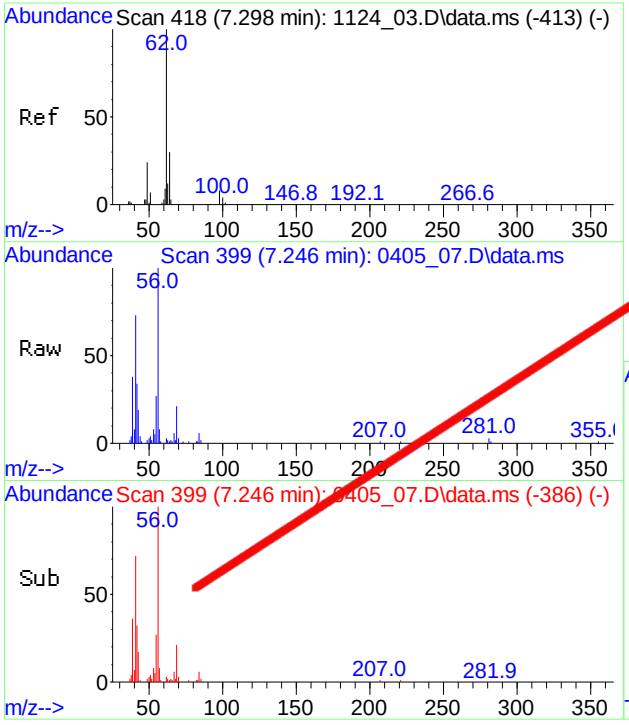



#31
Tetrahydrofuran
Conc: 8$ 0.666 ppbv
RT: 7.058 min Scan# 381
Delta R.T. -0.042 min
Lab File: 0405_07.D
Acq: 5 Apr 2021 12:43 pm

Tgt Ion: 42 Resp: 29269

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 71 | 13.7 | 16.2 | 24.4# |
| 72 | 15.5 | 17.1 | 25.7# |

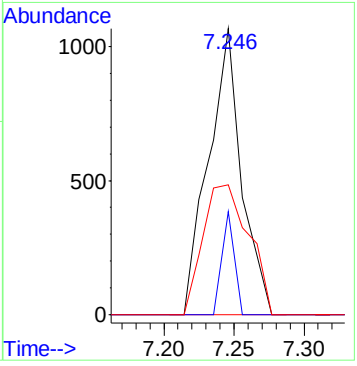


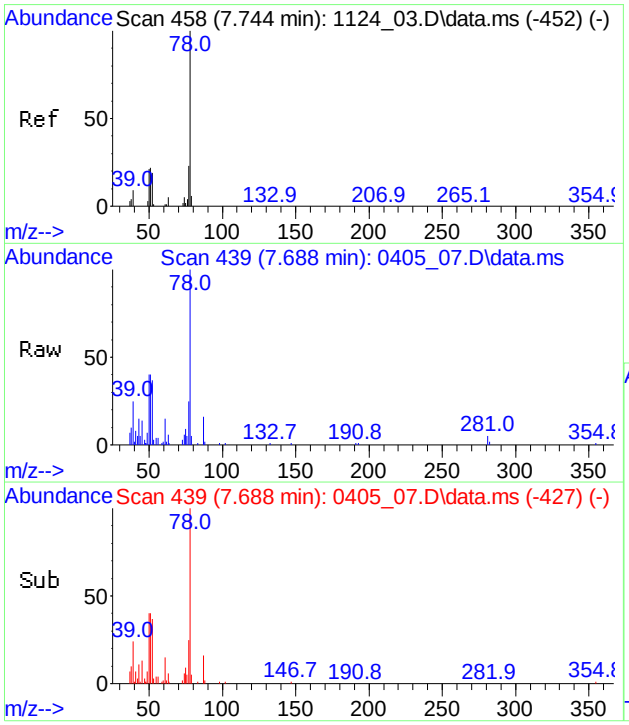




#32
1,2-Dichloroethane
Conc: 8$ Below Cal
RT: 7.246 min Scan# 399
Delta R.T. -0.010 min
Lab File: 0405_07.D
Acq: 5 Apr 2021 12:43 pm

Tgt Ion: 62 Resp: 1751

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 13.7 | 21.7 | 32.5# |
| 49 | 63.2 | 35.0 | 52.4# |

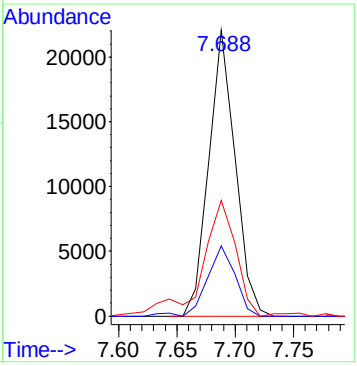


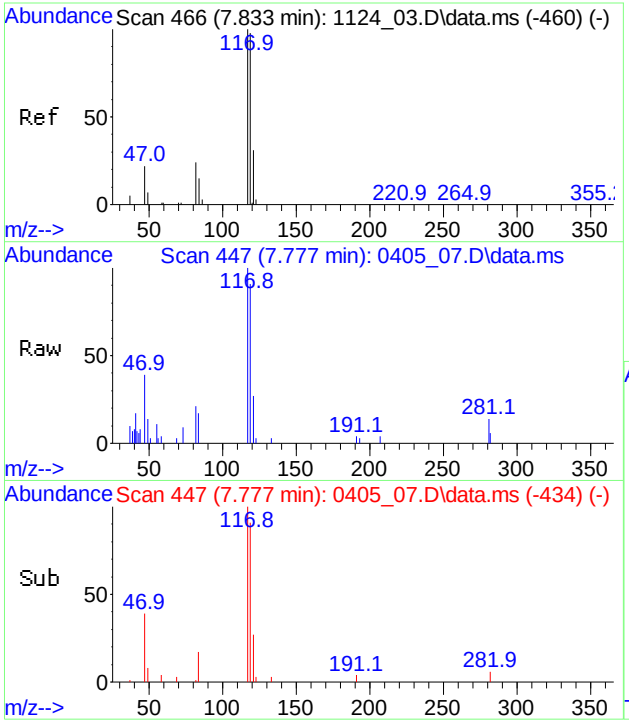



#34
Benzene
Conc: 8$ 0.622 ppbv
RT: 7.688 min Scan# 439
Delta R.T. 0.000 min
Lab File: 0405_07.D
Acq: 5 Apr 2021 12:43 pm

Tgt Ion: 78 Resp: 34723

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 30.5 | 19.7 | 29.5# |
| 51 | 58.9 | 29.8 | 44.6# |

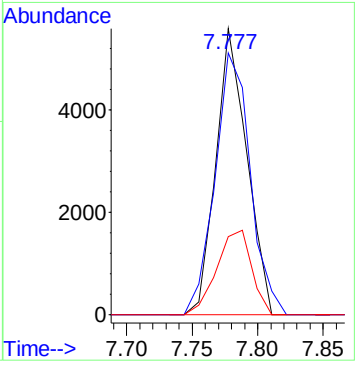


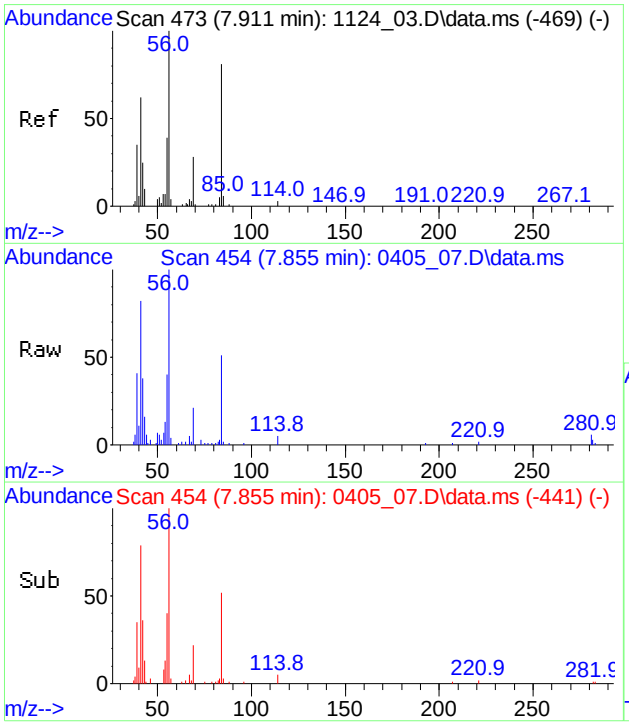




#35
Carbon Tetrachloride
Conc: 8$ 0.165 ppbv
RT: 7.777 min Scan# 447
Delta R.T. -0.011 min
Lab File: 0405_07.D
Acq: 5 Apr 2021 12:43 pm

Tgt Ion:117 Resp: 9206

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 104.4 | 82.1 | 122.1 |
| 121 | 33.3 | 12.6 | 52.6 |

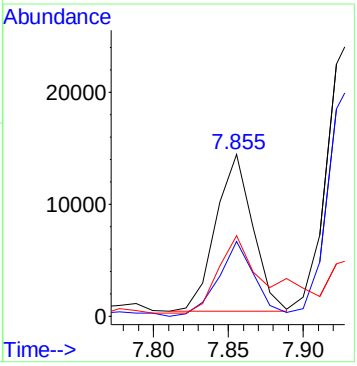


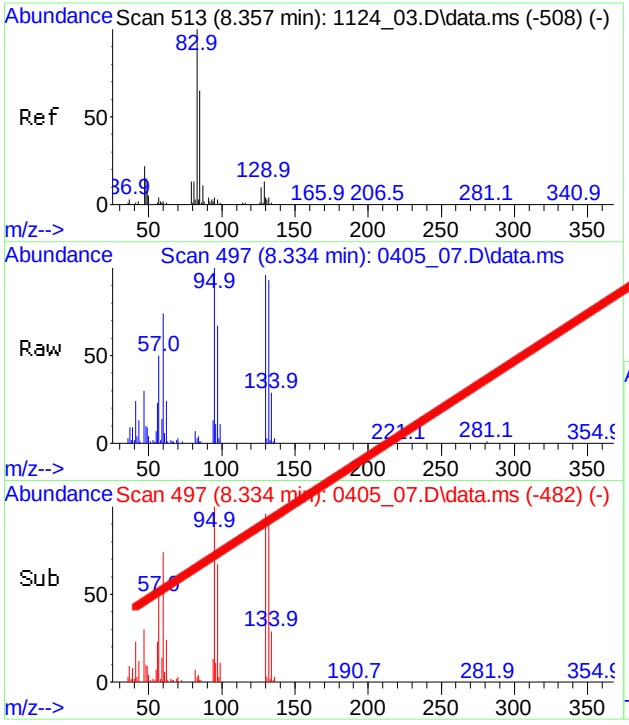



#36
Cyclohexane
Conc: 8$ 0.681 ppbv
RT: 7.855 min Scan# 454
Delta R.T. 0.000 min
Lab File: 0405_07.D
Acq: 5 Apr 2021 12:43 pm

Tgt Ion: 41 Resp: 23889

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 46.9 | 36.9 | 55.3 |
| 55 | 69.6 | 86.2 | 129.4# |

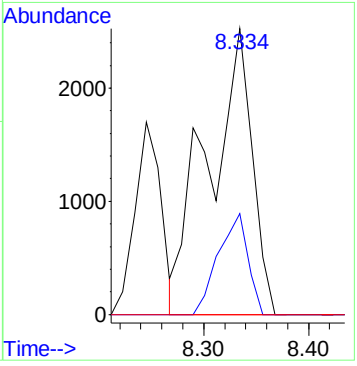


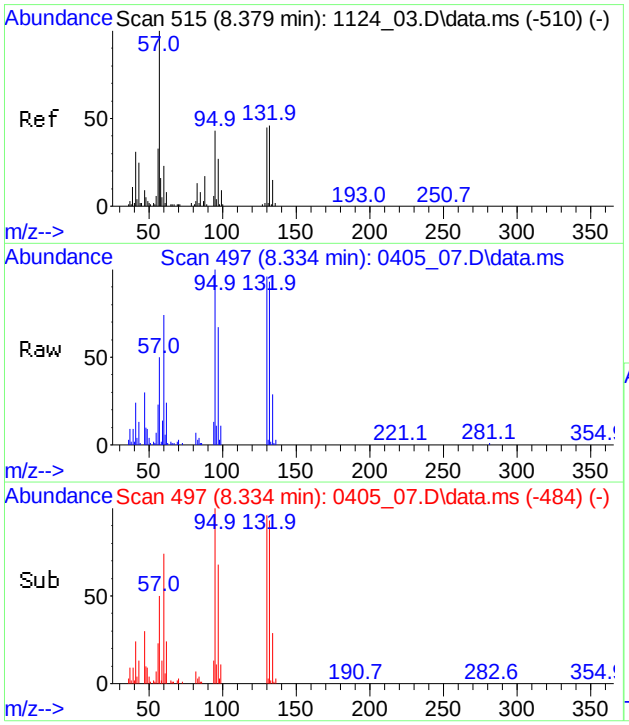




#39
Bromodichloromethane
Conc: 8$ Below Cal
RT: 8.334 min Scan# 497
Delta R.T. 0.022 min
Lab File: 0405_07.D
Acq: 5 Apr 2021 12:43 pm

Tgt Ion: 83 Resp: 7379

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 23.7 | 47.0 | 87.0# |
| 129 | 0.0 | 0.0 | 31.6 |

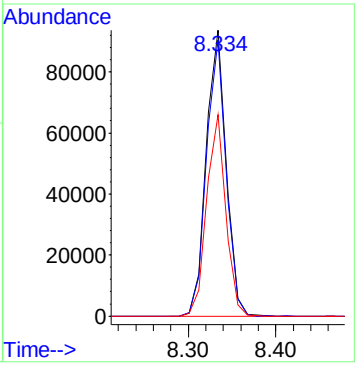


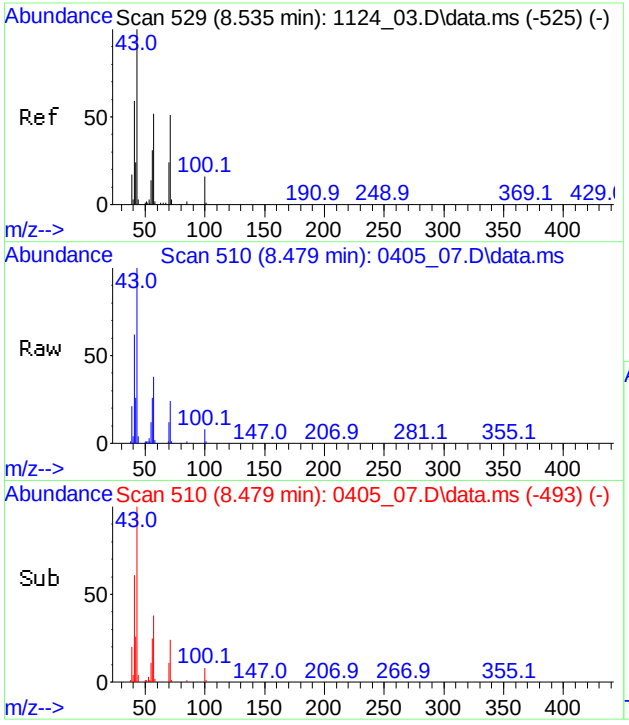



#40
Trichloroethene
Conc: 8$ 5.234 ppbv
RT: 8.334 min Scan# 497
Delta R.T. 0.000 min
Lab File: 0405_07.D
Acq: 5 Apr 2021 12:43 pm

Tgt Ion:130 Resp: 147928

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 132 | 95.1 | 85.0 | 127.6 |
| 97 | 67.5 | 57.5 | 86.3 |

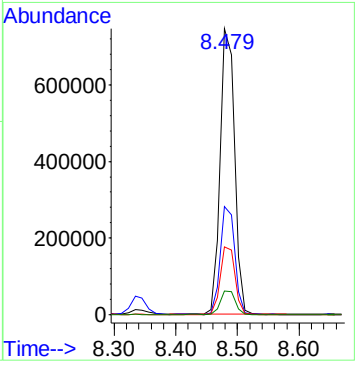


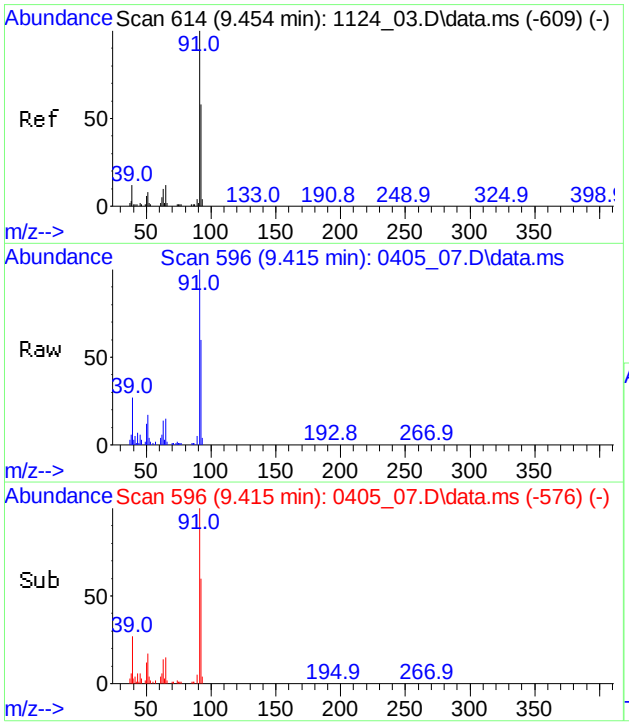




#44
Heptane
Conc: 8$ 16.345 ppbv
RT: 8.479 min Scan# 510
Delta R.T. -0.011 min
Lab File: 0405_07.D
Acq: 5 Apr 2021 12:43 pm

Tgt Ion: 43 Resp: 1201912

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 57 | 37.9 | 31.5 | 47.3 |
| 71 | 24.1 | 24.0 | 36.0 |
| 100 | 8.4 | 7.0 | 10.6 |

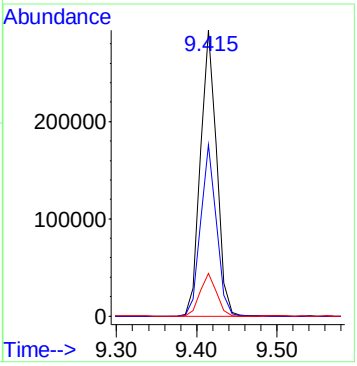


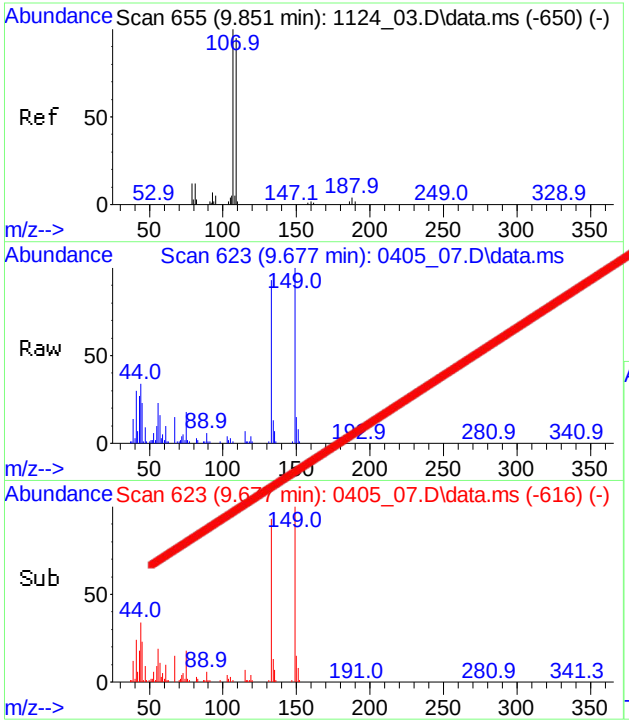



#49
Toluene
Conc: 8$ 5.921 ppbv
RT: 9.415 min Scan# 596
Delta R.T. -0.009 min
Lab File: 0405_07.D
Acq: 5 Apr 2021 12:43 pm

Tgt Ion: 91 Resp: 415981

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 58.4 | 46.8 | 70.2 |
| 65 | 15.2 | 11.5 | 17.3 |

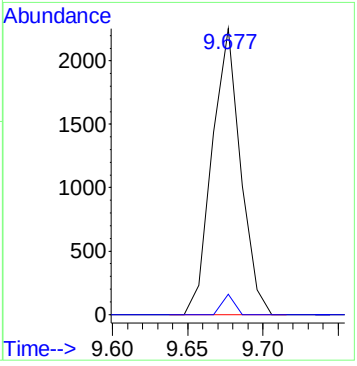


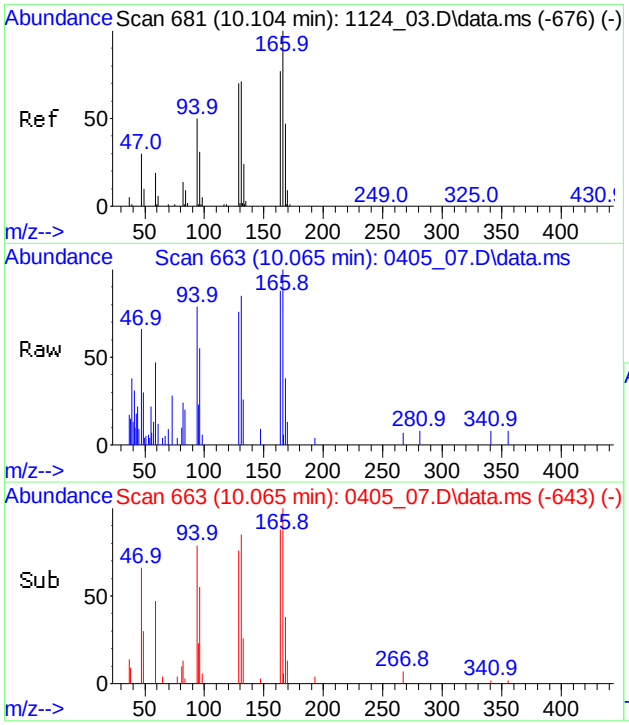




#52
1,2-Dibromoethane(EDB)
Conc: 8$ Below Cal
RT: 9.677 min Scan# 623
Delta R.T. -0.135 min
Lab File: 0405_07.D
Acq: 5 Apr 2021 12:43 pm

Tgt Ion:107 Resp: 2986

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 3.1 | 77.8 | 116.8# |

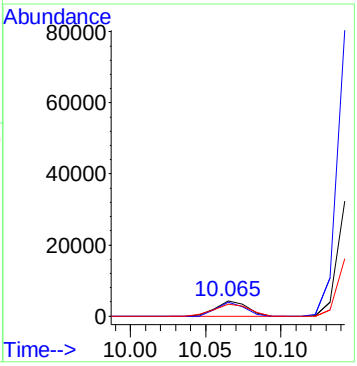


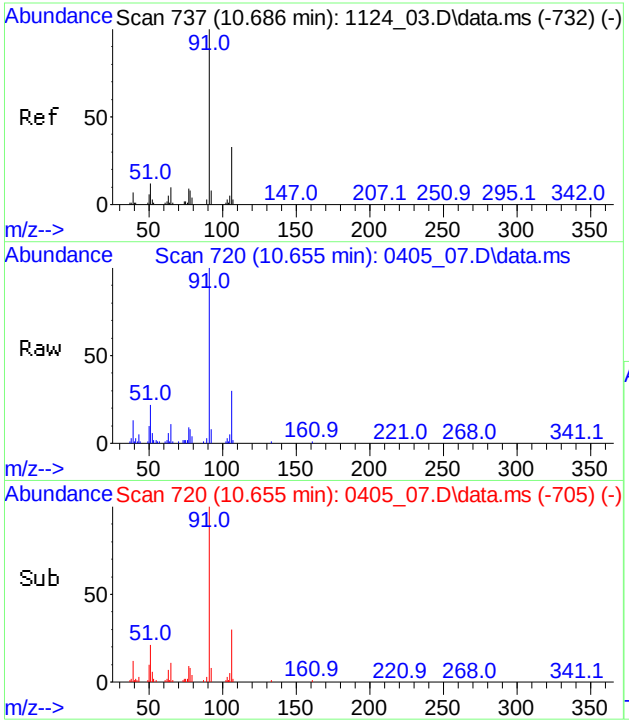



#53
Tetrachloroethene
Conc: 8$ 0.177 ppbv
RT: 10.065 min Scan# 663
Delta R.T. -0.010 min
Lab File: 0405_07.D
Acq: 5 Apr 2021 12:43 pm

Tgt Ion:166 Resp: 6234

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 164 | 80.0 | 52.6 | 78.8# |
| 129 | 86.3 | 55.5 | 83.3# |

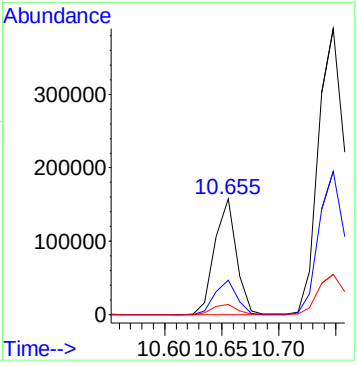


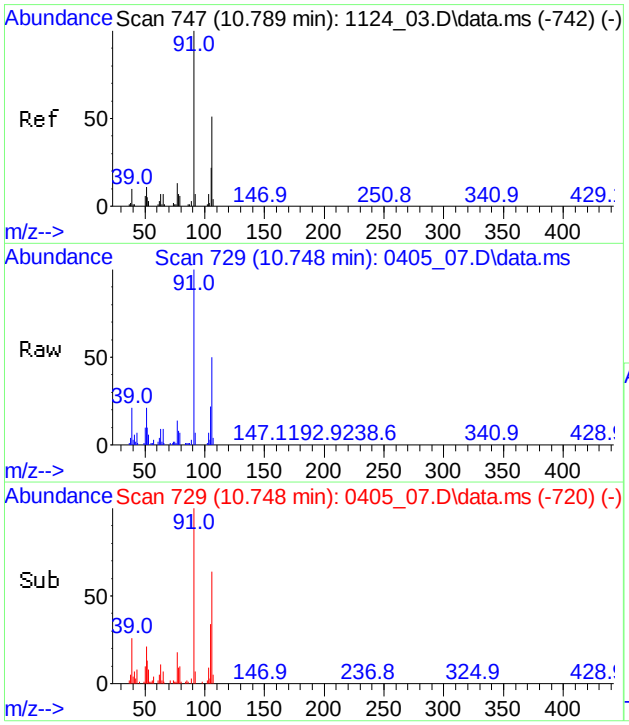




#57
Ethylbenzene
Conc: 8$ 2.082 ppbv
RT: 10.655 min Scan# 720
Delta R.T. 0.000 min
Lab File: 0405_07.D
Acq: 5 Apr 2021 12:43 pm

Tgt Ion: 91 Resp: 209059

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 29.7 | 6.6 | 46.6 |
| 77 | 9.6 | 0.0 | 31.2 |

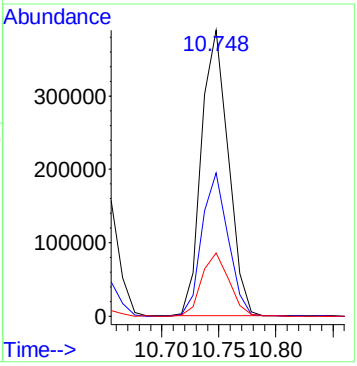


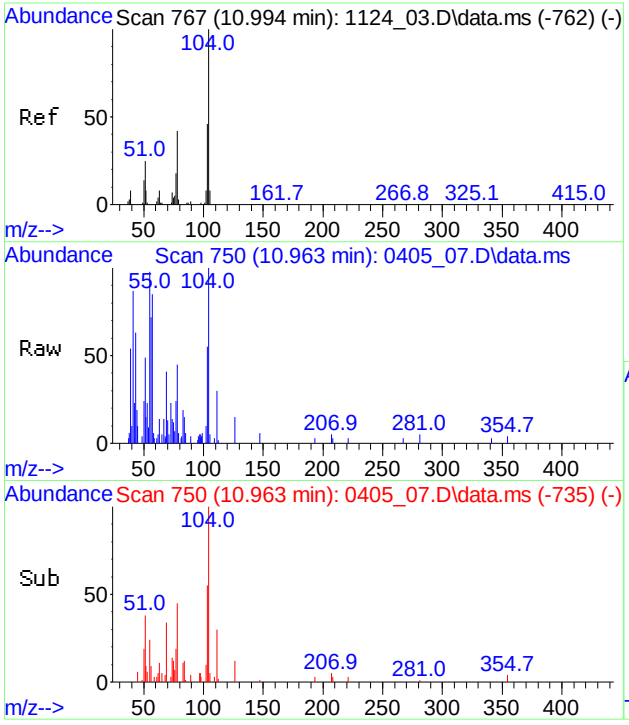



#58
m,p-Xylene
Conc: 8$ 8.352 ppbv
RT: 10.748 min Scan# 729
Delta R.T. -0.010 min
Lab File: 0405_07.D
Acq: 5 Apr 2021 12:43 pm

Tgt Ion: 91 Resp: 637631

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 49.0 | 36.6 | 54.8 |
| 105 | 22.3 | 17.4 | 26.0 |

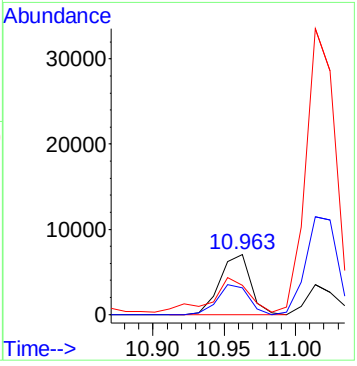


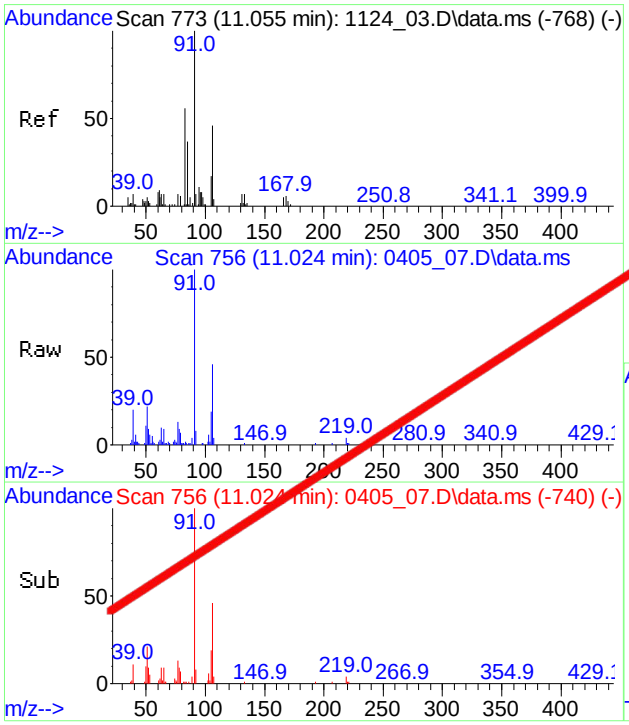




#60
Styrene
Conc: 8$ 0.202 ppbv
RT: 10.963 min Scan# 750
Delta R.T. -0.000 min
Lab File: 0405_07.D
Acq: 5 Apr 2021 12:43 pm

Tgt Ion:104 Resp: 10545

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 50.2 | 37.5 | 56.3 |
| 51 | 68.6 | 41.0 | 61.6# |

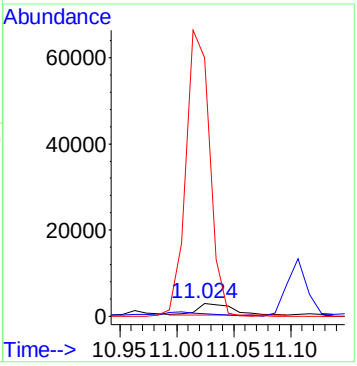


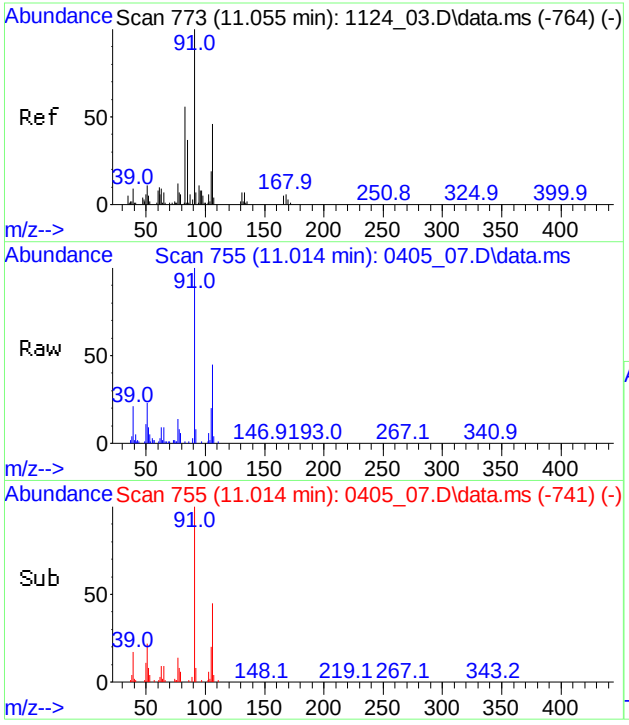



#61
1,1,2,2-Tetrachloroethane
Conc: 8$  Below Cal
RT:  11.024 min  Scan# 756
Delta R.T.  0.010 min
Lab File:  0405_07.D
Acq:  5 Apr 2021  12:43 pm

Tgt Ion: 83 Resp:  5378

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 37.4 | 57.7 | 86.5# |
| 106 | 1819.8 | 61.1 | 91.7# |

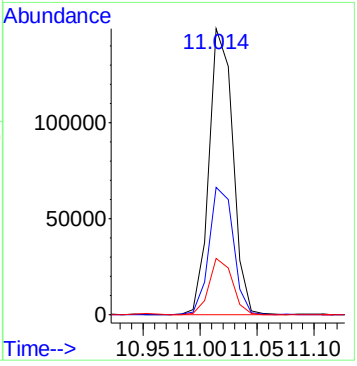


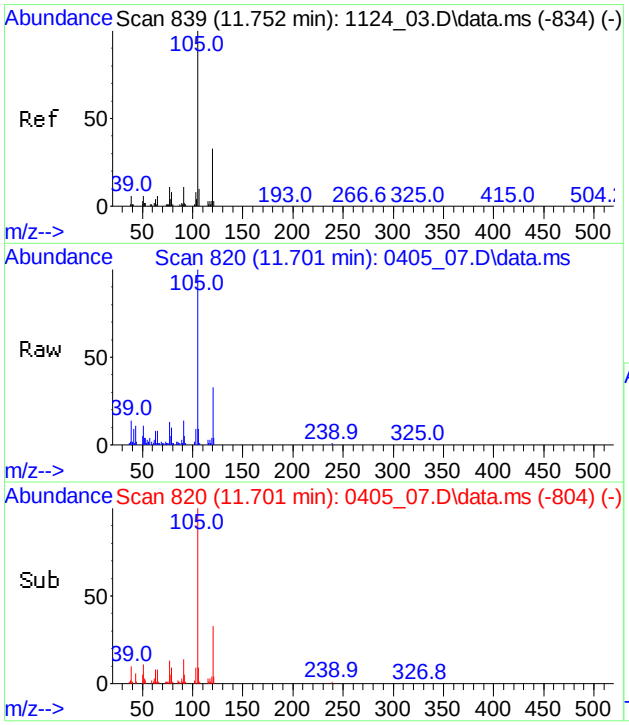




#62
o-Xylene
Conc: 8$  2.632 ppbv
RT:  11.014 min  Scan# 755
Delta R.T.  -0.010 min
Lab File:  0405_07.D
Acq:  5 Apr 2021  12:43 pm

Tgt Ion: 91 Resp:  214998

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 45.5 | 41.5 | 62.3 |
| 105 | 19.1 | 15.7 | 23.5 |

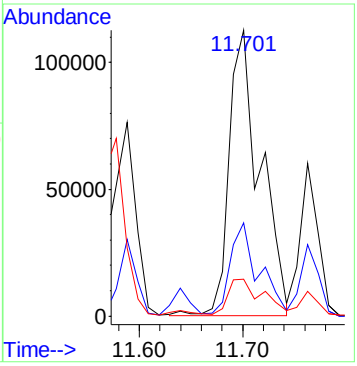


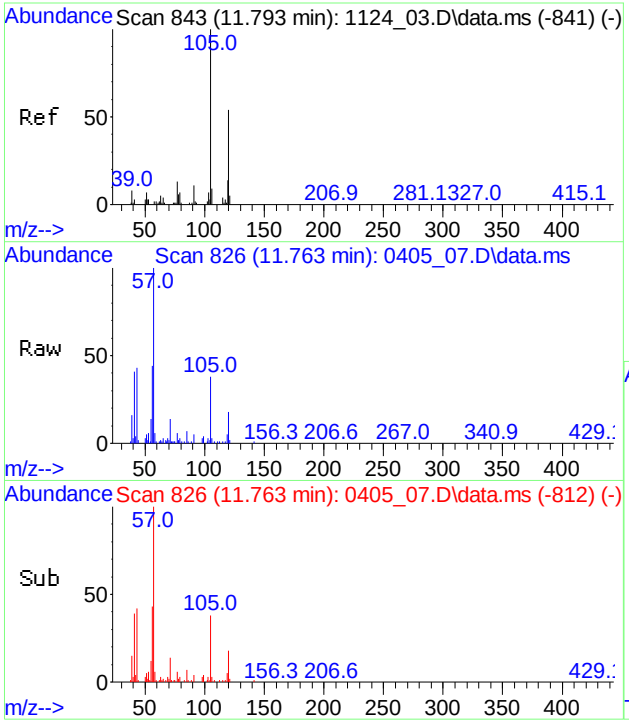



#67
4-Ethyltoluene
Conc: 8$ 2.101 ppbv
RT: 11.701 min Scan# 820
Delta R.T. -0.020 min
Lab File: 0405_07.D
Acq: 5 Apr 2021 12:43 pm

Tgt Ion:105 Resp: 235621

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 30.6 | 24.6 | 36.8 |
| 77 | 14.6 | 11.8 | 17.8 |

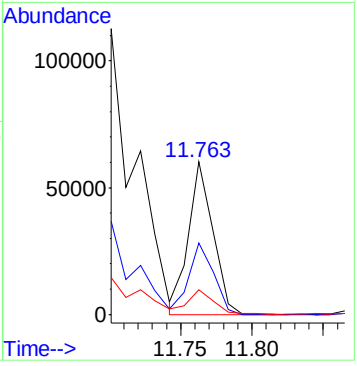


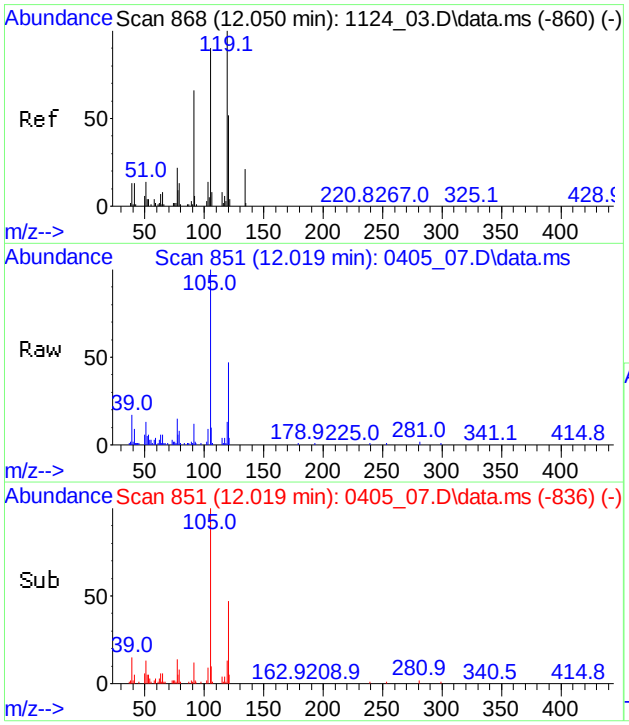




#68
1,3,5-Trimethylbenzene
Conc: 8$ 0.768 ppbv
RT: 11.763 min Scan# 826
Delta R.T. -0.010 min
Lab File: 0405_07.D
Acq: 5 Apr 2021 12:43 pm

Tgt Ion:105 Resp: 71720

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 47.6 | 39.0 | 58.6 |
| 77 | 17.5 | 9.0 | 13.4# |

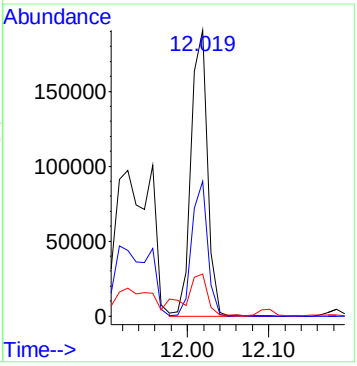


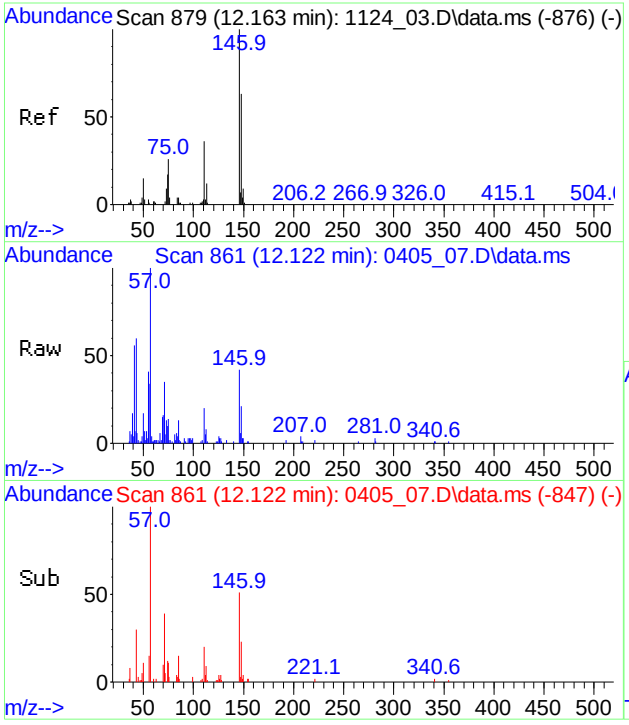



#69
1,2,4-Trimethylbenzene
Conc: 8$ 2.797 ppbv
RT: 12.019 min Scan# 851
Delta R.T. 0.000 min
Lab File: 0405_07.D
Acq: 5 Apr 2021 12:43 pm

Tgt Ion:105 Resp: 266418

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 45.5 | 45.3 | 67.9 |
| 77 | 15.3 | 20.9 | 31.3# |

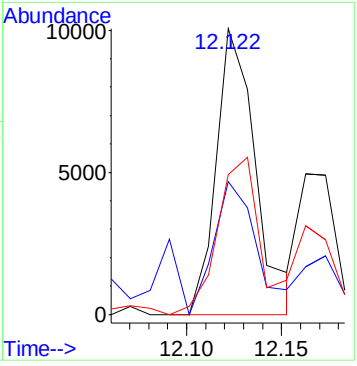


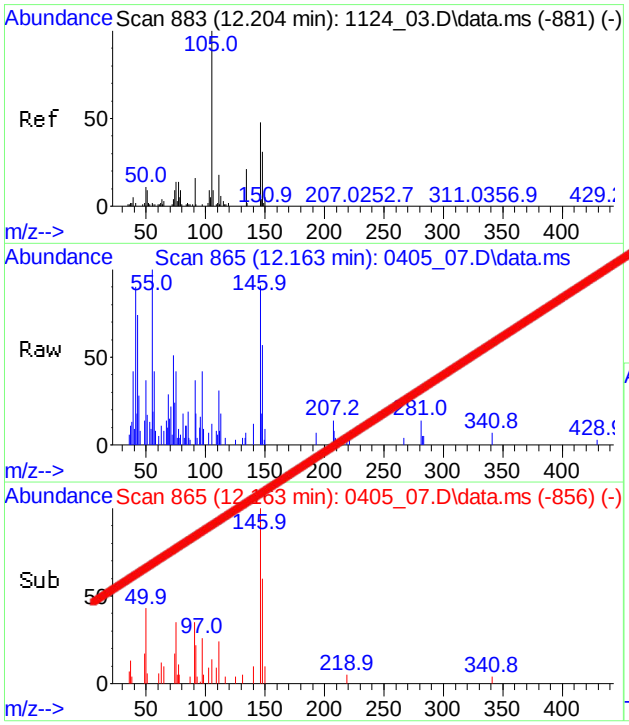




#72
1,3-Dichlorobenzene
Conc: 8$ 0.280 ppbv
RT: 12.122 min Scan# 861
Delta R.T. -0.010 min
Lab File: 0405_07.D
Acq: 5 Apr 2021 12:43 pm

Tgt Ion:146 Resp: 14516

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 51.1 | 34.6 | 52.0 |
| 148 | 60.5 | 53.1 | 79.7 |

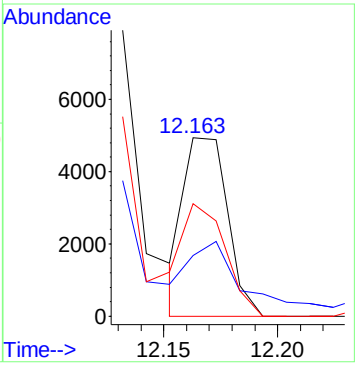


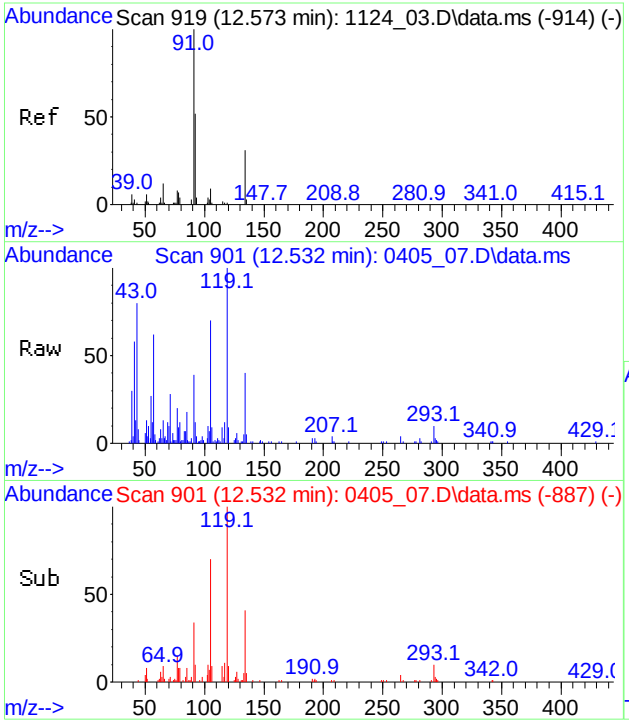



#73
1,4-Dichlorobenzene
Conc: 8$  Below Cal
RT: 12.163 min Scan# 865
Delta R.T. -0.010 min
Lab File: 0405_07.D
Acq: 5 Apr 2021 12:43 pm

Tgt Ion:146 Resp: 6570

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 45.0 | 33.9 | 50.9 |
| 148 | 60.3 | 51.3 | 76.9 |

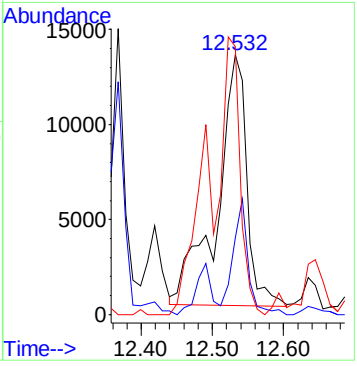


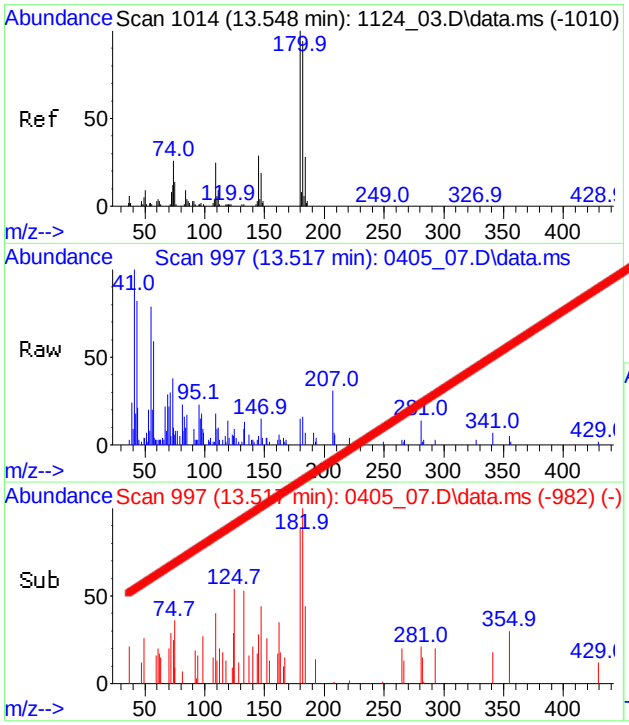




#77
n-Butylbenzene
Conc: 8$ 0.410 ppbv
RT: 12.532 min Scan# 901
Delta R.T. -0.010 min
Lab File: 0405_07.D
Acq: 5 Apr 2021 12:43 pm

Tgt Ion: 91 Resp: 38286

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 23.5 | 42.1 | 63.1# |
| 134 | 66.5 | 19.0 | 28.6# |

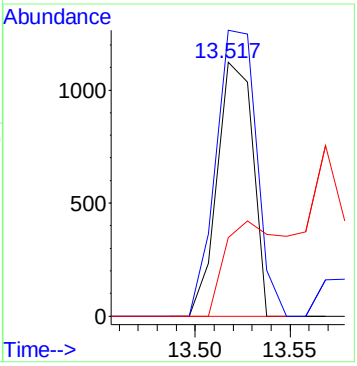


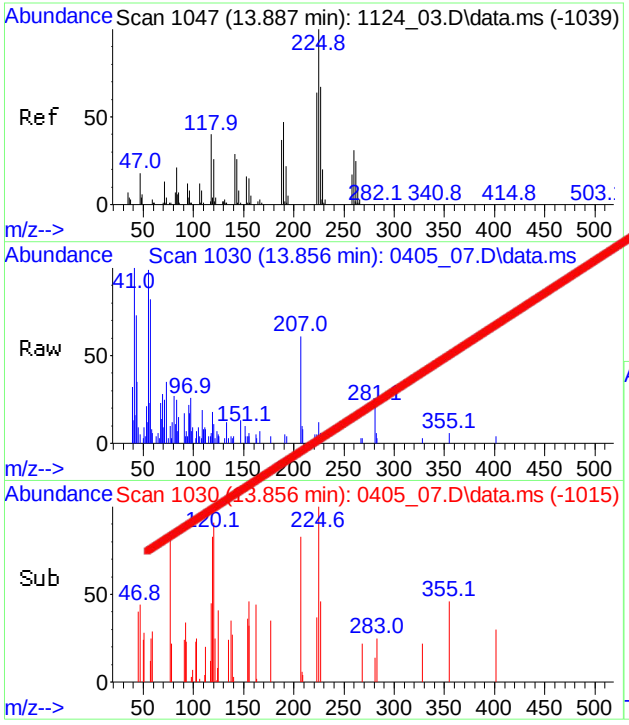



#78
1,2,4-Trichlorobenzene
Conc: 8$  Below Cal
RT: 13.517 min Scan# 997
Delta R.T. 0.000 min
Lab File: 0405_07.D
Acq: 5 Apr 2021 12:43 pm

Tgt Ion:180 Resp: 1473

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 128.8 | 90.8 | 136.2 |
| 145 | 62.0 | 40.0 | 60.0# |

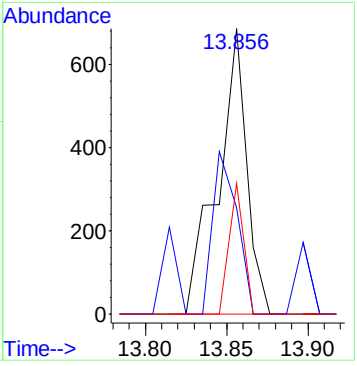


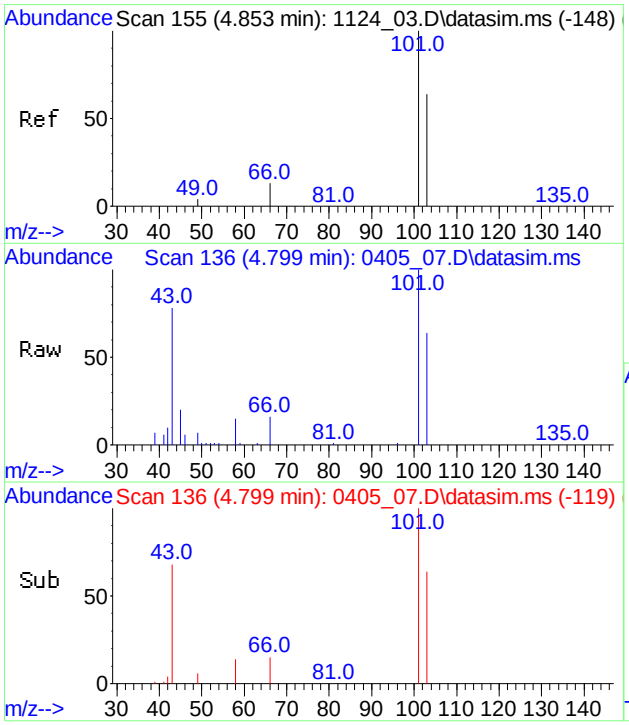




#80
Hexachlorobutadiene
Conc: 8$  Below Cal
RT: 13.856 min Scan# 1030
Delta R.T. 0.000 min
Lab File: 0405_07.D
Acq: 5 Apr 2021 12:43 pm

Tgt Ion:225 Resp: 844

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 47.2 | 36.1 | 84.3 |
| 227 | 22.9 | 39.7 | 92.7# |

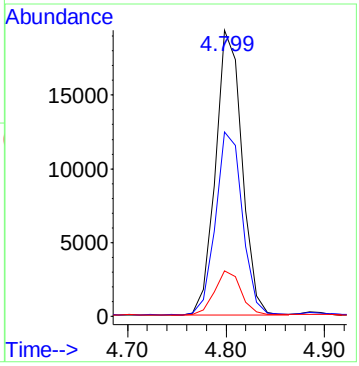


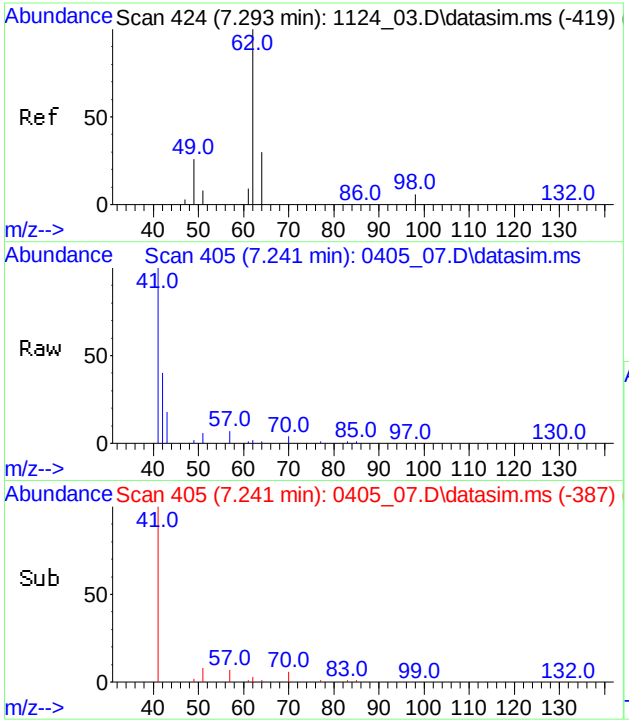



#85
Trichlorofluoromethane(sim)
Conc: 8$ 0.524 ppbv
RT: 4.799 min Scan# 136
Delta R.T. -0.021 min
Lab File: 0405_07.D
Acq: 5 Apr 2021 12:43 pm

Tgt Ion:101 Resp: 36337

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 64.9 | 51.7 | 77.5 |
| 66 | 15.5 | 14.7 | 14.7# |

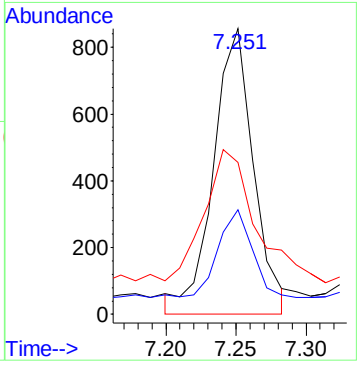


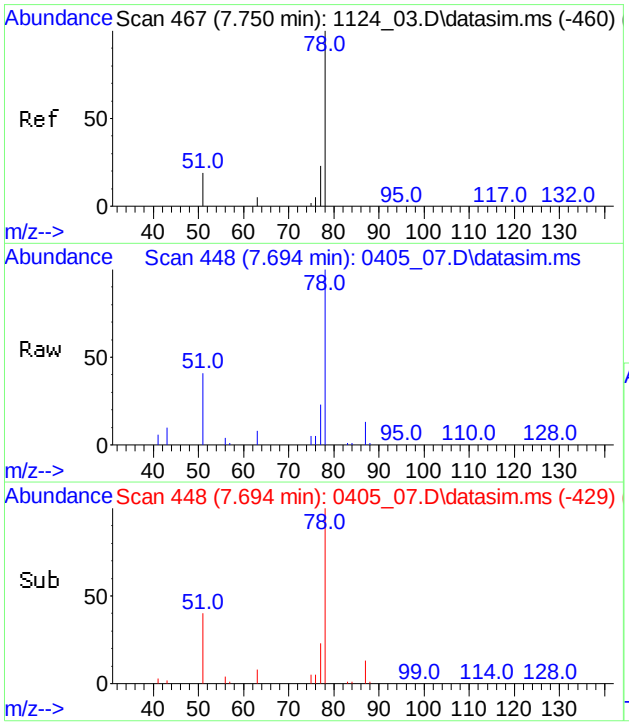




#86
1,2-Dichloroethane(sim)
Conc: 8$ 0.039 ppbv
RT: 7.246 min Scan# 405
Delta R.T. -0.010 min
Lab File: 0405_07.D
Acq: 5 Apr 2021 12:43 pm

Tgt Ion: 62 Resp: 1751

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 13.7 | 21.7 | 32.5# |
| 49 | 63.2 | 35.0 | 52.4# |

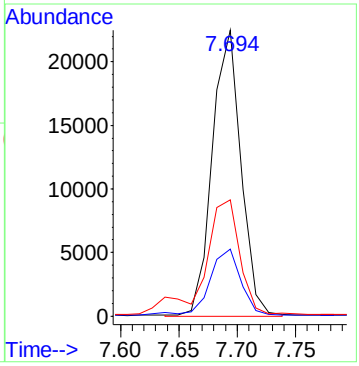


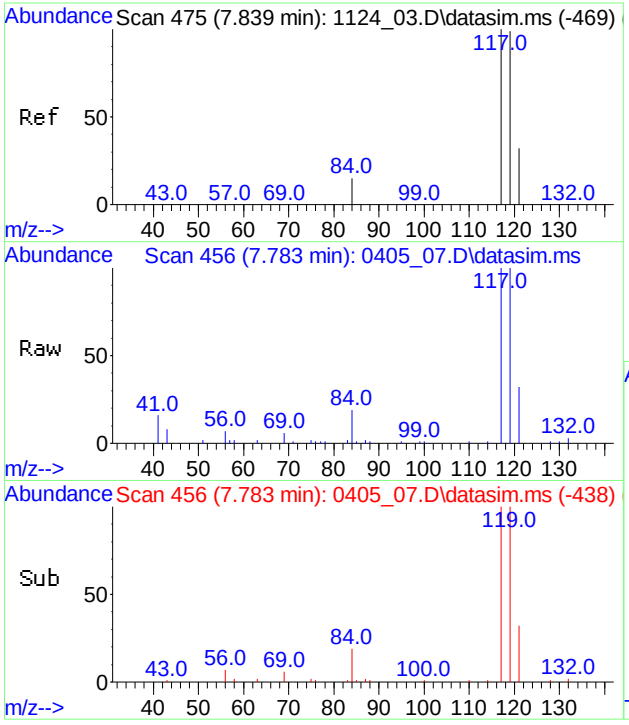



#88
Benzene(sim)
Conc: 8$ 0.600 ppbv
RT: 7.688 min Scan# 448
Delta R.T. 0.000 min
Lab File: 0405_07.D
Acq: 5 Apr 2021 12:43 pm

Tgt Ion: 78 Resp: 34723

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 30.5 | 19.7 | 29.5# |
| 51 | 58.2 | 29.8 | 44.6# |

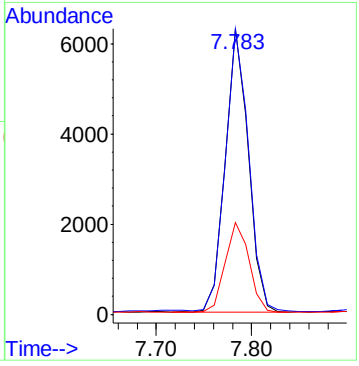


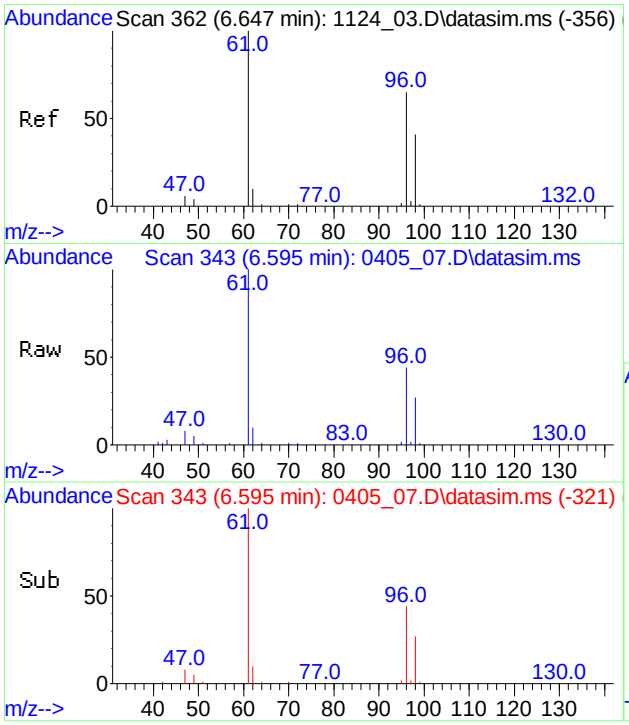




#89
Carbon Tetrachloride(sim)
Conc: 8$ 0.169 ppbv
RT: 7.783 min Scan# 456
Delta R.T. -0.000 min
Lab File: 0405_07.D
Acq: 5 Apr 2021 12:43 pm

Tgt Ion:117 Resp: 10546

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 100.9 | 80.2 | 120.2 |
| 121 | 32.8 | 25.4 | 38.2 |

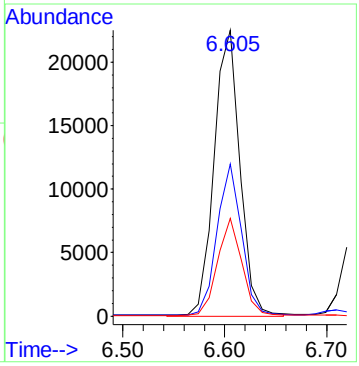


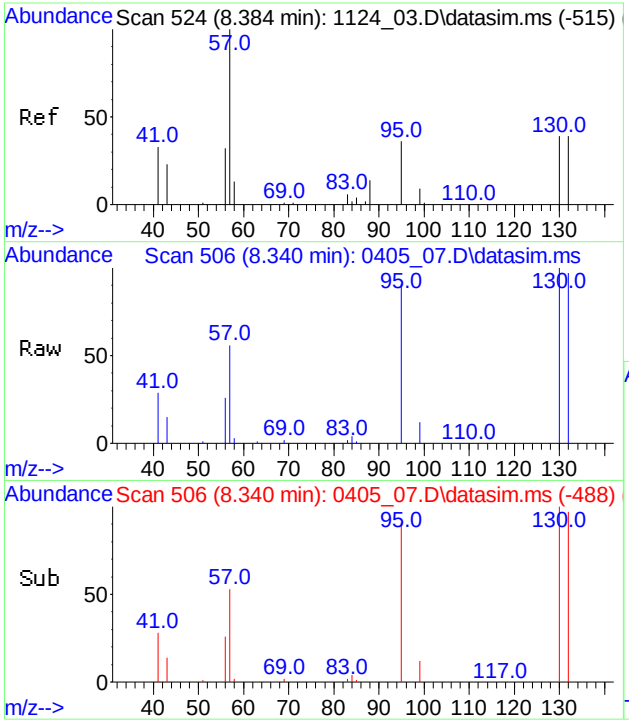



#94
Cis-1,2-Dichloroethene(sim)
Conc: 8$ 0.923 ppbv
RT: 6.600 min Scan# 343
Delta R.T. -0.000 min
Lab File: 0405_07.D
Acq: 5 Apr 2021 12:43 pm

Tgt Ion: 61 Resp: 35712

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 61 | 100 | | |
| 96 | 51.2 | 43.9 | 65.9 |
| 98 | 32.7 | 26.4 | 39.6 |

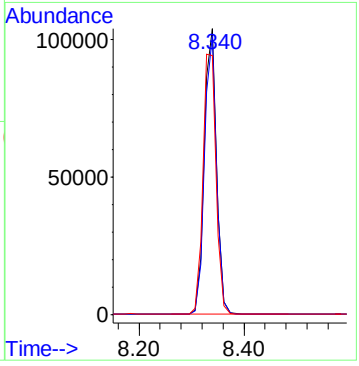


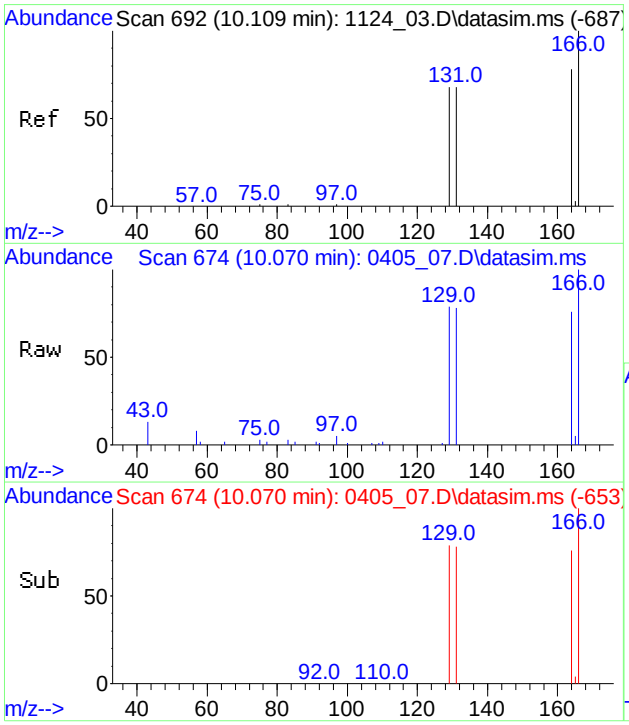




#99
Trichloroethene(sim)
Conc: 8$ 5.073 ppbv
RT: 8.340 min Scan# 506
Delta R.T. -0.000 min
Lab File: 0405_07.D
Acq: 5 Apr 2021 12:43 pm

Tgt Ion:130 Resp: 170011

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 132 | 95.7 | 78.1 | 117.1 |
| 95 | 98.2 | 75.8 | 113.6 |

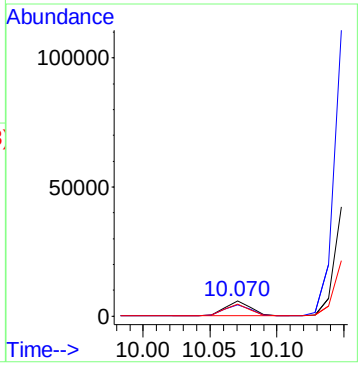


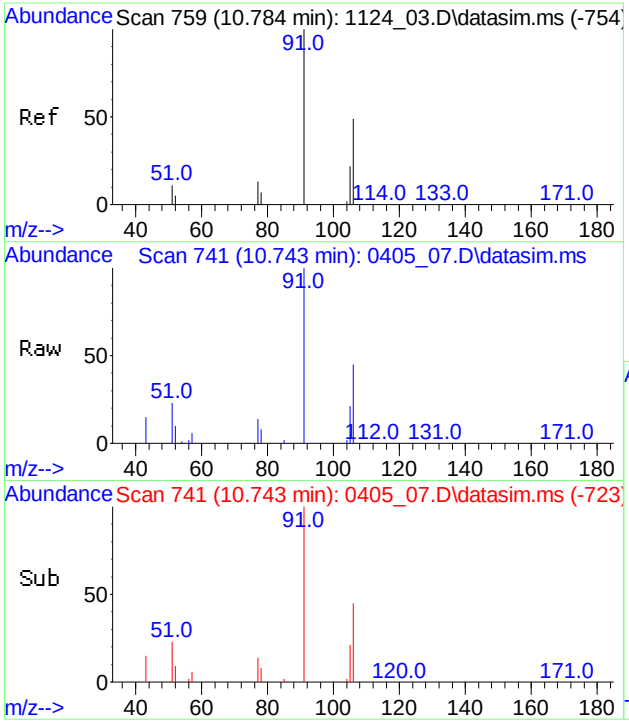



#105
Tetrachloroethene(sim)
Conc: 8$ 0.186 ppbv
RT: 10.070 min Scan# 674
Delta R.T. 0.000 min
Lab File: 0405_07.D
Acq: 5 Apr 2021 12:43 pm

Tgt Ion:166 Resp: 7819

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 164 | 78.8 | 58.1 | 98.1 |
| 129 | 78.6 | 56.6 | 96.6 |

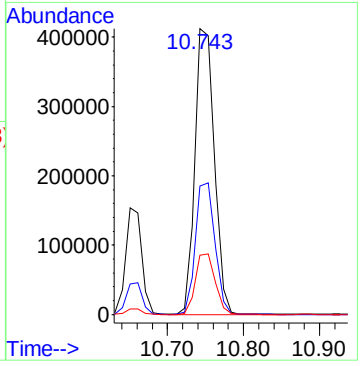


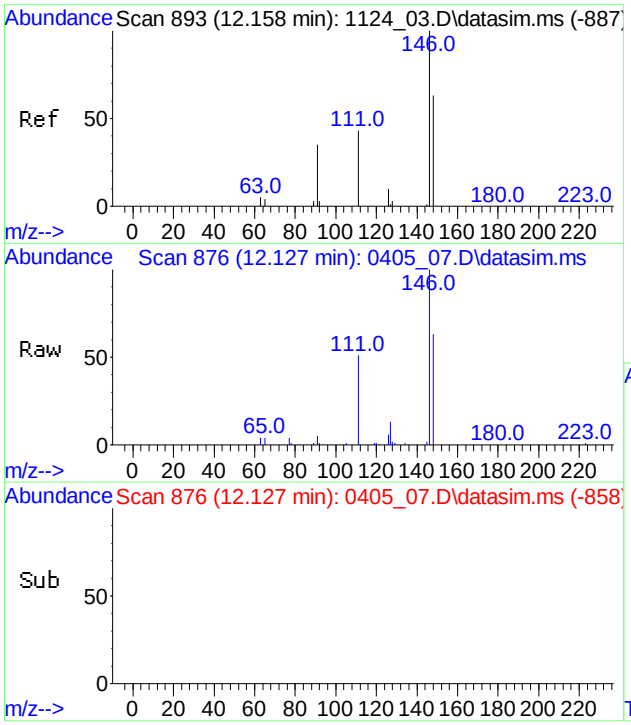




#108
m,p-Xylene(sim)
Conc: 8$ 7.799 ppbv
RT: 10.748 min Scan# 741
Delta R.T. -0.010 min
Lab File: 0405_07.D
Acq: 5 Apr 2021 12:43 pm

Tgt Ion: 91 Resp: 641198

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 48.7 | 41.1 | 50.3 |
| 105 | 22.2 | 17.4 | 26.0 |

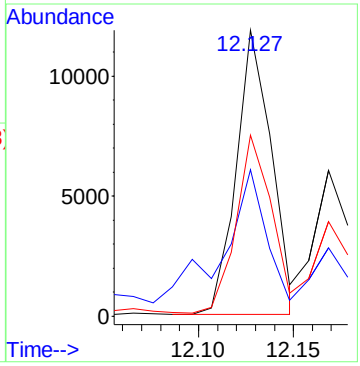


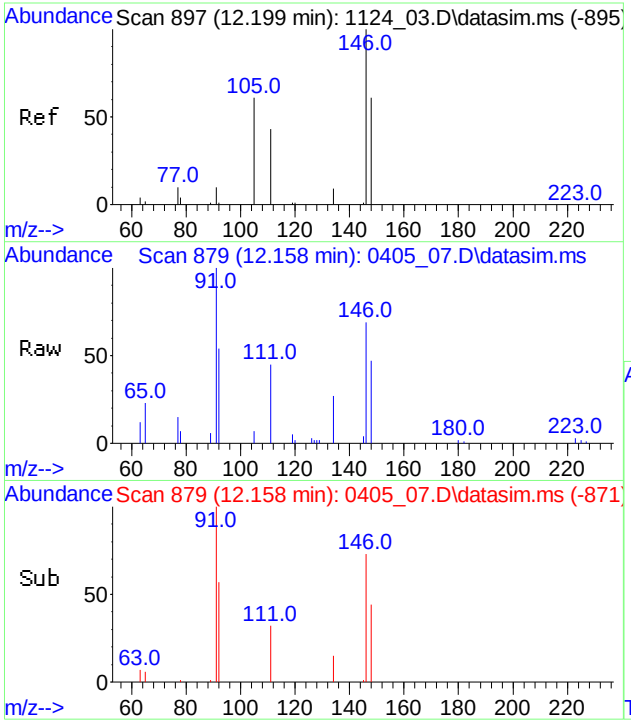



#113
1,3-Dichlorobenzene(sim)
Conc: 8$ 0.281 ppbv
RT: 12.127 min Scan# 876
Delta R.T. -0.011 min
Lab File: 0405_07.D
Acq: 5 Apr 2021 12:43 pm

Tgt Ion:146 Resp: 15363

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 54.0 | 30.3 | 45.5# |
| 148 | 63.3 | 50.5 | 75.7 |

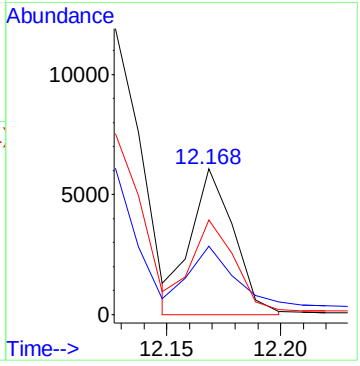



#114
1,4-Dichlorobenzene(sim)
Conc: 8$ 0.161 ppbv
RT: 12.163 min Scan# 879
Delta R.T. -0.010 min
Lab File: 0405_07.D
Acq: 5 Apr 2021 12:43 pm

Tgt Ion:146 Resp: 6570

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 45.0 | 22.4 | 62.4 |
| 148 | 60.3 | 43.0 | 83.0 |



AIR ANALYSIS DATA SHEET

CLIENT ID: CH91177 BLANK

Client: GC-ENV Lab: Phoenix Env. Labs

SDG No.: GCH92051 Lab Sample ID: CH91177 BL

Canister: BL Lab File ID: 0405_06.D

Instrument: CHEM20 Column: RTX-1 60M Date Received: 04/02/21

Purge Volume 200 (cc) Date Analyzed: 04/05/21

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

| CAS NO. | COMPOUND | CONC. | Q | MDL | PQL | R |
|---|---|---|---|---|---|---|
| 115-07-1 | Propylene | 0.250 | U | 0.250 | 0.250 | r |
| 75-71-8 | Dichlorodifluoromethane | 0.250 | U | 0.250 | 0.250 | r |
| 74-87-3 | Chloromethane | 0.250 | U | 0.250 | 0.250 | r |
| 106-99-0 | 1,3-Butadiene | 0.250 | U | 0.250 | 0.250 | r |
| 75-00-3 | Chloroethane | 0.250 | U | 0.250 | 0.250 | r |
| 64-17-5 | Ethanol | 0.375 | U | 0.375 | 0.375 | r |
| 67-64-1 | Acetone | 0.375 | U | 0.375 | 0.375 | r |
| 67-63-0 | Isopropylalcohol | 0.375 | U | 0.375 | 0.375 | r |
| 107-13-1 | Acrylonitrile | 0.250 | U | 0.250 | 0.250 | r |
| 75-09-2 | Methylene Chloride | 1.50 | U | 1.50 | 1.50 | r |
| 75-15-0 | Carbon Disulfide | 0.250 | U | 0.250 | 0.250 | r |
| 1634-04-4 | Methyl tert-butyl ether(MTBE) | 0.250 | U | 0.250 | 0.250 | r |
| 78-93-3 | Methyl Ethyl Ketone | 0.225 | U | 0.225 | 0.225 | r |
| 110-54-3 | Hexane | 0.225 | U | 0.225 | 0.225 | r |
| 141-78-6 | Ethyl acetate | 0.250 | U | 0.250 | 0.250 | r |
| 109-99-9 | Tetrahydrofuran | 0.250 | U | 0.250 | 0.250 | r |
| 110-82-7 | Cyclohexane | 0.250 | U | 0.250 | 0.250 | r |
| 142-82-5 | Heptane | 0.250 | U | 0.250 | 0.250 | r |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | 0.250 | U | 0.250 | 0.250 | r |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.250 | U | 0.250 | 0.250 | r |
| 108-88-3 | Toluene | 0.250 | U | 0.250 | 0.250 | r |
| 591-78-6 | 2-Hexanone(MBK) | 0.250 | U | 0.250 | 0.250 | r |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 0.250 | U | 0.250 | 0.250 | r |
| 108-90-7 | Chlorobenzene | 0.100 | U | 0.100 | 0.100 | r |
| 100-41-4 | Ethylbenzene | 0.250 | U | 0.250 | 0.250 | r |
| 100-42-5 | Styrene | 0.100 | U | 0.100 | 0.100 | r |
| 95-47-6 | o-Xylene | 0.250 | U | 0.250 | 0.250 | r |
| 98-82-8 | Isopropylbenzene | 0.250 | U | 0.250 | 0.250 | r |
| 622-96-8 | 4-Ethyltoluene | 0.250 | U | 0.250 | 0.250 | r |
| 108-67-8 | 1,3,5-Trimethylbenzene | 0.250 | U | 0.250 | 0.250 | r |
| 95-63-6 | 1,2,4-Trimethylbenzene | 0.250 | U | 0.250 | 0.250 | r |
| 76-14-2 | 1,2-Dichlorotetrafluoroethane(sim) | 0.250 | U | 0.250 | 0.250 | r |
| 75-01-4 | Vinyl Chloride(sim) | 0.050 | U | 0.050 | 0.050 | r |
| 74-83-9 | Bromomethane(sim) | 0.070 | U | 0.070 | 0.070 | r |
| 75-69-4 | Trichlorofluoromethane(sim) | 0.250 | U | 0.250 | 0.250 | r |
| 107-06-2 | 1,2-Dichloroethane(sim) | 0.010 | U | 0.010 | 0.010 | 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: CH91177 BLANK

Client: GC-ENV Lab: Phoenix Env. Labs

SDG No.: GCH92051 Lab Sample ID: CH91177 BL

Canister: BL Lab File ID: 0405_06.D

Instrument: CHEM20 Column: RTX-1 60M Date Received: 04/02/21

Purge Volume 200 (cc) Date Analyzed: 04/05/21

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) | 0.250 | U | 0.250 | 0.250 | r |
| 71-43-2 | Benzene(sim) | 0.100 | U | 0.100 | 0.100 | r |
| 56-23-5 | Carbon Tetrachloride(sim) | 0.043 | U | 0.043 | 0.043 | r |
| 75-35-4 | 1,1-Dichloroethene(sim) | 0.100 | U | 0.100 | 0.100 | r |
| 76-13-1 | Trichlorotrifluoroethane(sim) | 0.250 | U | 0.250 | 0.250 | r |
| 156-60-5 | Trans-1,2-Dichloroethene(sim) | 0.100 | U | 0.100 | 0.100 | r |
| 75-34-3 | 1,1-Dichloroethane(sim) | 0.075 | U | 0.075 | 0.075 | r |
| 156-59-2 | Cis-1,2-Dichloroethene(sim) | 0.100 | U | 0.100 | 0.100 | r |
| 67-66-3 | Chloroform(sim) | 0.100 | U | 0.100 | 0.100 | r |
| 78-87-5 | 1,2-dichloropropane(sim) | 0.010 | U | 0.010 | 0.010 | r |
| 75-27-4 | Bromodichloromethane(sim) | 0.010 | U | 0.010 | 0.010 | r |
| 79-01-6 | Trichloroethene(sim) | 0.025 | U | 0.025 | 0.025 | r |
| 123-91-1 | 1,4-Dioxane(sim) | 0.065 | U | 0.065 | 0.065 | r |
| 10061-01-5 | cis-1,3-Dichloropropene(sim) | 0.050 | U | 0.050 | 0.050 | r |
| 79-00-5 | 1,1,2-Trichloroethane(sim) | 0.010 | U | 0.010 | 0.010 | r |
| 124-48-1 | Dibromochloromethane(sim) | 0.010 | U | 0.010 | 0.010 | r |
| 106-93-4 | 1,2-Dibromoethane(EDB)(sim) | 0.010 | U | 0.010 | 0.010 | r |
| 127-18-4 | Tetrachloroethene(sim) | 0.050 | U | 0.050 | 0.050 | r |
| 75-25-2 | Bromoform(sim) | 0.075 | U | 0.075 | 0.075 | r |
| 179601-23-1 | m,p-Xylene(sim) | 0.500 | U | 0.500 | 0.500 | r |
| 79-34-5 | 1,1,2,2-Tetrachloroethane(sim) | 0.010 | U | 0.010 | 0.010 | r |
| 100-44-7 | Benzyl chloride(sim) | 0.250 | U | 0.250 | 0.250 | r |
| 541-73-1 | 1,3-Dichlorobenzene(sim) | 0.050 | U | 0.050 | 0.050 | r |
| 106-46-7 | 1,4-Dichlorobenzene(sim) | 0.040 | U | 0.040 | 0.040 | r |
| 135-98-8 | sec-Butylbenzene(sim) | 0.250 | U | 0.250 | 0.250 | r |
| 99-87-6 | 4-Isopropyltoluene(sim) | 0.250 | U | 0.250 | 0.250 | r |
| 95-50-1 | 1,2-Dichlorobenzene(sim) | 0.050 | U | 0.050 | 0.050 | r |
| 104-51-8 | n-Butylbenzene(sim) | 0.250 | U | 0.250 | 0.250 | r |
| 120-82-1 | 1,2,4-Trichlorobenzene(sim) | 0.027 | U | 0.027 | 0.027 | r |
| 87-68-3 | Hexachlorobutadiene(sim) | 0.010 | U | 0.010 | 0.010 | r |
| | | | | | | |
| | | | | | | |
| | | | | | | |
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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:\AIR2021\CHEM20\04APR\05\
Data File : 0405_06.D
Acq On : 5 Apr 2021 12:00 pm
Operator :
Client ID : CH91177 BLANK
Lab ID : CH91177 BLANK
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 05 15:22:03 2021
Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0329.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Mar 29 13:12:48 2021
Response via : Initial Calibration

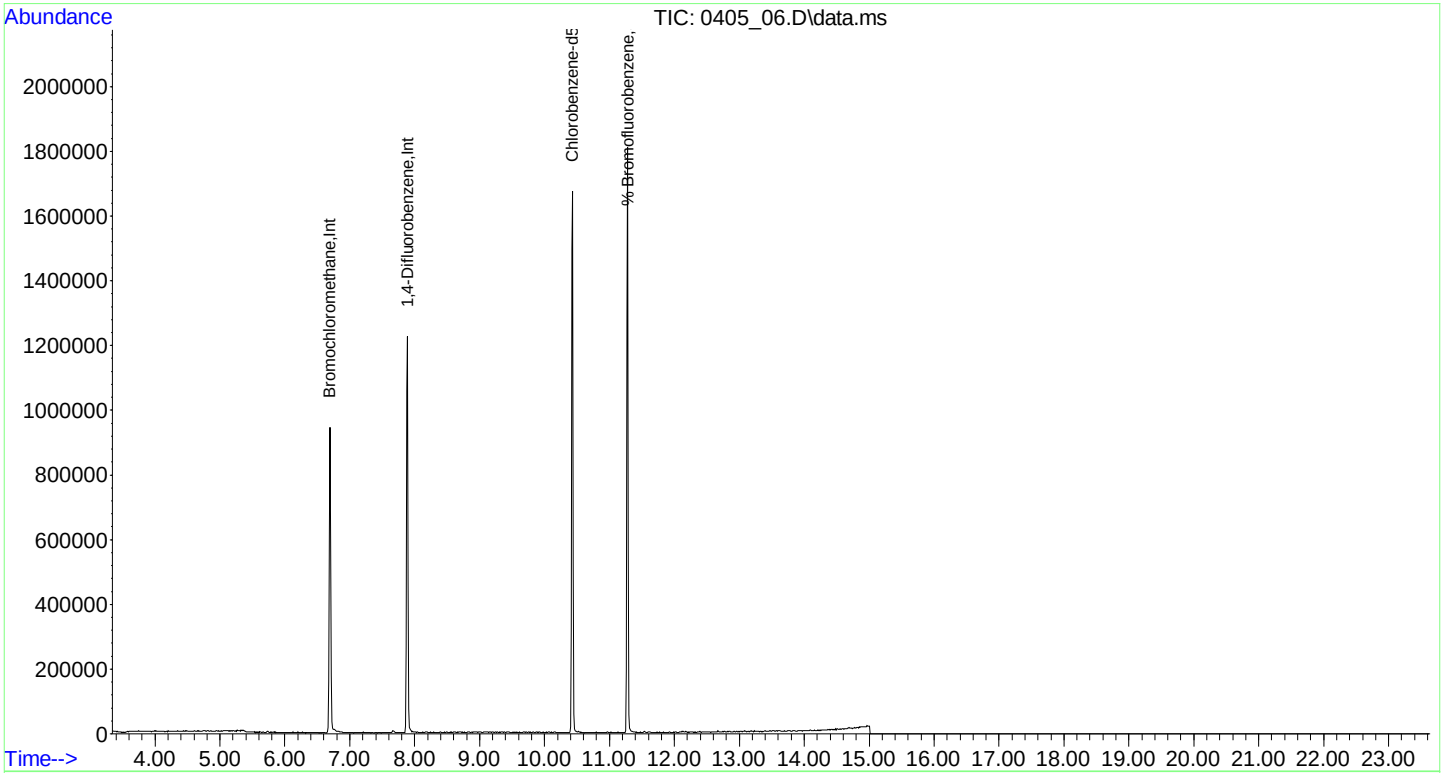
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Bromochloromethane | 6.694 | 130 | 194007 | 10.000 | ng | -0.01 |
| 37) 1,4-Difluorobenzene | 7.889 | 114 | 745303 | 10.000 | ng | 0.00 |
| 54) Chlorobenzene-d5 | 10.430 | 82 | 376323 | 10.000 | ng | 0.00 |
| 81) Bromochloromethane(sim) | 6.699 | 130 | 224972 | 10.000 | ng | #-0.01 |
| 96) 1,4-Difluorobenzene(sim) | 7.889 | 114 | 745116 | 10.000 | ng | 0.00 |
| 106) Chlorobenzene-d5(sim) | 10.430 | 82 | 376323 | 10.000 | ng | 0.00 |
| System Monitoring Compounds | | | | | | |
| 63) % Bromofluorobenzene | 11.281 | 95 | 436759 | 9.848 | ppbv | 0.00 |
| Spiked Amount 10.000 | Range 70 - 130 | | Recovery = 98.50% | | | |
| Target Compounds | | | | | | Qvalue |

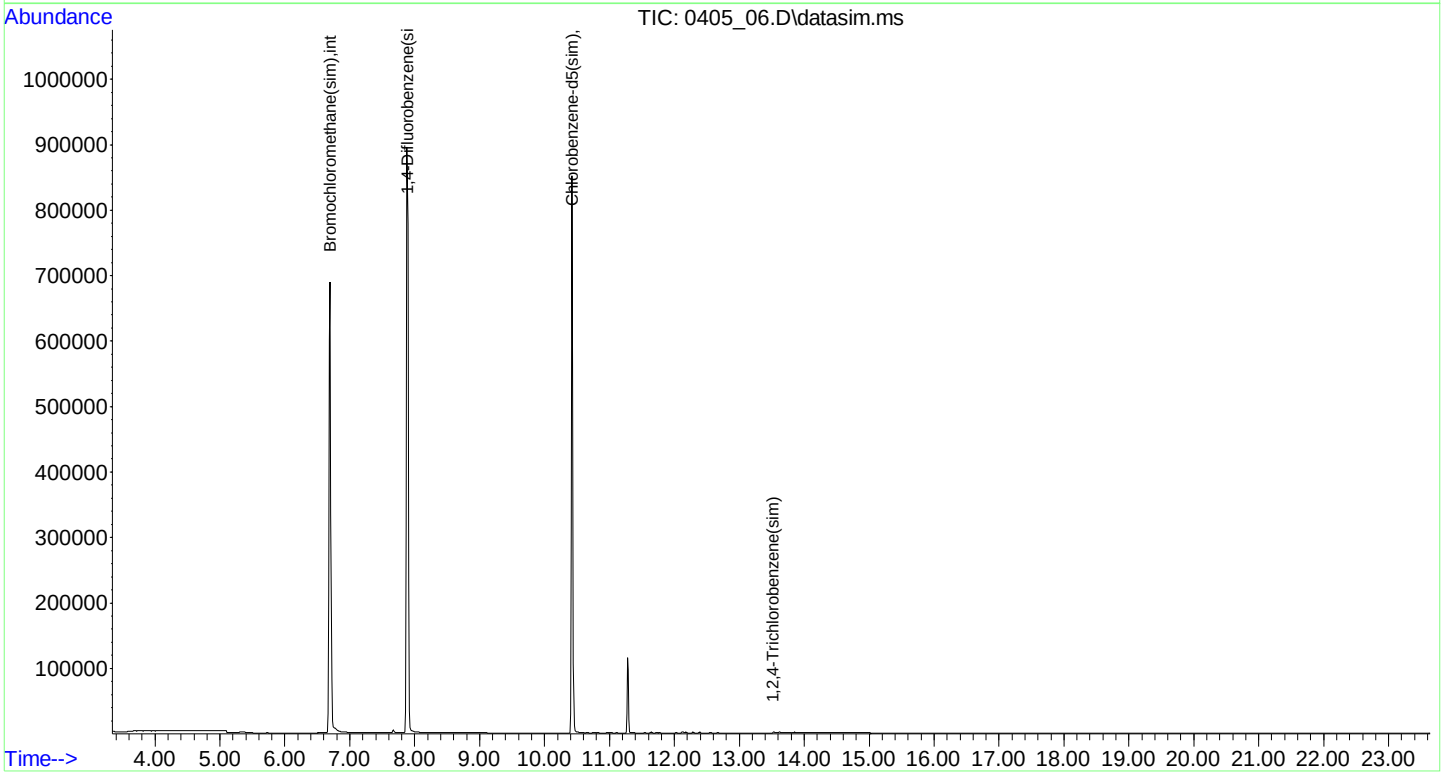
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2021\CHEM20\04APR\05\
Data File : 0405_06.D
Acq On : 5 Apr 2021 12:00 pm
Operator :
Client ID : CH91177 BLANK
Lab ID : CH91177 BLANK
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 05 15:22:03 2021
Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0329.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Mar 29 13:12:48 2021
Response via : Initial Calibration



1

AIR ANALYSIS DATA SHEET

CLIENT ID: 91177 0.5x dup

Client: GC-ENV Lab: Phoenix Env. Labs

SDG No.: GCH92051 Lab Sample ID: CH91177 DUP 0.5X

Canister: 28553 Lab File ID: 0405_08.D

Instrument: CHEM20 Column: RTX-1 60M Date Received: 04/02/21

Purge Volume 200 (cc) Date Analyzed: 04/05/21

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

| CAS NO. | COMPOUND | CONC. | Q | MDL | PQL | R |
|---|---|---|---|---|---|---|
| 115-07-1 | Propylene | 0.250 | U | 0.250 | 0.250 | r |
| 75-71-8 | Dichlorodifluoromethane | 0.320 | | 0.250 | 0.250 | r |
| 74-87-3 | Chloromethane | 0.250 | U | 0.250 | 0.250 | r |
| 106-99-0 | 1,3-Butadiene | 0.250 | U | 0.250 | 0.250 | r |
| 75-00-3 | Chloroethane | 0.250 | U | 0.250 | 0.250 | r |
| 64-17-5 | Ethanol | 782 | S | 0.266 | 0.266 | r |
| 67-64-1 | Acetone | 56.5 | S | 0.211 | 0.211 | r |
| 75-69-4 | Trichlorofluoromethane | 0.297 | | 0.250 | 0.250 | r |
| 67-63-0 | Isopropylalcohol | 20.2 | S | 0.375 | 0.375 | r |
| 107-13-1 | Acrylonitrile | 0.250 | U | 0.250 | 0.250 | r |
| 75-09-2 | Methylene Chloride | 1.50 | U | 1.50 | 1.50 | r |
| 75-15-0 | Carbon Disulfide | 0.250 | U | 0.250 | 0.250 | r |
| 1634-04-4 | Methyl tert-butyl ether(MTBE) | 0.250 | U | 0.250 | 0.250 | r |
| 78-93-3 | Methyl Ethyl Ketone | 0.225 | U | 0.225 | 0.225 | r |
| 156-59-2 | Cis-1,2-Dichloroethene | 0.466 | | 0.100 | 0.100 | r |
| 110-54-3 | Hexane | 0.430 | S | 0.225 | 0.225 | r |
| 141-78-6 | Ethyl acetate | 0.250 | U | 0.250 | 0.250 | r |
| 109-99-9 | Tetrahydrofuran | 0.319 | | 0.250 | 0.250 | r |
| 71-43-2 | Benzene | 0.284 | | 0.100 | 0.100 | r |
| 110-82-7 | Cyclohexane | 0.313 | | 0.250 | 0.250 | r |
| 79-01-6 | Trichloroethene | 2.66 | | 0.025 | 0.025 | r |
| 142-82-5 | Heptane | 7.53 | | 0.250 | 0.250 | r |
| 108-10-1 | 4-Methyl-2-pentanone(MIBK) | 0.250 | U | 0.250 | 0.250 | r |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.250 | U | 0.250 | 0.250 | r |
| 108-88-3 | Toluene | 2.93 | | 0.250 | 0.250 | r |
| 591-78-6 | 2-Hexanone(MBK) | 0.250 | U | 0.250 | 0.250 | r |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 0.250 | U | 0.250 | 0.250 | r |
| 108-90-7 | Chlorobenzene | 0.100 | U | 0.100 | 0.100 | r |
| 100-41-4 | Ethylbenzene | 1.03 | | 0.250 | 0.250 | r |
| 179601-23-1 | m,p-Xylene | 4.29 | | 0.500 | 0.500 | r |
| 100-42-5 | Styrene | 0.100 | U | 0.100 | 0.100 | r |
| 95-47-6 | o-Xylene | 1.32 | | 0.250 | 0.250 | r |
| 98-82-8 | Isopropylbenzene | 0.250 | U | 0.250 | 0.250 | r |
| 622-96-8 | 4-Ethyltoluene | 1.06 | | 0.250 | 0.250 | r |
| 108-67-8 | 1,3,5-Trimethylbenzene | 0.386 | | 0.250 | 0.250 | r |
| 95-63-6 | 1,2,4-Trimethylbenzene | 1.40 | | 0.250 | 0.250 | 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: 91177 0.5x dup

Client: GC-ENV Lab: Phoenix Env. Labs

SDG No.: GCH92051 Lab Sample ID: CH91177 DUP 0.5X

Canister: 28553 Lab File ID: 0405_08.D

Instrument: CHEM20 Column: RTX-1 60M Date Received: 04/02/21

Purge Volume 200 (cc) Date Analyzed: 04/05/21

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

| CAS NO. | COMPOUND | CONC. | Q | MDL | PQL | R |
|---|---|---|---|---|---|---|
| 541-73-1 | 1,3-Dichlorobenzene | 0.131 | | 0.050 | 0.050 | r |
| 104-51-8 | n-Butylbenzene | 0.250 | U | 0.250 | 0.250 | r |
| 76-14-2 | 1,2-Dichlorotetrafluoroethane(sim) | 0.250 | U | 0.250 | 0.250 | r |
| 75-01-4 | Vinyl Chloride(sim) | 0.050 | U | 0.050 | 0.050 | r |
| 74-83-9 | Bromomethane(sim) | 0.070 | U | 0.070 | 0.070 | r |
| 107-06-2 | 1,2-Dichloroethane(sim) | 0.015 | | 0.010 | 0.010 | r |
| 71-55-6 | 1,1,1-Trichloroethane(sim) | 0.250 | U | 0.250 | 0.250 | r |
| 56-23-5 | Carbon Tetrachloride(sim) | 0.089 | | 0.043 | 0.043 | r |
| 75-35-4 | 1,1-Dichloroethene(sim) | 0.100 | U | 0.100 | 0.100 | r |
| 76-13-1 | Trichlorotrifluoroethane(sim) | 0.250 | U | 0.250 | 0.250 | r |
| 156-60-5 | Trans-1,2-Dichloroethene(sim) | 0.100 | U | 0.100 | 0.100 | r |
| 75-34-3 | 1,1-Dichloroethane(sim) | 0.075 | U | 0.075 | 0.075 | r |
| 67-66-3 | Chloroform(sim) | 0.100 | U | 0.100 | 0.100 | r |
| 78-87-5 | 1,2-dichloropropane(sim) | 0.010 | U | 0.010 | 0.010 | r |
| 75-27-4 | Bromodichloromethane(sim) | 0.010 | U | 0.010 | 0.010 | r |
| 123-91-1 | 1,4-Dioxane(sim) | 0.065 | U | 0.065 | 0.065 | r |
| 10061-01-5 | cis-1,3-Dichloropropene(sim) | 0.050 | U | 0.050 | 0.050 | r |
| 79-00-5 | 1,1,2-Trichloroethane(sim) | 0.010 | U | 0.010 | 0.010 | r |
| 124-48-1 | Dibromochloromethane(sim) | 0.010 | U | 0.010 | 0.010 | r |
| 106-93-4 | 1,2-Dibromoethane(EDB)(sim) | 0.010 | U | 0.010 | 0.010 | r |
| 127-18-4 | Tetrachloroethene(sim) | 0.096 | | 0.050 | 0.050 | r |
| 75-25-2 | Bromoform(sim) | 0.075 | U | 0.075 | 0.075 | r |
| 79-34-5 | 1,1,2,2-Tetrachloroethane(sim) | 0.010 | U | 0.010 | 0.010 | r |
| 100-44-7 | Benzyl chloride(sim) | 0.250 | U | 0.250 | 0.250 | r |
| 106-46-7 | 1,4-Dichlorobenzene(sim) | 0.078 | | 0.040 | 0.040 | r |
| 135-98-8 | sec-Butylbenzene(sim) | 0.250 | U | 0.250 | 0.250 | r |
| 99-87-6 | 4-Isopropyltoluene(sim) | 0.250 | U | 0.250 | 0.250 | r |
| 95-50-1 | 1,2-Dichlorobenzene(sim) | 0.050 | U | 0.050 | 0.050 | r |
| 120-82-1 | 1,2,4-Trichlorobenzene(sim) | 0.027 | U | 0.027 | 0.027 | r |
| 87-68-3 | Hexachlorobutadiene(sim) | 0.010 | U | 0.010 | 0.010 | r |
| | | | | | | |
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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:\AIR2021\CHEM20\04APR\05\
Data File : 0405_08.D
Acq On : 5 Apr 2021 1:27 pm
Operator :
Client ID : 91177 0.5x dup
Lab ID : CH91177 DUP
ALS Vial : 8 Sample Multiplier: 1

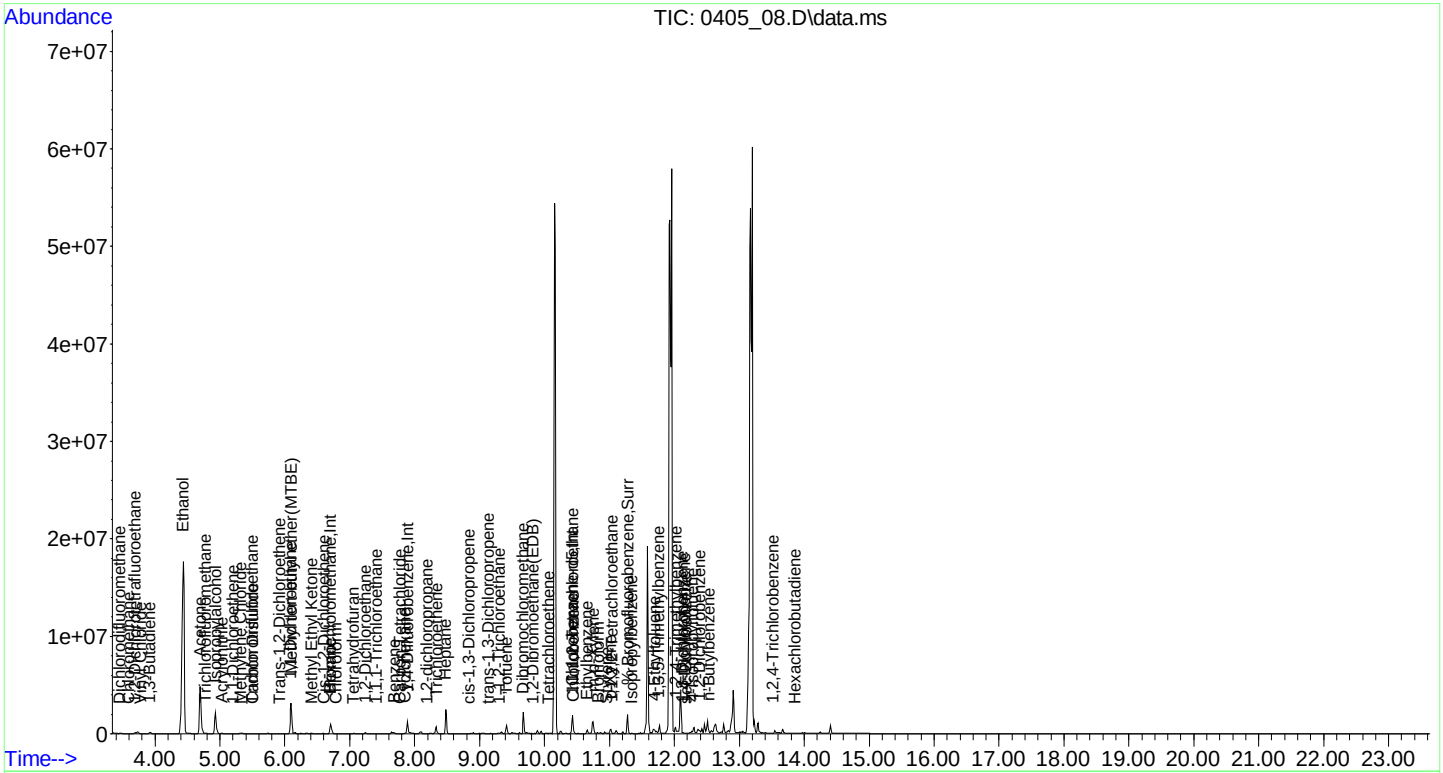
Quant Time: Apr 05 15:24:39 2021
Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0329.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Mar 29 13:12:48 2021
Response via : Initial Calibration

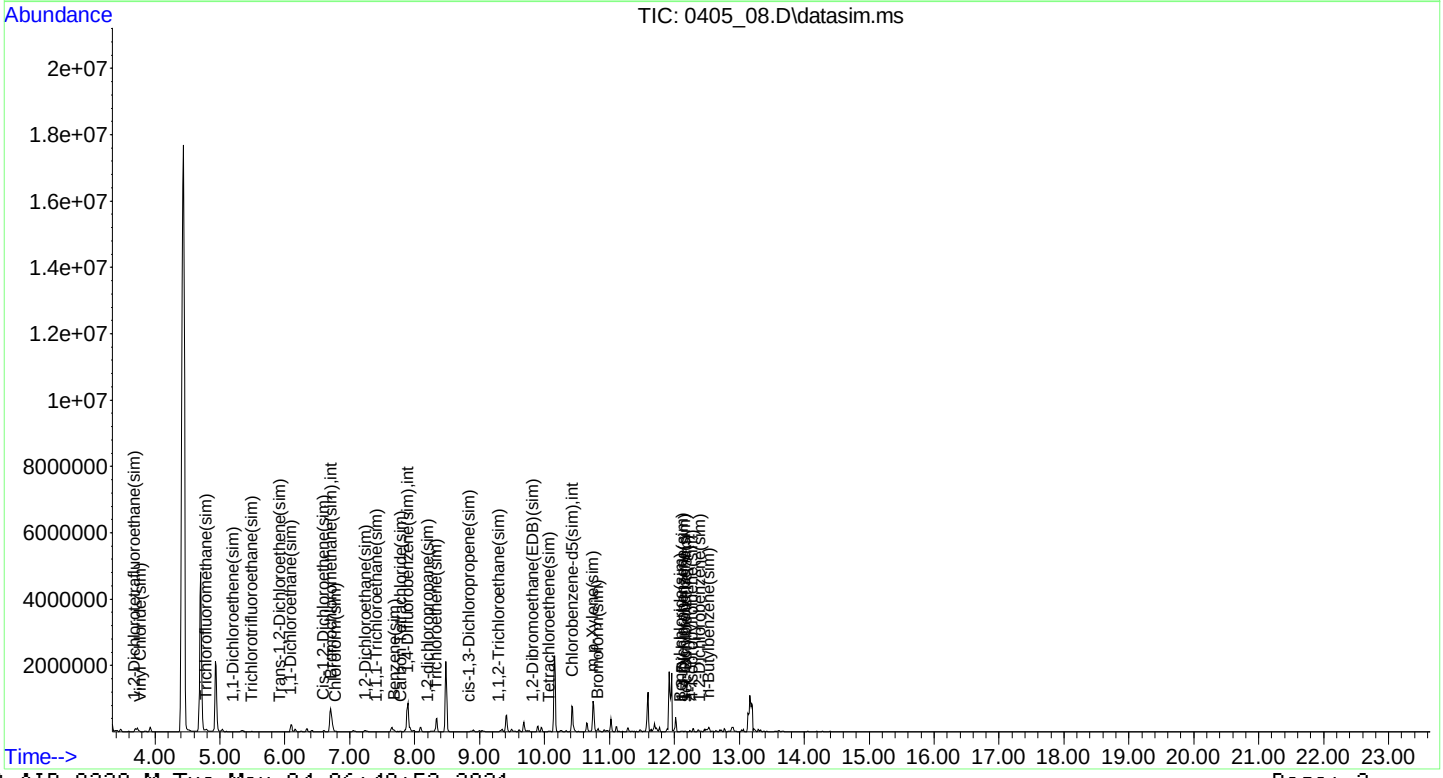
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Bromochloromethane | 6.704 | 130 | 186021 | 10.000 | ng | | 0.00 |
| 37) 1,4-Difluorobenzene | 7.889 | 114 | 693514 | 10.000 | ng | | 0.00 |
| 54) Chlorobenzene-d5 | 10.430 | 82 | 382196 | 10.000 | ng | | 0.00 |
| 81) Bromochloromethane(sim) | 6.710 | 130 | 210791 | 10.000 | ng | # | 0.00 |
| 96) 1,4-Difluorobenzene(sim) | 7.889 | 114 | 693514 | 10.000 | ng | | 0.00 |
| 106) Chlorobenzene-d5(sim) | 10.430 | 82 | 382464 | 10.000 | ng | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 63) % Bromofluorobenzene | 11.281 | 95 | 464529 | 10.313 | ppbv | | 0.00 |
| Spiked Amount 10.000 | Range 70 - 130 | | Recovery = 103.10% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 3) Dichlorodifluoromethane | 3.456 | 85 | 35785 | 0.639 | ppbv | # | 89 |
| 11) Ethanol | 4.437 | 45 | 24555420 | 1564.226 | ppbv | # | 67 |
| 12) Acetone | 4.696 | 43 | 6487151 | 113.058 | ppbv | # | 89 |
| 13) Trichlorofluoromethane | 4.782 | 101 | 34575 | 0.594 | ppbv | # | 91 |
| 14) Isopropylalcohol | 4.933 | 45 | 2841303 | 40.409 | ppbv | # | 86 |
| 17) Methylene Chloride | 5.321 | 49 | 12824 | 0.292 | ppbv | # | 92 |
| 24) Methyl tert-butyl ethe... | 6.096 | 73 | 26799 | 0.474 | ppbv | # | 1 |
| 27) Cis-1,2-Dichloroethene | 6.600 | 61 | 33396 | 0.931 | ppbv | | 98 |
| 28) Hexane | 6.704 | 57 | 37405m | 0.859 | ppbv | # | 95 |
| 31) Tetrahydrofuran | 7.058 | 42 | 27183 | 0.637 | ppbv | # | 83 |
| 34) Benzene | 7.688 | 78 | 30789 | 0.568 | ppbv | # | 77 |
| 35) Carbon Tetrachloride | 7.777 | 117 | 9392 | 0.174 | ppbv | | 98 |
| 36) Cyclohexane | 7.855 | 41 | 21306 | 0.625 | ppbv | # | 64 |
| 40) Trichloroethene | 8.334 | 130 | 141551 | 5.315 | ppbv | | 92 |
| 44) Heptane | 8.479 | 43 | 1042731 | 15.050 | ppbv | | 96 |
| 49) Toluene | 9.415 | 91 | 388407 | 5.867 | ppbv | | 99 |
| 53) Tetrachloroethene | 10.065 | 166 | 6150 | 0.185 | ppbv | | 87 |
| 57) Ethylbenzene | 10.655 | 91 | 188879 | 2.062 | ppbv | | 93 |
| 58) m,p-Xylene | 10.748 | 91 | 596833 | 8.570 | ppbv | | 98 |
| 62) o-Xylene | 11.014 | 91 | 195958 | 2.630 | ppbv | | 93 |
| 67) 4-Ethyltoluene | 11.701 | 105 | 217645 | 2.128 | ppbv | | 98 |
| 68) 1,3,5-Trimethylbenzene | 11.763 | 105 | 65757 | 0.772 | ppbv | # | 97 |
| 69) 1,2,4-Trimethylbenzene | 12.019 | 105 | 243772 | 2.806 | ppbv | # | 83 |
| 72) 1,3-Dichlorobenzene | 12.122 | 146 | 12385 | 0.262 | ppbv | # | 83 |
| 77) n-Butylbenzene | 12.532 | 91 | 32780 | 0.384 | ppbv | # | 37 |
| 85] Trichlorofluoromethane... | 4.788 | 101 | 37833 | 0.577 | ppbv | # | 100 |
| 86] 1,2-Dichloroethane(sim) | 7.246 | 62 | 1231 | 0.029 | ppbv | # | 73 |
| 88] Benzene(sim) | 7.688 | 78 | 30789 | 0.563 | ppbv | # | 77 |
| 89] Carbon Tetrachloride(sim) | 7.783 | 117 | 10538 | 0.178 | ppbv | | 97 |
| 94] Cis-1,2-Dichloroethene... | 6.600 | 61 | 33396 | 0.913 | ppbv | | 98 |
| 99] Trichloroethene(sim) | 8.329 | 130 | 163056 | 5.164 | ppbv | | 98 |
| 105] Tetrachloroethene(sim) | 10.070 | 166 | 7544 | 0.191 | ppbv | | 98 |
| 108] m,p-Xylene(sim) | 10.748 | 91 | 597391 | 7.955 | ppbv | | 98 |
| 113] 1,3-Dichlorobenzene(sim) | 12.127 | 146 | 14025 | 0.281 | ppbv | # | 89 |
| 114] 1,4-Dichlorobenzene(sim) | 12.163 | 146 | 5816 | 0.156 | ppbv | | 95 |

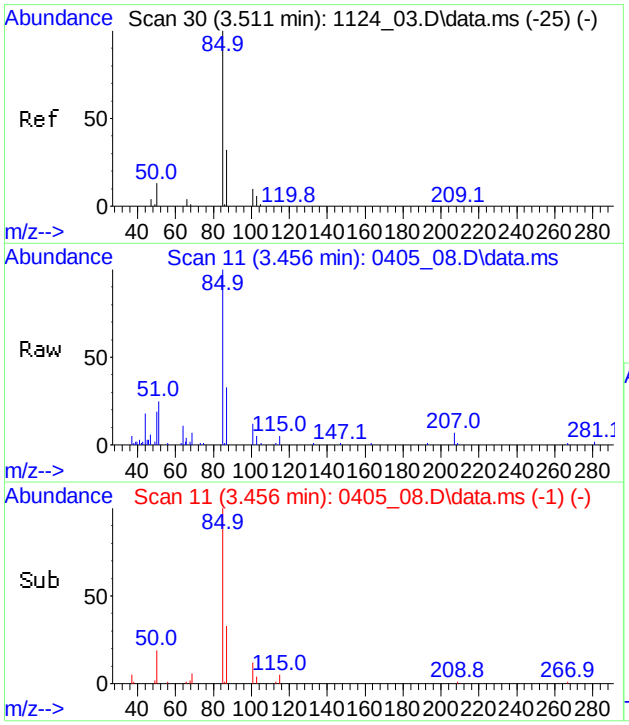
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2021\CHEM20\04APR\05\
Data File : 0405_08.D
Acq On : 5 Apr 2021 1:27 pm
Operator :
Client ID : 91177 0.5x dup
Lab ID : CH91177 DUP
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 05 15:24:39 2021
Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0329.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Mar 29 13:12:48 2021
Response via : Initial Calibration



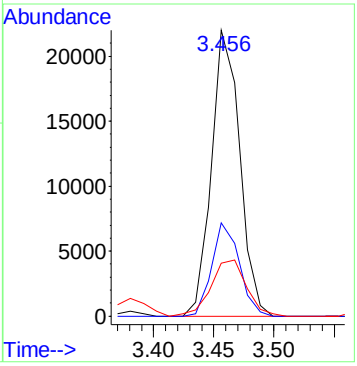



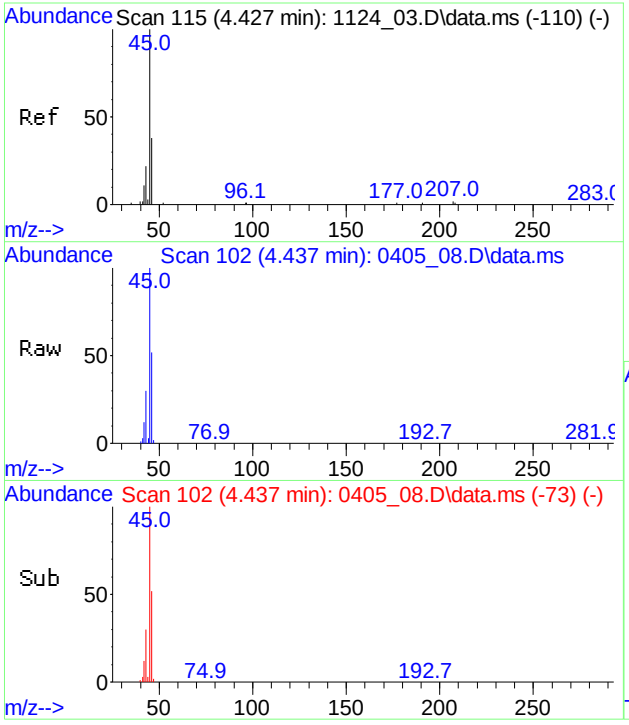



#3
Dichlorodifluoromethane
Conc: 8$ 0.639 ppbv
RT: 3.456 min Scan# 11
Delta R.T. -0.043 min
Lab File: 0405_08.D
Acq: 5 Apr 2021 1:27 pm

Tgt Ion: 85 Resp: 35785

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 31.9 | 30.8 | 46.2 |
| 50 | 24.7 | 15.7 | 23.5# |

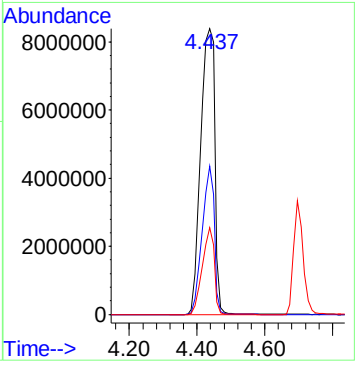


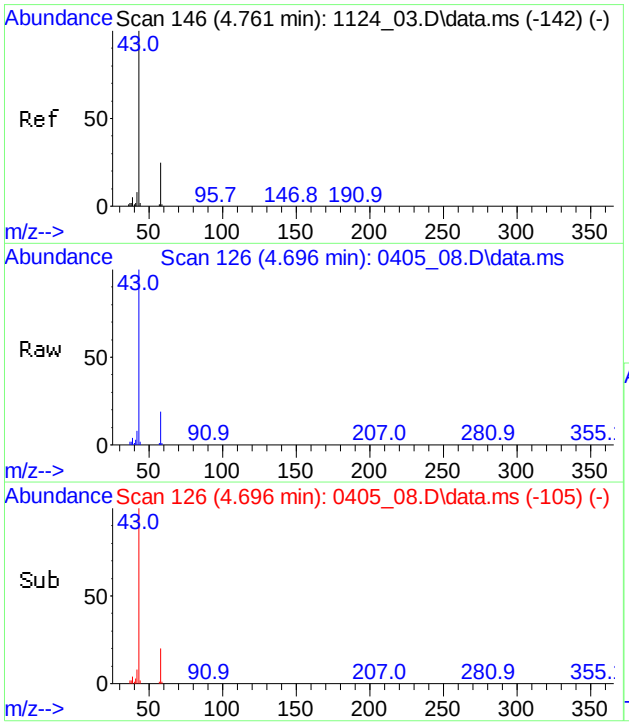




#11
Ethanol
Conc: 8$ 1564.226 ppbv
RT: 4.437 min Scan# 102
Delta R.T. 0.011 min
Lab File: 0405_08.D
Acq: 5 Apr 2021 1:27 pm

Tgt Ion: 45 Resp: 24555420

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 46 | 44.4 | 0.0 | 0.0# |
| 43 | 25.5 | 10.0 | 15.0# |

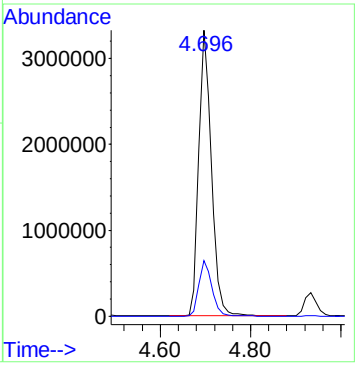


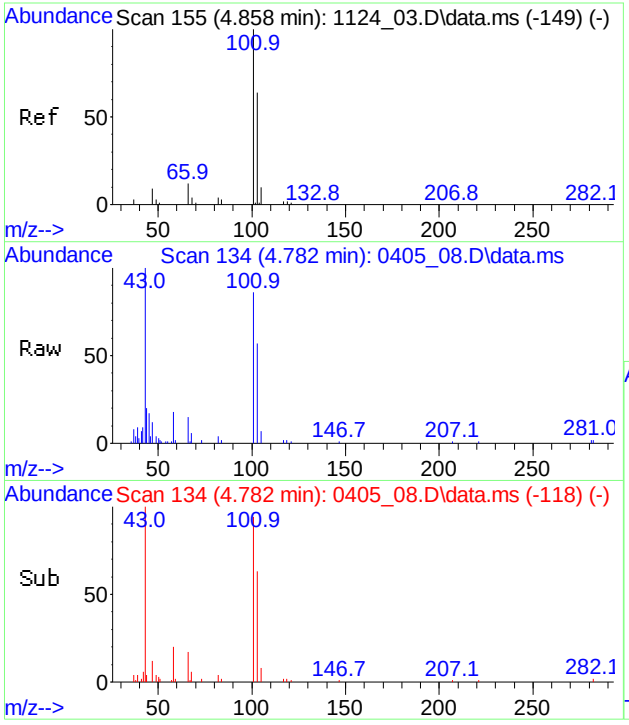



#12
Acetone
Conc: 8$ 113.058 ppbv
RT: 4.696 min Scan# 126
Delta R.T. -0.075 min
Lab File: 0405_08.D
Acq: 5 Apr 2021 1:27 pm

Tgt Ion: 43 Resp: 6487151

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 20.0 | 20.4 | 30.6# |

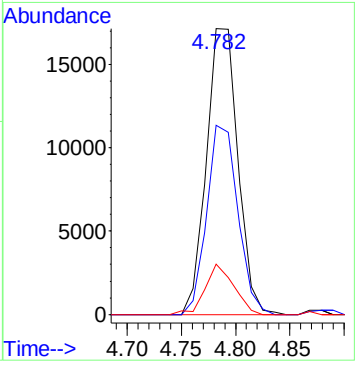


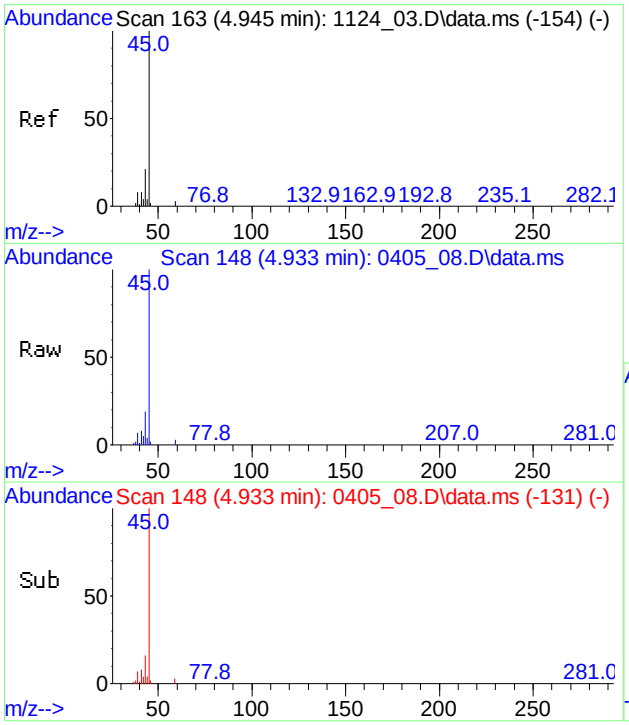




#13
Trichlorofluoromethane
Conc: 8$ 0.594 ppbv
RT: 4.782 min Scan# 134
Delta R.T. -0.032 min
Lab File: 0405_08.D
Acq: 5 Apr 2021 1:27 pm

Tgt Ion:101 Resp: 34575

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 65.4 | 58.3 | 87.5 |
| 66 | 16.0 | 10.1 | 15.1# |

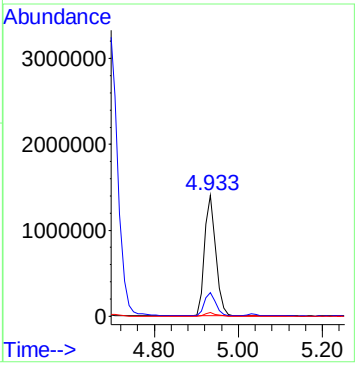


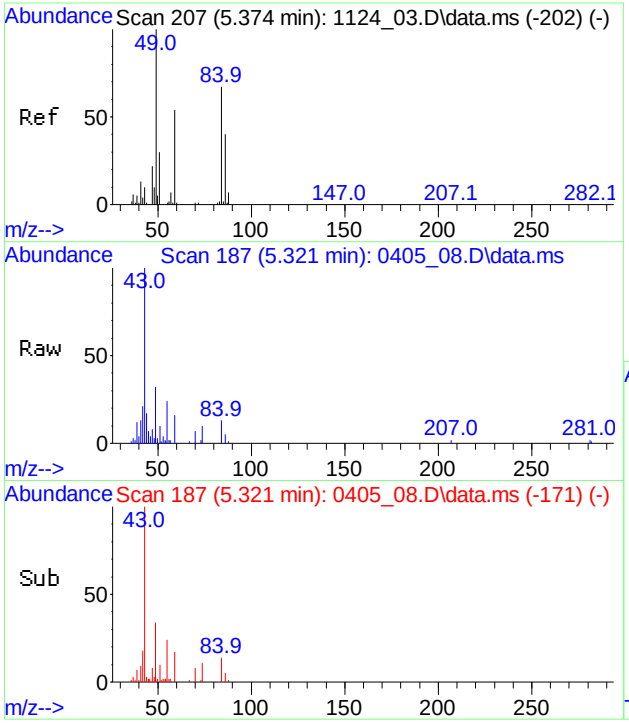



#14
Isopropylalcohol
Conc: 8$ 40.409 ppbv
RT: 4.933 min Scan# 148
Delta R.T. -0.022 min
Lab File: 0405_08.D
Acq: 5 Apr 2021 1:27 pm

Tgt Ion: 45 Resp: 2841303

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 18.2 | 20.6 | 31.0# |
| 59 | 2.5 | 2.1 | 3.1 |

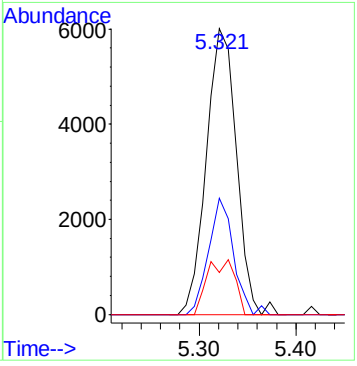


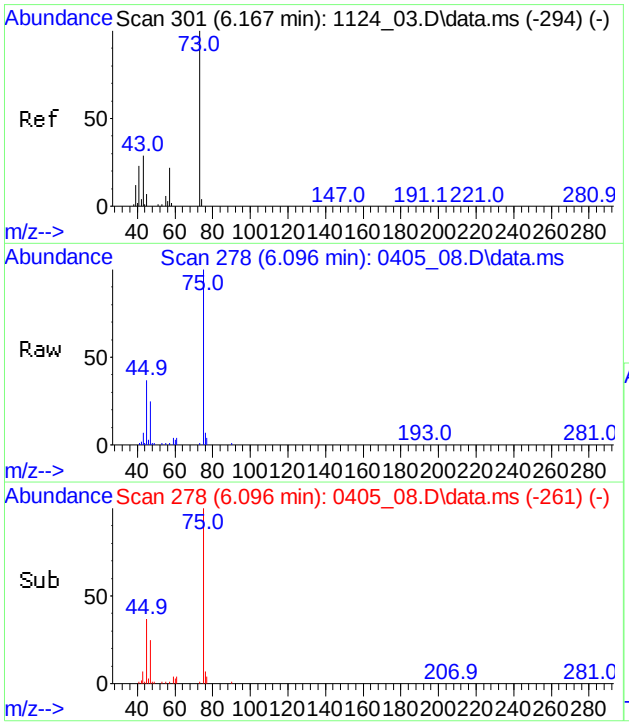




#17
Methylene Chloride
Conc: 8$ 0.292 ppbv
RT: 5.321 min Scan# 187
Delta R.T. -0.009 min
Lab File: 0405_08.D
Acq: 5 Apr 2021 1:27 pm

Tgt Ion: 49 Resp: 12824

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 84 | 33.9 | 29.3 | 43.9 |
| 86 | 17.6 | 18.9 | 28.3# |

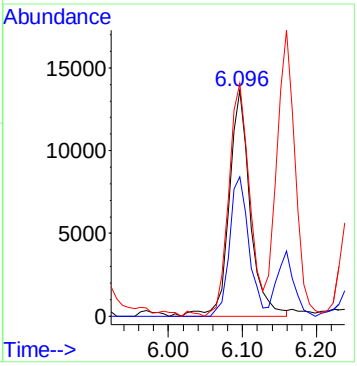


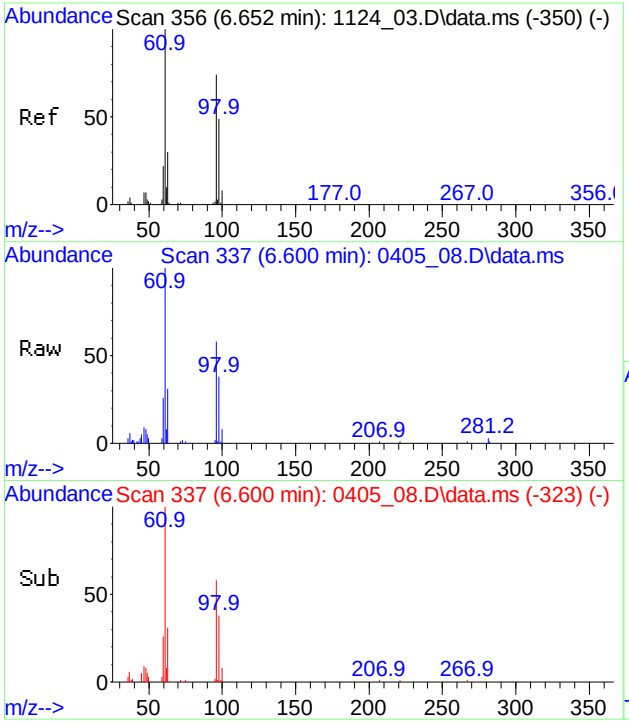



#24
Methyl tert-butyl ether(MTBE)
Conc: 8$ 0.474 ppbv
RT: 6.096 min Scan# 278
Delta R.T. -0.063 min
Lab File: 0405_08.D
Acq: 5 Apr 2021 1:27 pm

Tgt Ion: 73 Resp: 26799

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 56.8 | 0.0 | 0.0# |
| 41 | 102.2 | 1.3 | 1.9# |

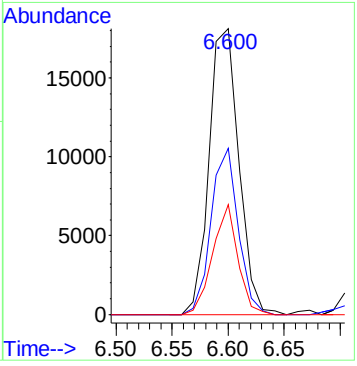


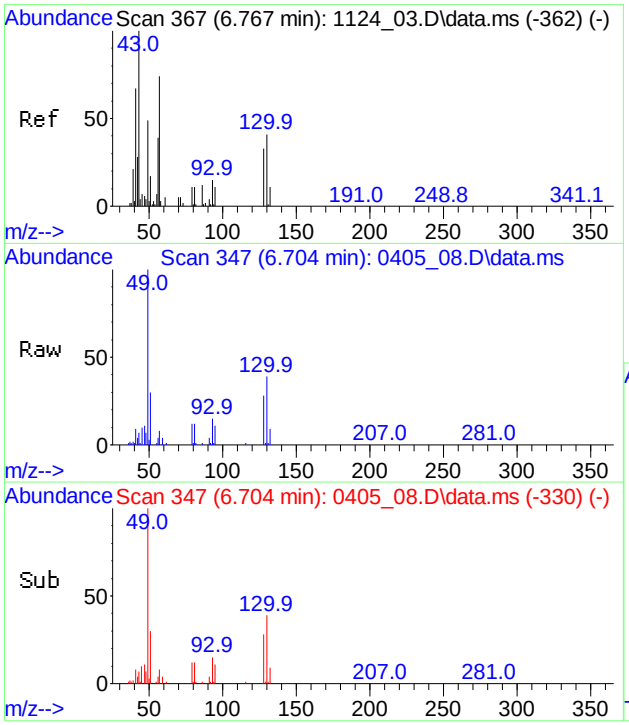




#27
Cis-1,2-Dichloroethene
Conc: 8$ 0.931 ppbv
RT: 6.600 min Scan# 337
Delta R.T. -0.000 min
Lab File: 0405_08.D
Acq: 5 Apr 2021 1:27 pm

Tgt Ion: 61 Resp: 33396

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 61 | 100 | | |
| 96 | 53.1 | 43.9 | 65.9 |
| 98 | 32.5 | 26.4 | 39.6 |

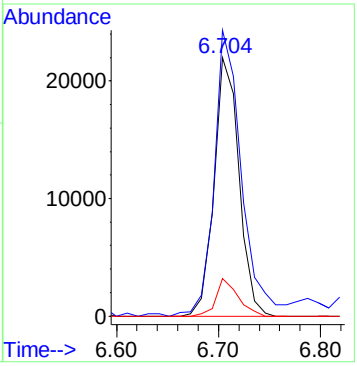


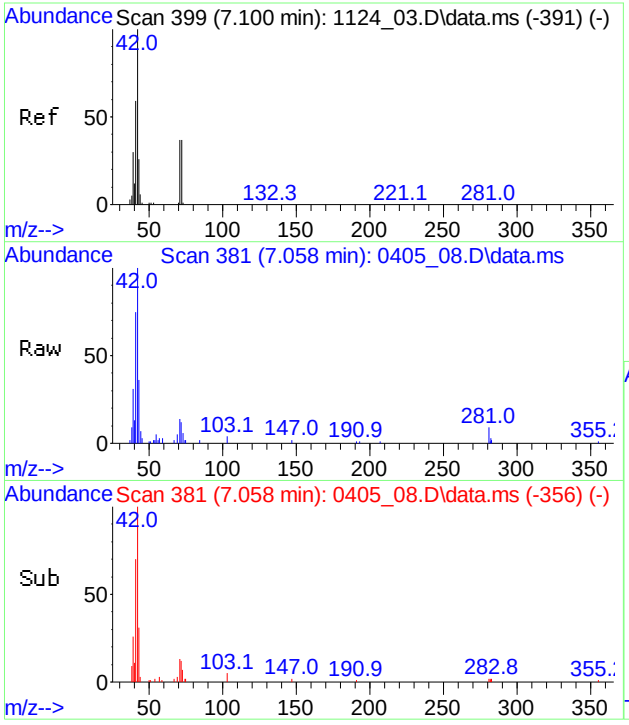



#28
Hexane
Conc: 8$ 0.859 ppbv
RT: 6.704 min Scan# 347
Delta R.T. -0.021 min
Lab File: 0405_08.D
Acq: 5 Apr 2021 1:27 pm

Tgt Ion: 57 Resp: 37405

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 57 | 100 | | |
| 41 | 119.5 | 91.8 | 137.8 |
| 86 | 12.8 | 7.4 | 11.2# |

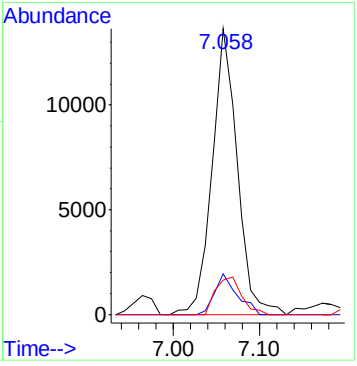


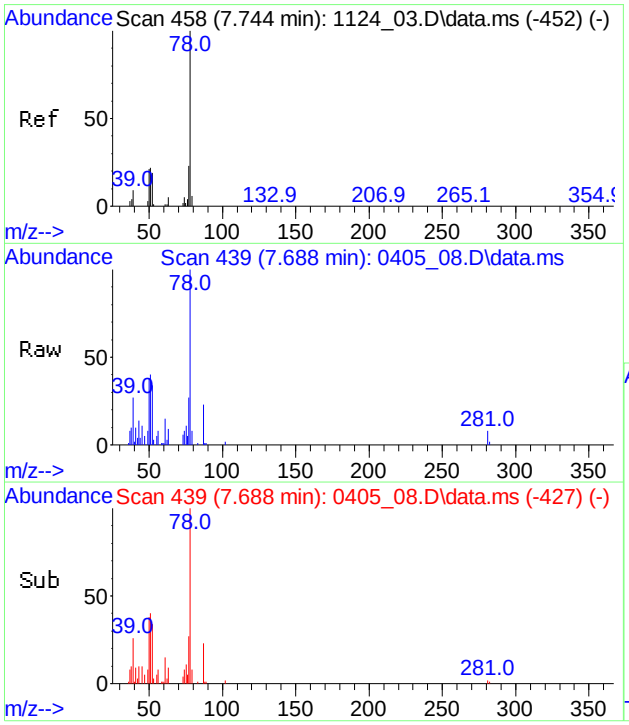




#31
Tetrahydrofuran
Conc: 8$ 0.637 ppbv
RT: 7.058 min Scan# 381
Delta R.T. -0.042 min
Lab File: 0405_08.D
Acq: 5 Apr 2021 1:27 pm

Tgt Ion: 42 Resp: 27183

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 71 | 12.7 | 16.2 | 24.4# |
| 72 | 13.5 | 17.1 | 25.7# |

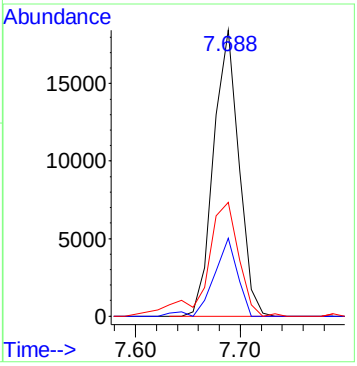


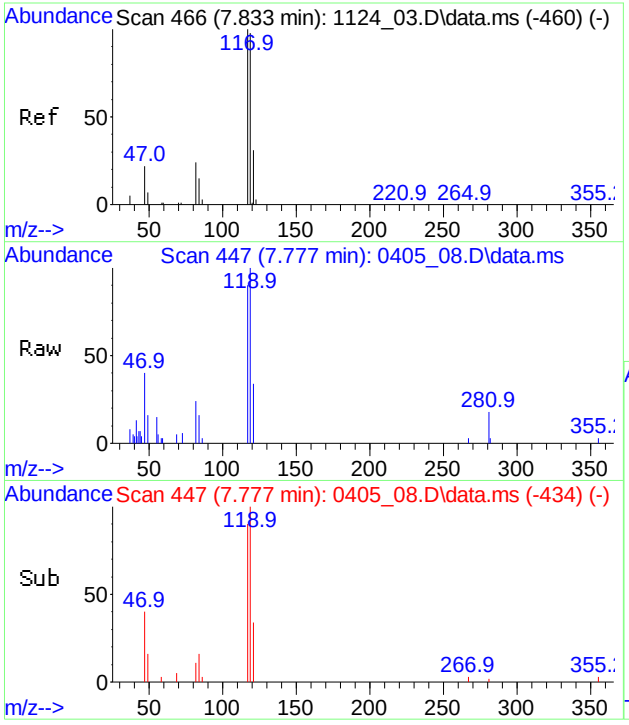



#34
Benzene
Conc: 8$ 0.568 ppbv
RT: 7.688 min Scan# 439
Delta R.T. 0.000 min
Lab File: 0405_08.D
Acq: 5 Apr 2021 1:27 pm

Tgt Ion: 78 Resp: 30789

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 29.8 | 19.7 | 29.5# |
| 51 | 55.8 | 29.8 | 44.6# |

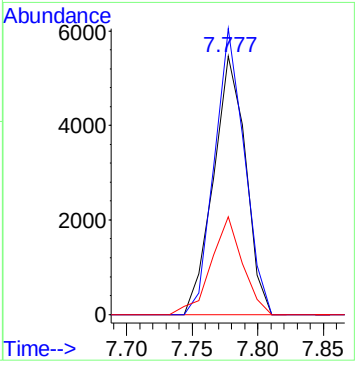


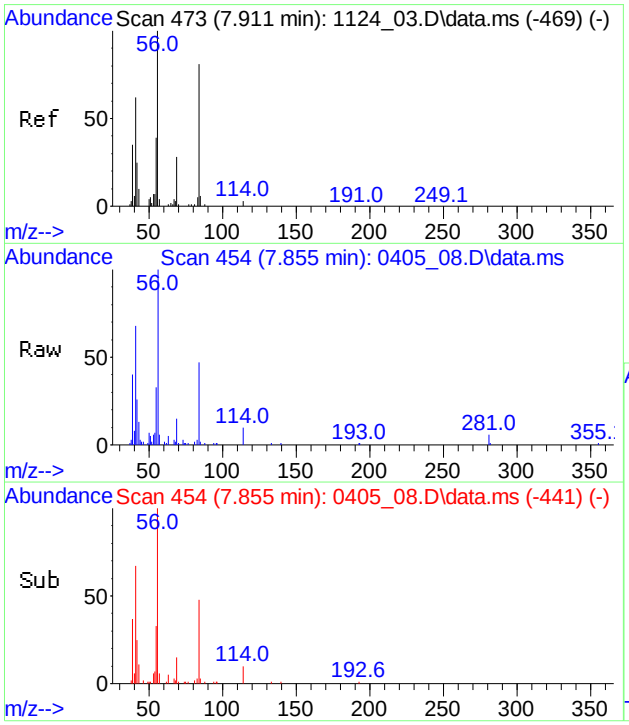




#35
Carbon Tetrachloride
Conc: 8$ 0.174 ppbv
RT: 7.777 min Scan# 447
Delta R.T. -0.011 min
Lab File: 0405_08.D
Acq: 5 Apr 2021 1:27 pm

Tgt Ion:117 Resp: 9392

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 102.9 | 82.1 | 122.1 |
| 121 | 36.9 | 12.6 | 52.6 |

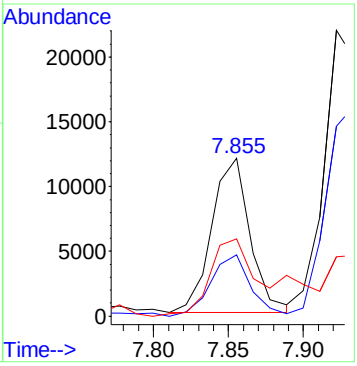


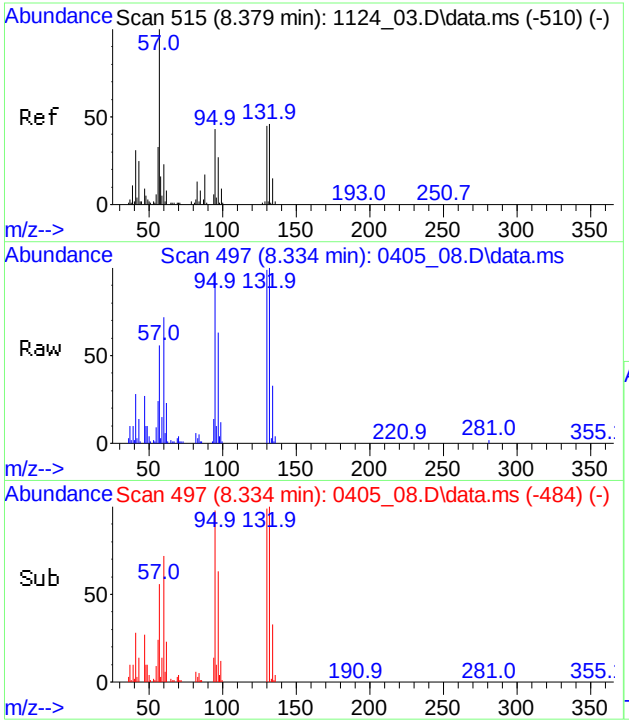



#36
Cyclohexane
Conc: 8$ 0.625 ppbv
RT: 7.855 min Scan# 454
Delta R.T. 0.000 min
Lab File: 0405_08.D
Acq: 5 Apr 2021 1:27 pm

Tgt Ion: 41 Resp: 21306

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 42 | 41.1 | 36.9 | 55.3 |
| 55 | 58.2 | 86.2 | 129.4# |

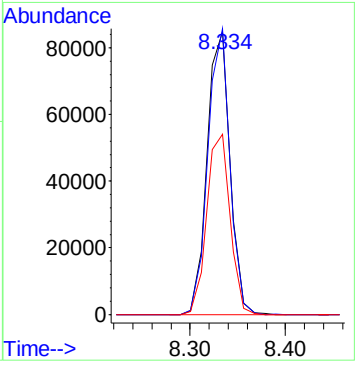


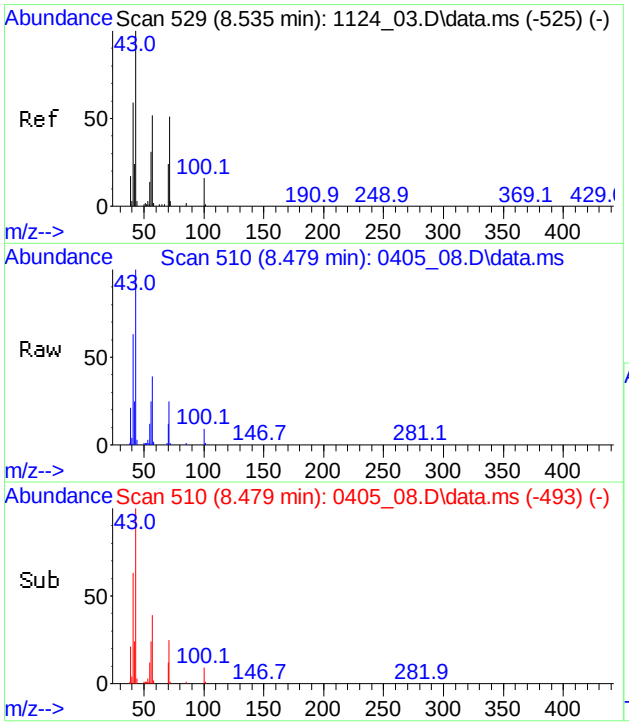




#40
Trichloroethene
Conc: 8$ 5.315 ppbv
RT: 8.334 min Scan# 497
Delta R.T. 0.000 min
Lab File: 0405_08.D
Acq: 5 Apr 2021 1:27 pm

Tgt Ion:130 Resp: 141551

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 132 | 97.3 | 85.0 | 127.6 |
| 97 | 65.1 | 57.5 | 86.3 |

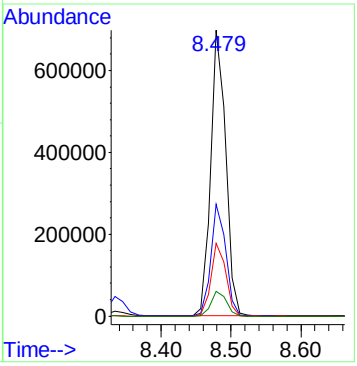


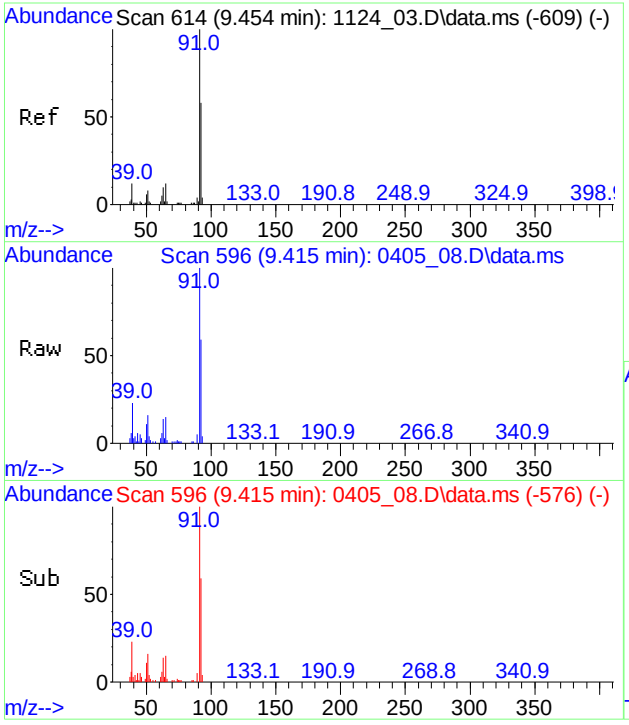



#44
Heptane
Conc: 8$ 15.050 ppbv
RT: 8.479 min Scan# 510
Delta R.T. -0.011 min
Lab File: 0405_08.D
Acq: 5 Apr 2021 1:27 pm

Tgt Ion: 43 Resp: 1042731

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 57 | 38.9 | 31.5 | 47.3 |
| 71 | 25.2 | 24.0 | 36.0 |
| 100 | 9.0 | 7.0 | 10.6 |

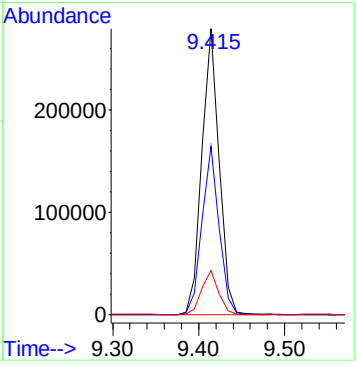


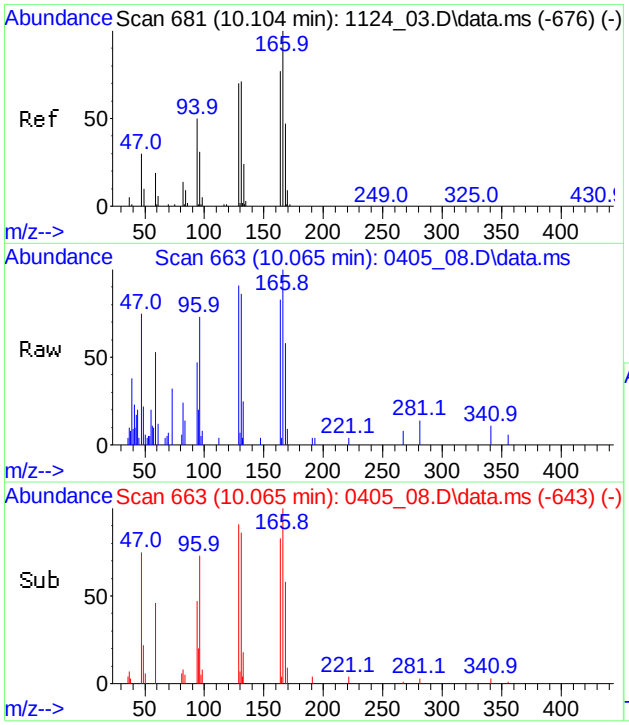




#49
Toluene
Conc: 8$ 5.867 ppbv
RT: 9.415 min Scan# 596
Delta R.T. -0.009 min
Lab File: 0405_08.D
Acq: 5 Apr 2021 1:27 pm

Tgt Ion: 91 Resp: 388407

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 58.0 | 46.8 | 70.2 |
| 65 | 15.1 | 11.5 | 17.3 |

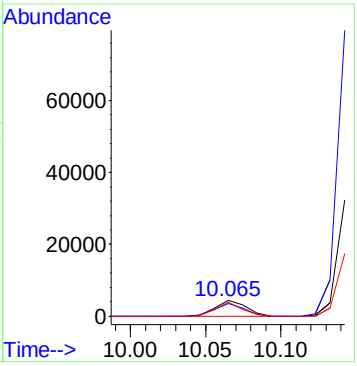


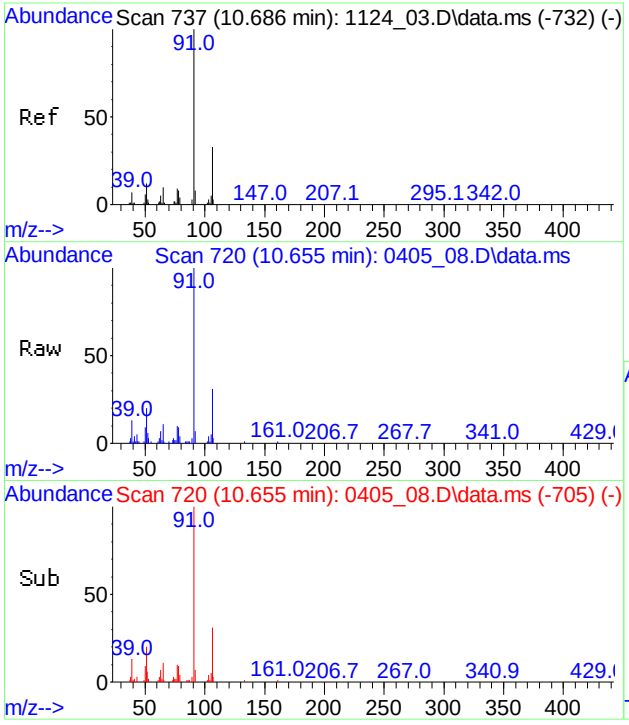



#53
Tetrachloroethene
Conc: 8$ 0.185 ppbv
RT: 10.065 min Scan# 663
Delta R.T. -0.010 min
Lab File: 0405_08.D
Acq: 5 Apr 2021 1:27 pm

Tgt Ion:166 Resp: 6150

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 164 | 78.4 | 52.6 | 78.8 |
| 129 | 78.3 | 55.5 | 83.3 |

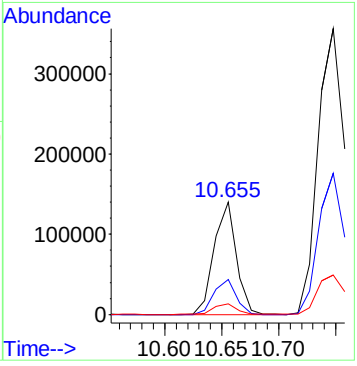


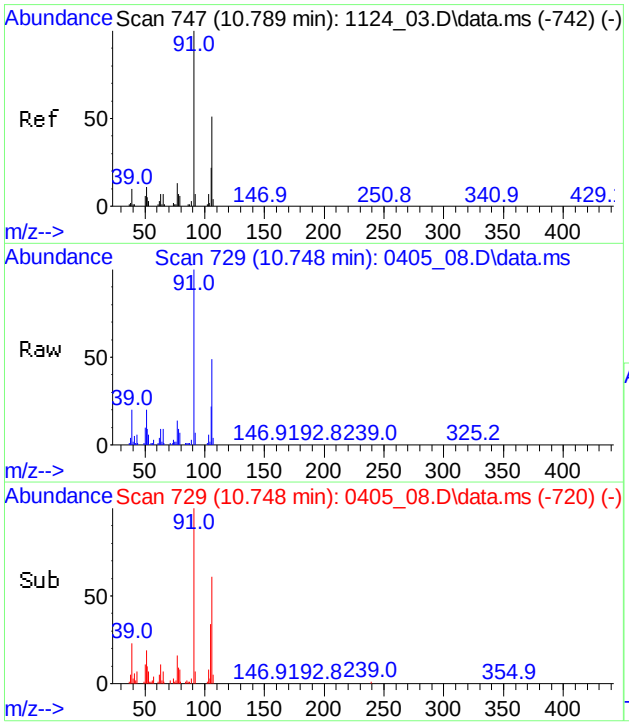




#57
Ethylbenzene
Conc: 8$ 2.062 ppbv
RT: 10.655 min Scan# 720
Delta R.T. 0.000 min
Lab File: 0405_08.D
Acq: 5 Apr 2021 1:27 pm

Tgt Ion: 91 Resp: 188879

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 31.2 | 6.6 | 46.6 |
| 77 | 10.3 | 0.0 | 31.2 |

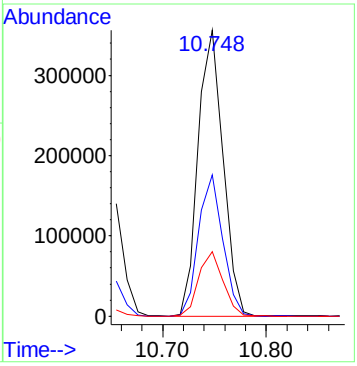


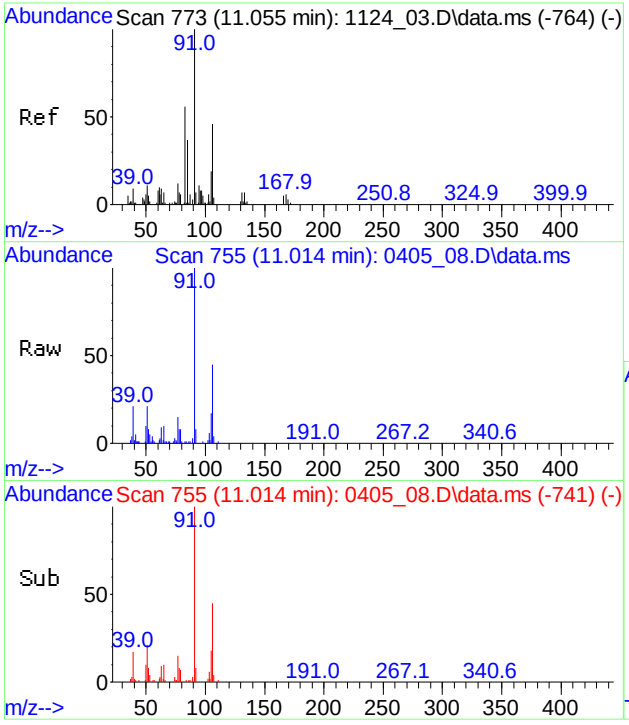



#58
m,p-Xylene
Conc: 8$ 8.570 ppbv
RT: 10.748 min Scan# 729
Delta R.T. -0.010 min
Lab File: 0405_08.D
Acq: 5 Apr 2021 1:27 pm

Tgt Ion: 91 Resp: 596833

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 47.9 | 36.6 | 54.8 |
| 105 | 22.0 | 17.4 | 26.0 |

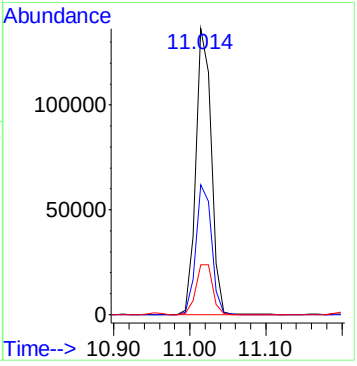


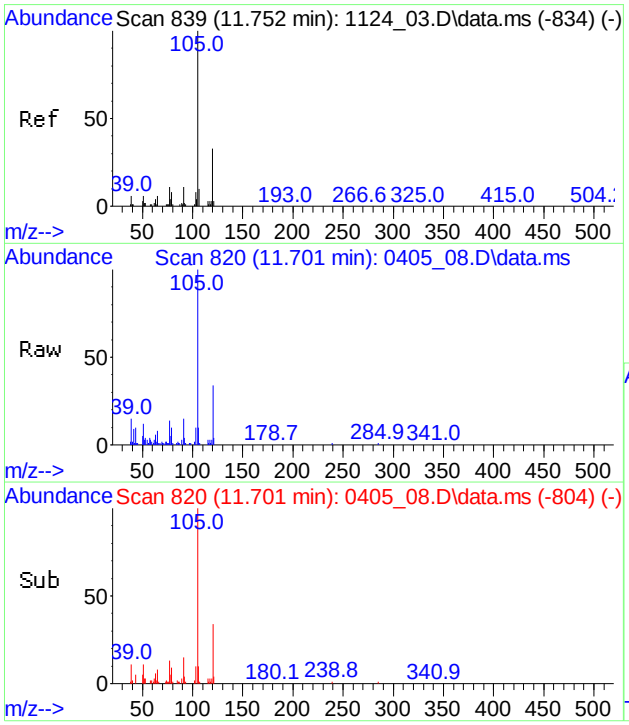




#62
o-Xylene
Conc: 8$ 2.630 ppbv
RT: 11.014 min Scan# 755
Delta R.T. -0.010 min
Lab File: 0405_08.D
Acq: 5 Apr 2021 1:27 pm

Tgt Ion: 91 Resp: 195958

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 45.7 | 41.5 | 62.3 |
| 105 | 18.8 | 15.7 | 23.5 |

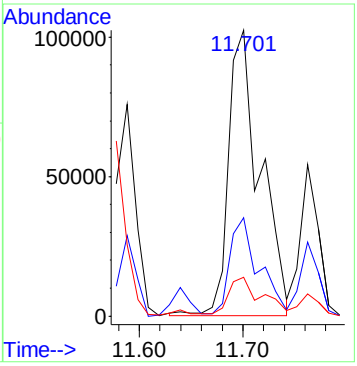


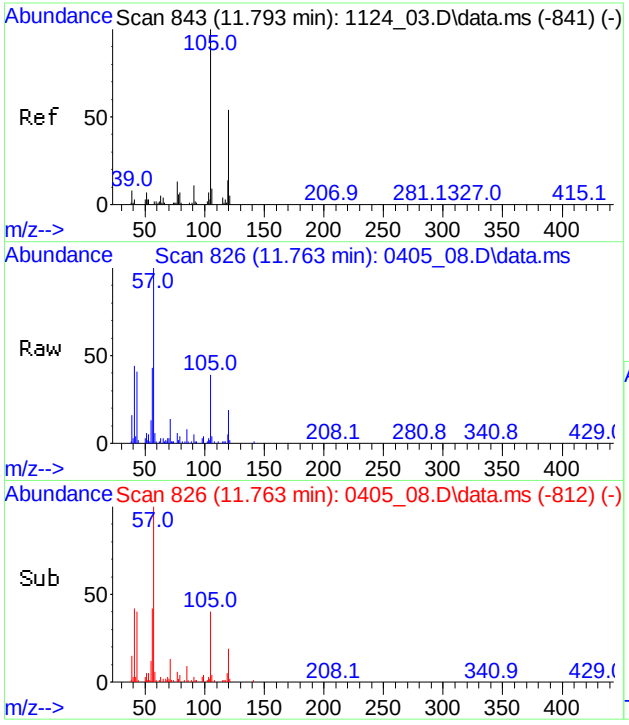



#67
4-Ethyltoluene
Conc: 8$ 2.128 ppbv
RT: 11.701 min Scan# 820
Delta R.T. -0.020 min
Lab File: 0405_08.D
Acq: 5 Apr 2021 1:27 pm

Tgt Ion:105 Resp: 217645

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 32.3 | 24.6 | 36.8 |
| 77 | 14.2 | 11.8 | 17.8 |

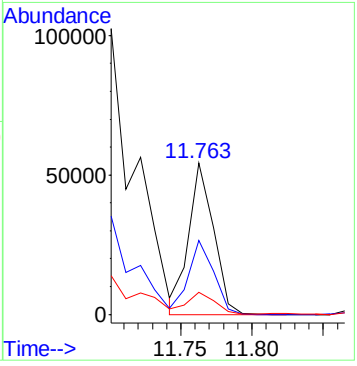


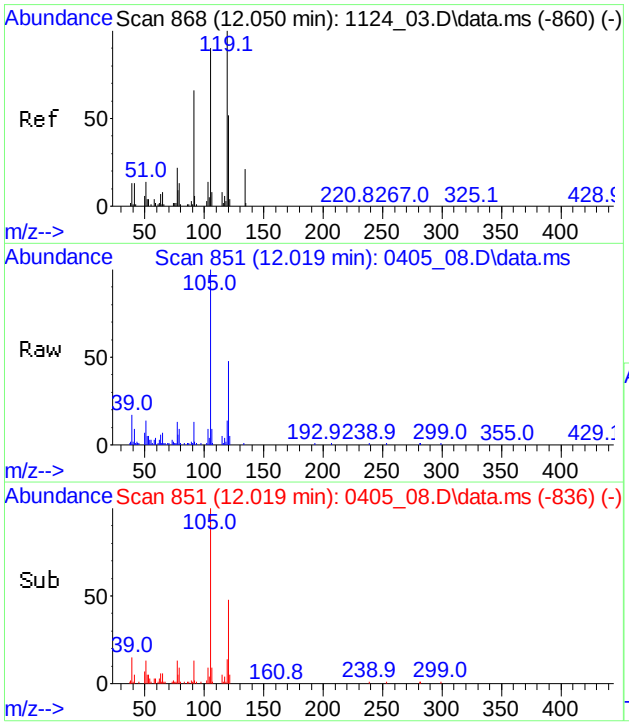




#68
1,3,5-Trimethylbenzene
Conc: 8$ 0.772 ppbv
RT: 11.763 min Scan# 826
Delta R.T. -0.010 min
Lab File: 0405_08.D
Acq: 5 Apr 2021 1:27 pm

Tgt Ion:105 Resp: 65757

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 50.0 | 39.0 | 58.6 |
| 77 | 15.4 | 9.0 | 13.4# |

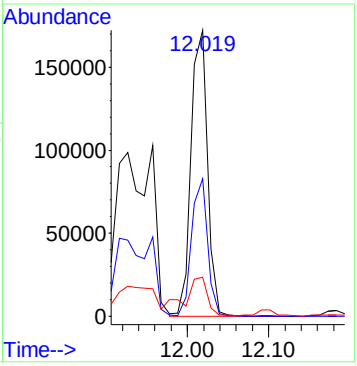


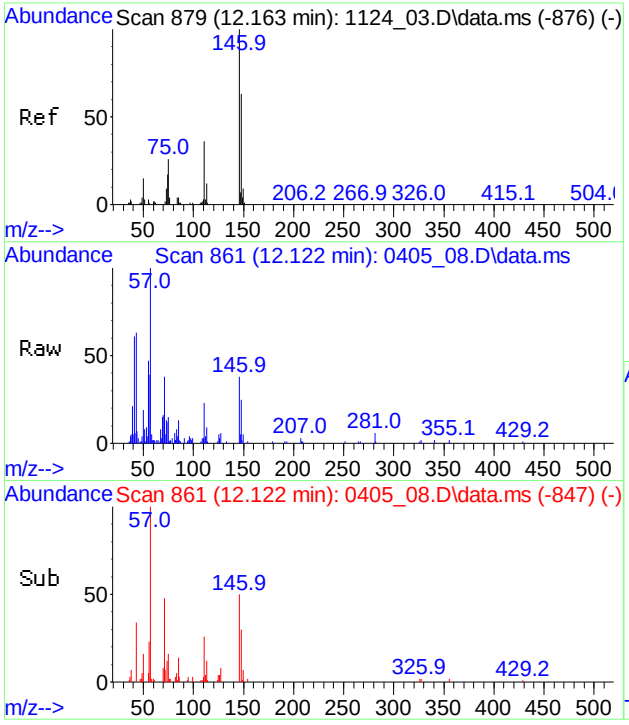



#69
1,2,4-Trimethylbenzene
Conc: 8$ 2.806 ppbv
RT: 12.019 min Scan# 851
Delta R.T. 0.000 min
Lab File: 0405_08.D
Acq: 5 Apr 2021 1:27 pm

Tgt Ion:105 Resp: 243772

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 46.5 | 45.3 | 67.9 |
| 77 | 14.2 | 20.9 | 31.3# |

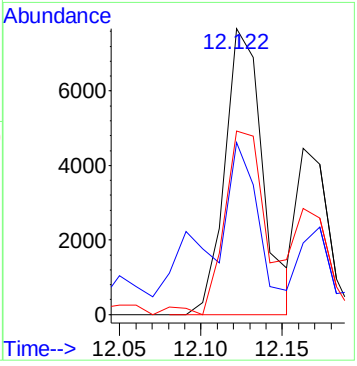


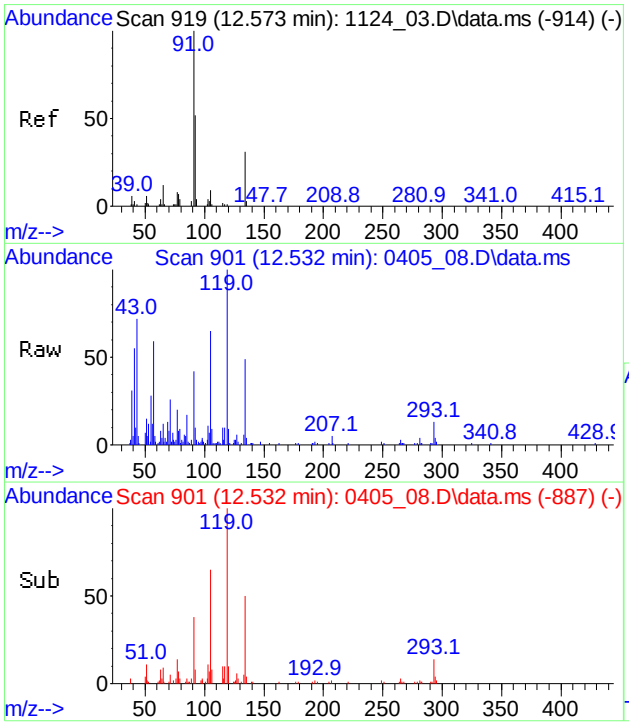




#72
1,3-Dichlorobenzene
Conc: 8$ 0.262 ppbv
RT: 12.122 min Scan# 861
Delta R.T. -0.010 min
Lab File: 0405_08.D
Acq: 5 Apr 2021 1:27 pm

Tgt Ion:146 Resp: 12385

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 65.1 | 34.6 | 52.0# |
| 148 | 70.6 | 53.1 | 79.7 |

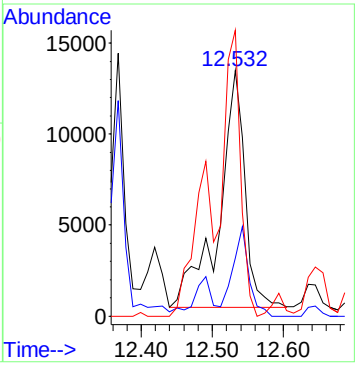


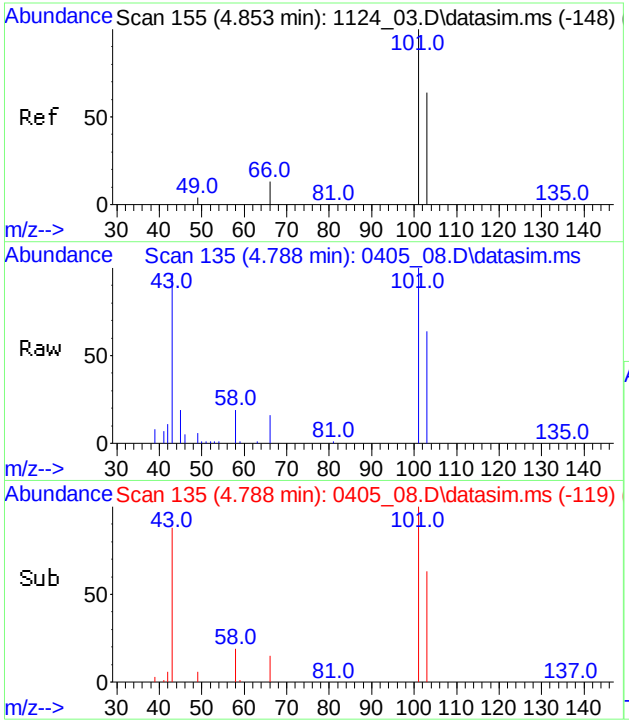



#77
n-Butylbenzene
Conc: 8$ 0.384 ppbv
RT: 12.532 min Scan# 901
Delta R.T. -0.010 min
Lab File: 0405_08.D
Acq: 5 Apr 2021 1:27 pm

Tgt Ion: 91 Resp: 32780

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 23.5 | 42.1 | 63.1# |
| 134 | 78.1 | 19.0 | 28.6# |

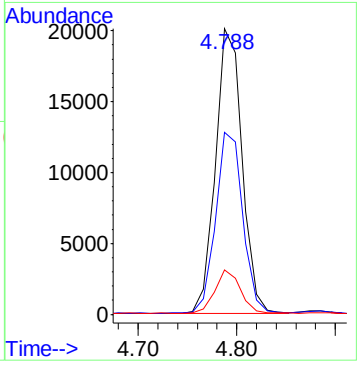


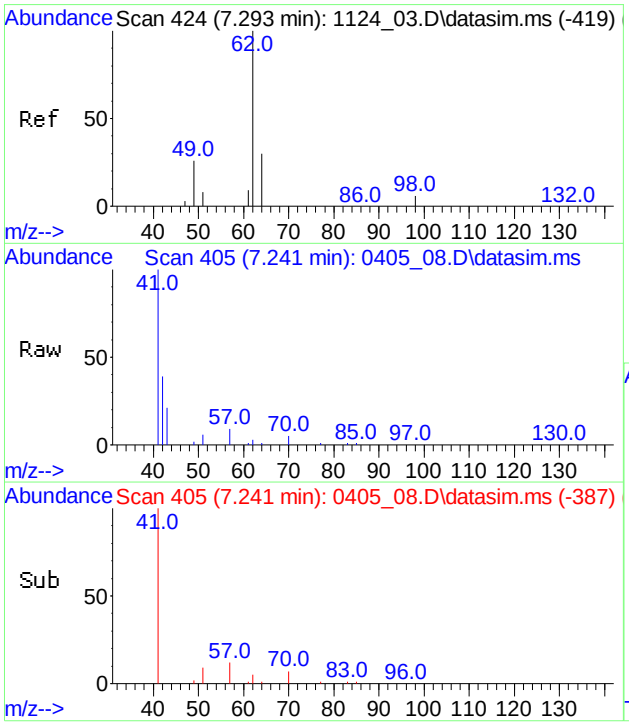




#85
Trichlorofluoromethane(sim)
Conc: 8$ 0.577 ppbv
RT: 4.788 min Scan# 135
Delta R.T. -0.032 min
Lab File: 0405_08.D
Acq: 5 Apr 2021 1:27 pm

Tgt Ion:101 Resp: 37833

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 64.7 | 51.7 | 77.5 |
| 66 | 14.7 | 14.7 | 14.7# |

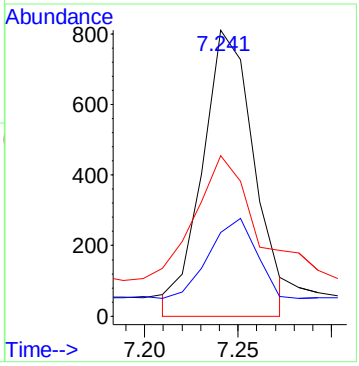


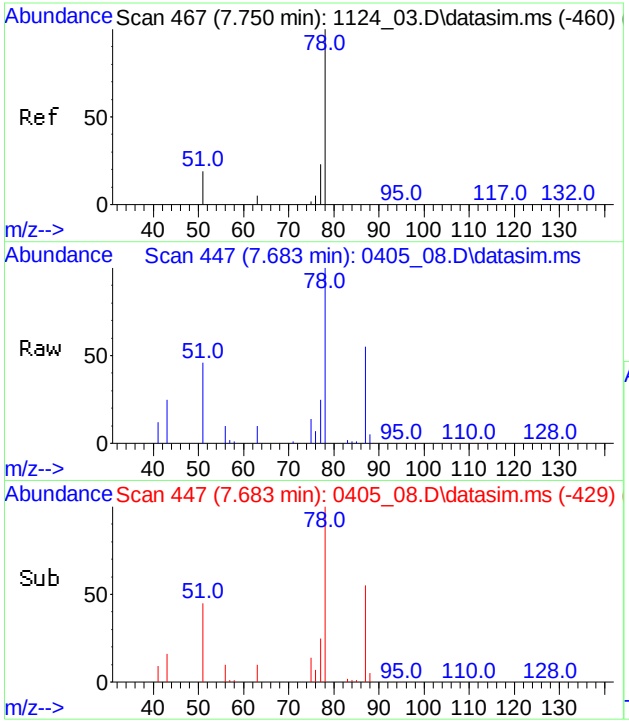



#86
1,2-Dichloroethane(sim)
Conc: 8$ 0.029 ppbv
RT: 7.246 min Scan# 405
Delta R.T. -0.010 min
Lab File: 0405_08.D
Acq: 5 Apr 2021 1:27 pm

Tgt Ion: 62 Resp: 1231

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 27.3 | 21.7 | 32.5 |
| 49 | 71.4 | 35.0 | 52.4# |

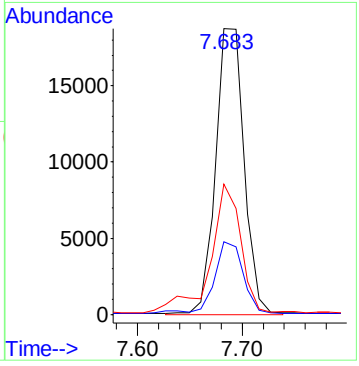


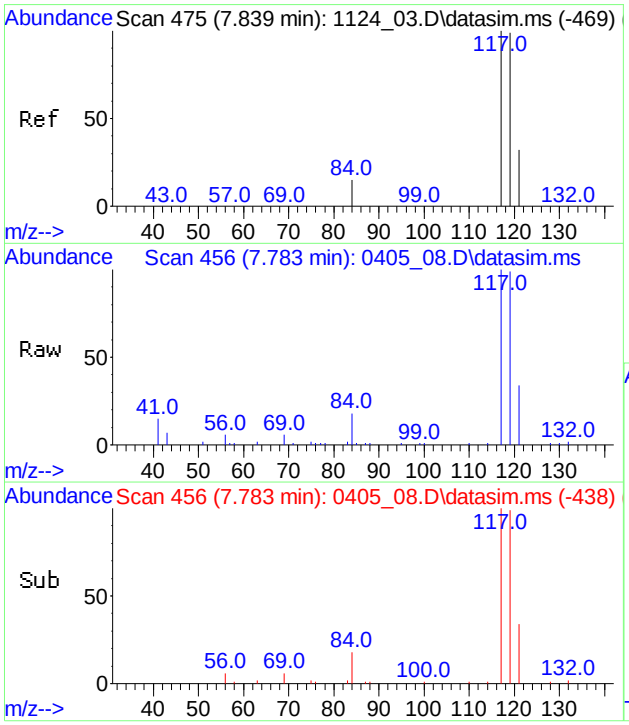




#88
Benzene(sim)
Conc: 8$ 0.563 ppbv
RT: 7.688 min Scan# 447
Delta R.T. 0.000 min
Lab File: 0405_08.D
Acq: 5 Apr 2021 1:27 pm

Tgt Ion: 78 Resp: 30789

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 29.8 | 19.7 | 29.5# |
| 51 | 55.8 | 29.8 | 44.6# |

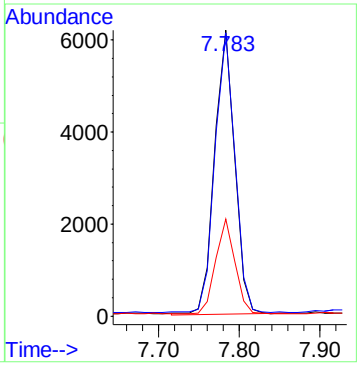


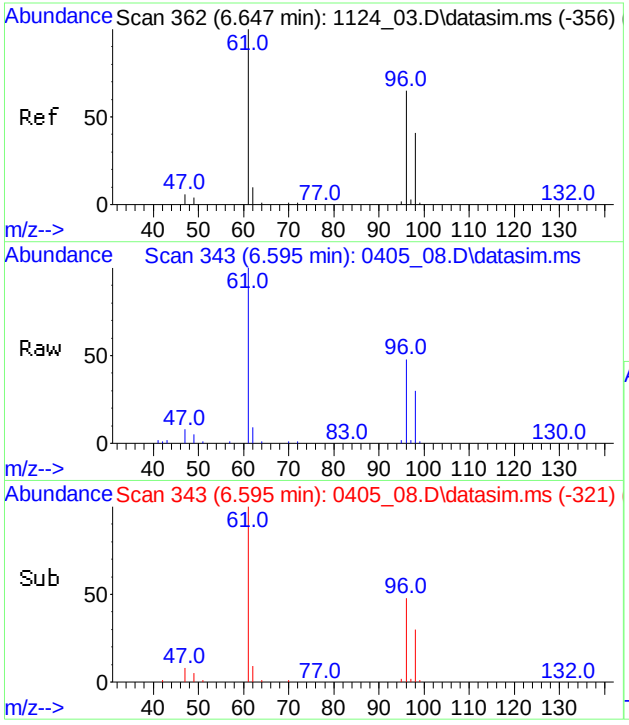



#89
Carbon Tetrachloride(sim)
Conc: 8$ 0.178 ppbv
RT: 7.783 min Scan# 456
Delta R.T. -0.000 min
Lab File: 0405_08.D
Acq: 5 Apr 2021 1:27 pm

Tgt Ion:117 Resp: 10538

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 96.9 | 80.2 | 120.2 |
| 121 | 32.0 | 25.4 | 38.2 |

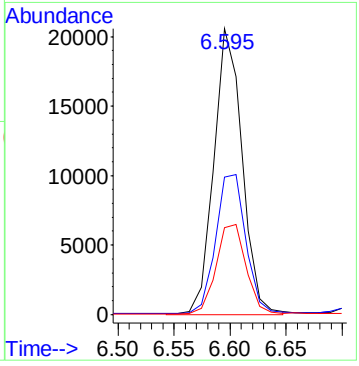


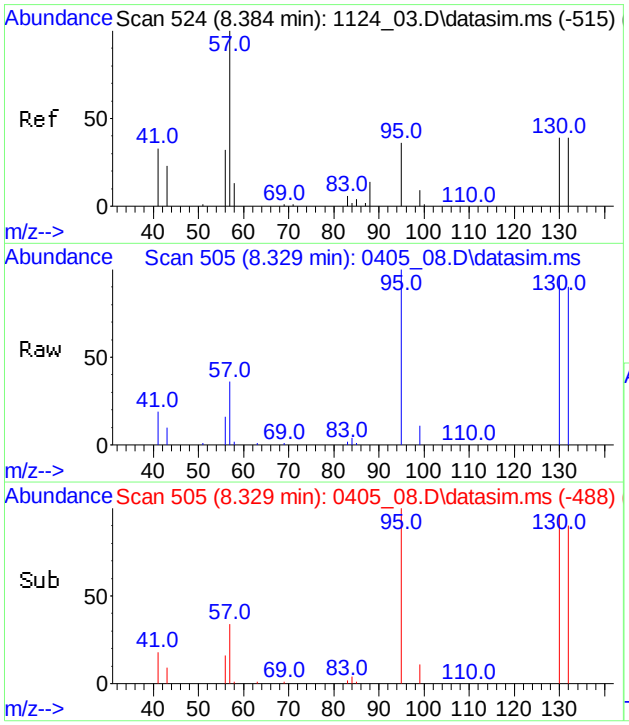




#94
Cis-1,2-Dichloroethene(sim)
Conc: 8$ 0.913 ppbv
RT: 6.600 min Scan# 343
Delta R.T. -0.000 min
Lab File: 0405_08.D
Acq: 5 Apr 2021 1:27 pm

Tgt Ion: 61 Resp: 33396

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 61 | 100 | | |
| 96 | 53.1 | 43.9 | 65.9 |
| 98 | 32.2 | 26.4 | 39.6 |

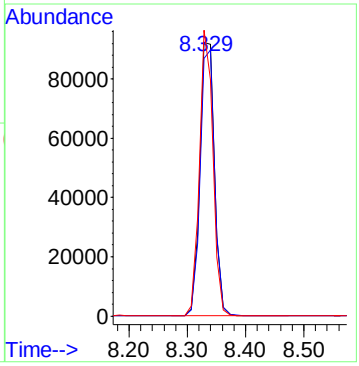


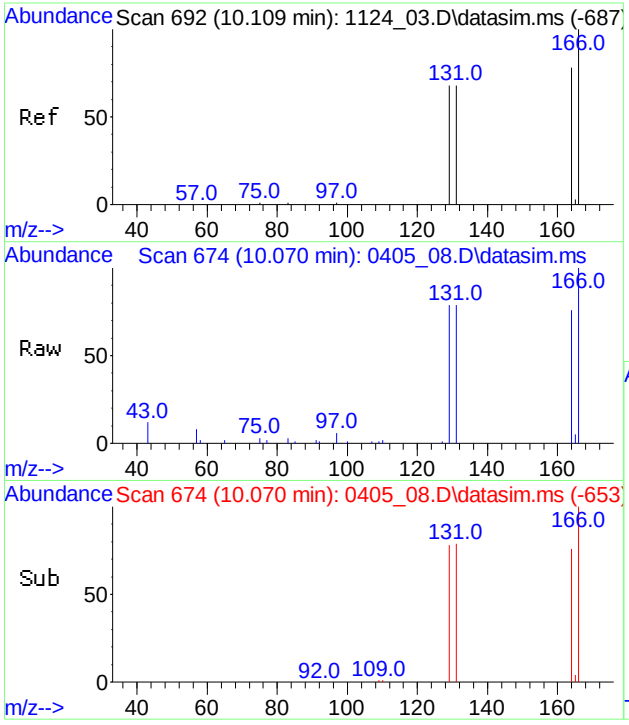



#99
Trichloroethene(sim)
Conc: 8$ 5.164 ppbv
RT: 8.329 min Scan# 505
Delta R.T. -0.011 min
Lab File: 0405_08.D
Acq: 5 Apr 2021 1:27 pm

Tgt Ion:130 Resp: 163056

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 132 | 96.0 | 78.1 | 117.1 |
| 95 | 96.4 | 75.8 | 113.6 |

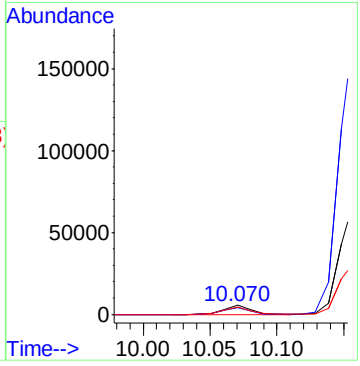


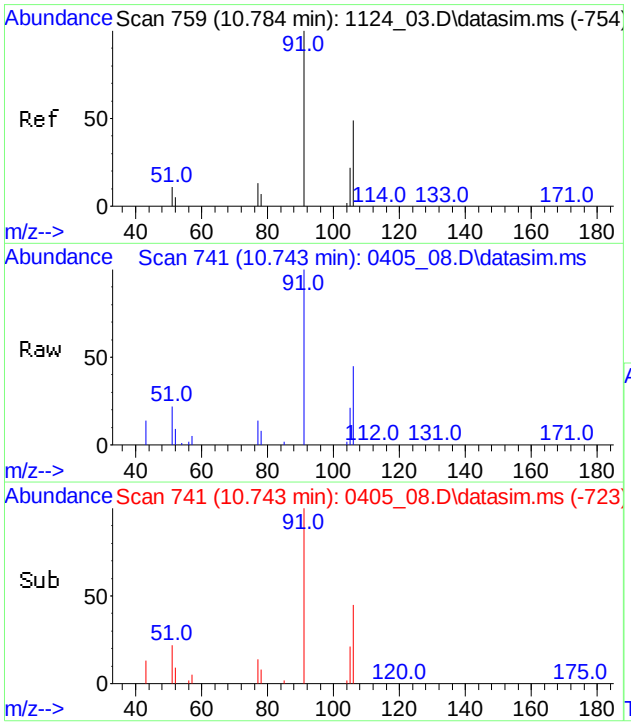




#105
Tetrachloroethene(sim)
Conc: 8$ 0.191 ppbv
RT: 10.070 min Scan# 674
Delta R.T. 0.000 min
Lab File: 0405_08.D
Acq: 5 Apr 2021 1:27 pm

Tgt Ion:166 Resp: 7544

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 166 | 100 | | |
| 164 | 76.9 | 58.1 | 98.1 |
| 129 | 79.2 | 56.6 | 96.6 |

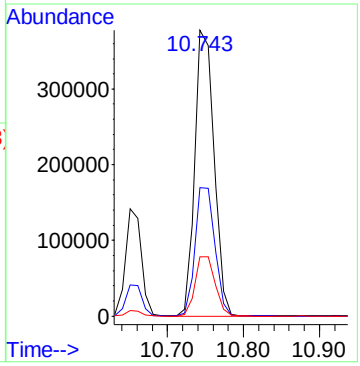


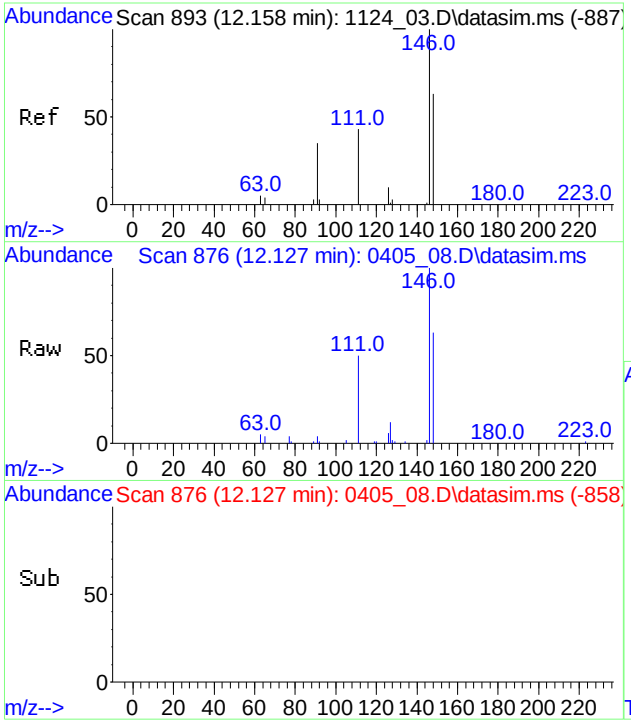



#108
m,p-Xylene(sim)
Conc: 8$ 7.955 ppbv
RT: 10.748 min Scan# 741
Delta R.T. -0.010 min
Lab File: 0405_08.D
Acq: 5 Apr 2021 1:27 pm

Tgt Ion: 91 Resp: 597391

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 47.8 | 41.1 | 50.3 |
| 105 | 22.0 | 17.4 | 26.0 |

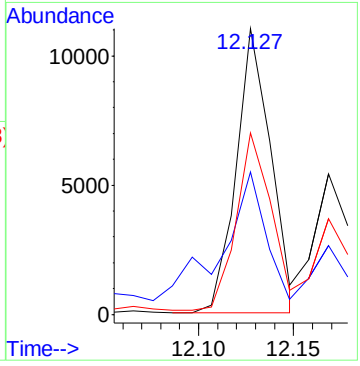


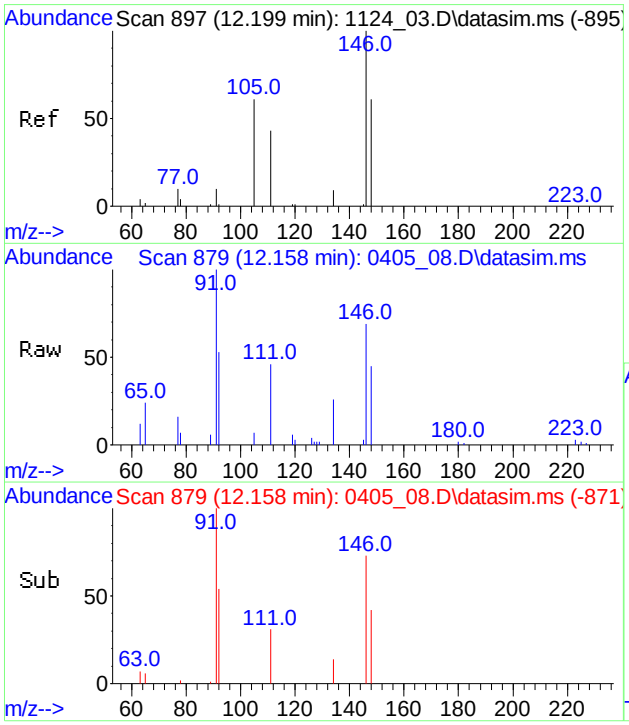




#113
1,3-Dichlorobenzene(sim)
Conc: 8$ 0.281 ppbv
RT: 12.127 min Scan# 876
Delta R.T. -0.011 min
Lab File: 0405_08.D
Acq: 5 Apr 2021 1:27 pm

Tgt Ion:146 Resp: 14025

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 55.6 | 30.3 | 45.5# |
| 148 | 63.3 | 50.5 | 75.7 |

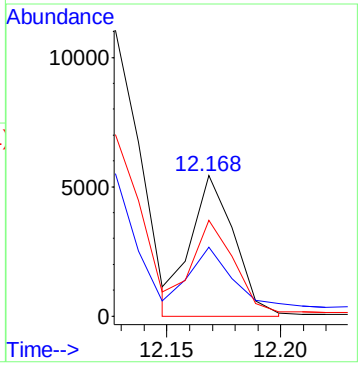





#114
1,4-Dichlorobenzene(sim)
Conc: 8$ 0.156 ppbv
RT: 12.163 min Scan# 879
Delta R.T. -0.010 min
Lab File: 0405_08.D
Acq: 5 Apr 2021 1:27 pm

Tgt Ion:146 Resp: 5816

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 47.4 | 22.4 | 62.4 |
| 148 | 65.5 | 43.0 | 83.0 |



1

AIR ANALYSIS DATA SHEET

CLIENT ID: CANISTER BLK 2113

Client: GC-ENV Lab: Phoenix Env. Labs

SDG No.: GCH92051 Lab Sample ID: CANISTER BLK 2113

Canister: CANBL Lab File ID: 0318_22.D

Instrument: CHEM24 Column: Date Received:

Purge Volume 200 (cc) Date Analyzed: 03/19/21

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 |
| 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 |
| 100-42-5 | Styrene | 0.235 | U | 0.235 | 0.235 | 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 |
| 71-43-2 | Benzene(sim) | 0.313 | U | 0.313 | 0.313 | 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 |

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 2113

Client: GC-ENV Lab: Phoenix Env. Labs

SDG No.: GCH92051 Lab Sample ID: CANISTER BLK 2113

Canister: CANBL Lab File ID: 0318_22.D

Instrument: CHEM24 Column: Date Received:

Purge Volume 200 (cc) Date Analyzed: 03/19/21

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

| CAS NO. | COMPOUND | CONC. | Q | MDL | PQL | 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 |
| 100-41-4 | Ethylbenzene(sim) | 0.230 | U | 0.230 | 0.230 | r |
| 179601-23-1 | m,p-Xylene(sim) | 0.230 | U | 0.230 | 0.230 | r |
| 95-47-6 | o-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 |
| | | | | | | |
| | | | | | | |
| | | | | | | |
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| | | | | | | |

FORM I AIR

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

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045

# Batch Canister Certification

May 03, 2021

Batch Id: 2113

QC Canister Id: 755

SDG ID: GCH92051

Sample Canister Ids: 479, 484

Certification Date: 03/19/21 9:19 AM

Data File: H:\AIR2021\CHEM24\03MAR\18\0318_22.D\0318_22-24AIR_0310.rr

Project ID: 05-003-00 (101 WESTMORELAND AVE)

| Analyte | Result (ppbv) | Analyte | Result (ppbv) |
|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | <0.145758 | 1,1,1-Trichloroethane | <0.183397 |
| 1,1,2,2-Tetrachloroethane | <0.145758 | 1,1,2-Trichloroethane | <0.183397 |
| 1,1-Dichloroethane | <0.247223 | 1,1-Dichloroethene | <0.05047 |
| 1,2,4-Trichlorobenzene | <0.134831 | 1,2-Dibromoethane(EDB) | <0.130217 |
| 1,2-Dichlorobenzene | <0.166427 | 1,2-Dichloroethane | <0.247223 |
| 1,2-dichloropropane | <0.216544 | 1,2-Dichlorotetrafluoroethane | <0.14313 |
| 1,3-Dichlorobenzene | <0.166427 | 1,4-Dichlorobenzene | <0.166427 |
| 1,4-Dioxane | <0.277635 | 4-Isopropyltoluene | <0.182279 |
| Benzene | <0.313214 | Benzyl chloride | <0.193263 |
| Bromodichloromethane | <0.149334 | Bromoform | <0.096803 |
| Bromomethane | <0.25769 | Carbon Tetrachloride | <0.03181 |
| Chloroform | <0.204935 | Cis-1,2-Dichloroethene | <0.05047 |
| cis-1,3-Dichloropropene | <0.220466 | Dibromochloromethane | <0.117463 |
| Ethanol | <0.531062 | Ethyl acetate | <0.277682 |
| Ethylbenzene | <0.23043 | Hexachlorobutadiene | <0.093822 |
| Isopropylalcohol | <0.407075 | m,p-Xylene | <0.230440 |
| n-Butylbenzene | <0.182279 | o-Xylene | <0.230440 |
| Propylene | <0.58139 | sec-Butylbenzene | <0.182279 |
| Tetrachloroethene | <0.03688 | Trans-1,2-Dichloroethene | <0.252374 |
| Trichloroethene | <0.03724 | Trichlorofluoromethane | <0.178099 |
| Trichlorotrifluoroethane | <0.130567 | Vinyl Chloride | <0.07829 |

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2021\CHEM24\03MAR\18\
Data File : 0318_22.D
Acq On : 19 Mar 2021 9:19 am
Operator : Keith
Client ID : CANISTER BLK 2113
Lab ID : CANISTER BLK 2113
ALS Vial : 22 Sample Multiplier: 1

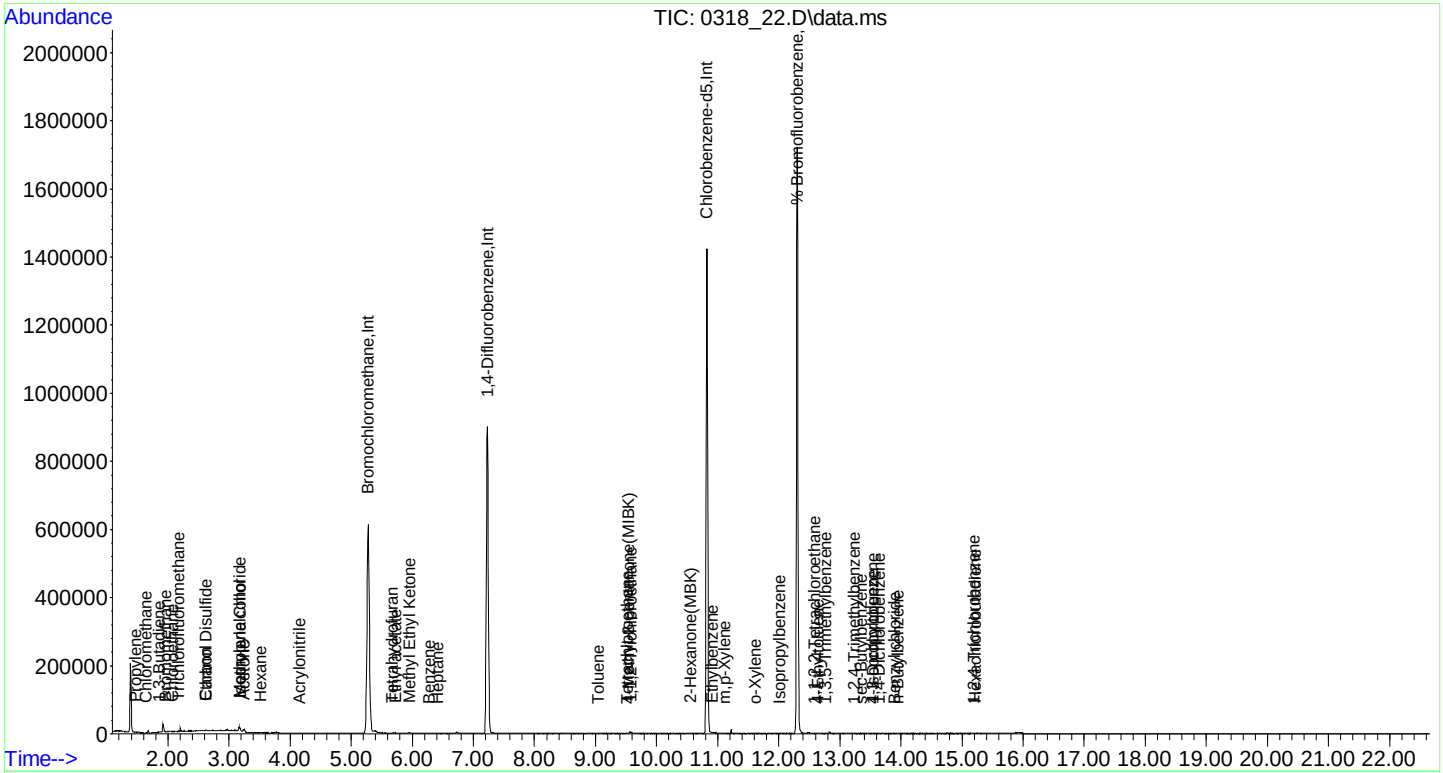
Quant Time: Mar 19 09:58:40 2021
Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 12 10:34:44 2021
Response via : Initial Calibration

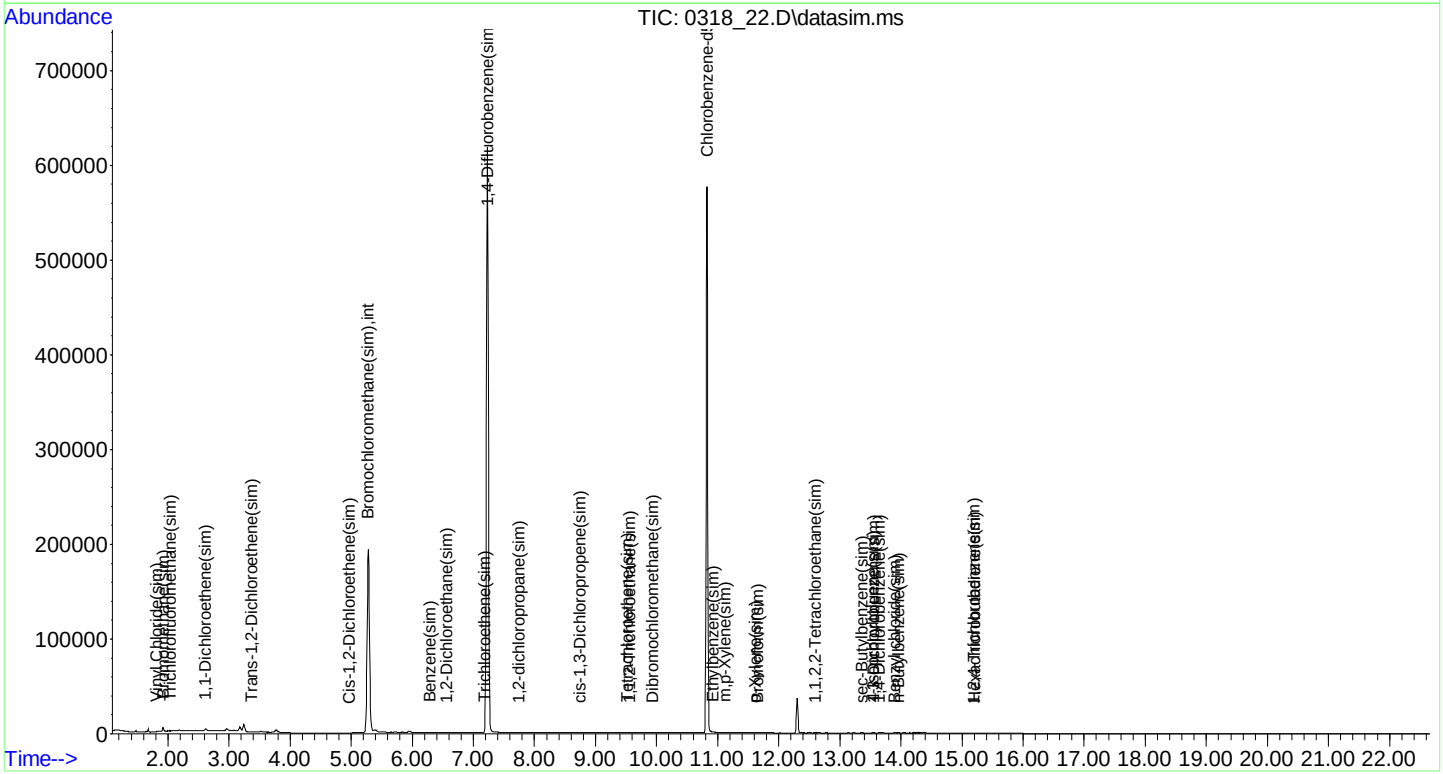
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Bromochloromethane | 5.279 | 130 | 258153 | 10.000 | ng | | 0.01 |
| 36) 1,4-Difluorobenzene | 7.231 | 114 | 792008 | 10.000 | ng | | 0.00 |
| 53) Chlorobenzene-d5 | 10.822 | 82 | 354425 | 10.000 | ng | | 0.00 |
| 80) Bromochloromethane(sim) | 5.282 | 130 | 268188 | 10.000 | ng | # | 0.01 |
| 95) 1,4-Difluorobenzene(sim) | 7.231 | 114 | 792008 | 10.000 | ng | | 0.00 |
| 105) Chlorobenzene-d5(sim) | 10.822 | 82 | 354425 | 10.000 | ng | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 62) % Bromofluorobenzene | 12.303 | 95 | 484175 | 9.849 | ppbv | | 0.00 |
| Spiked Amount 10.000 | Range 70 - 130 | | Recovery = | 98.50% | | | |
| Target Compounds | | | | | | | Qvalue |

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

Data Path : H:\AIR2021\CHEM24\03MAR\18\
Data File : 0318_22.D
Acq On : 19 Mar 2021 9:19 am
Operator : Keith
Client ID : CANISTER BLK 2113
Lab ID : CANISTER BLK 2113
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Mar 19 09:58:40 2021
Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 12 10:34:44 2021
Response via : Initial Calibration



1

AIR ANALYSIS DATA SHEET

CLIENT ID: CANISTER BLK 2118

Client: GC-ENV Lab: Phoenix Env. Labs

SDG No.: GCH92051 Lab Sample ID: CANISTER BLK 2118

Canister: CANBL Lab File ID: 0316_34.D

Instrument: CHEM24 Column: Date Received:

Purge Volume 200 (cc) Date Analyzed: 03/18/21

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 |
| 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 |
| 100-42-5 | Styrene | 0.235 | U | 0.235 | 0.235 | 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 |
| 71-43-2 | Benzene(sim) | 0.313 | U | 0.313 | 0.313 | 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 |

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 2118

Client: GC-ENV Lab: Phoenix Env. Labs

SDG No.: GCH92051 Lab Sample ID: CANISTER BLK 2118

Canister: CANBL Lab File ID: 0316_34.D

Instrument: CHEM24 Column: Date Received:

Purge Volume 200 (cc) Date Analyzed: 03/18/21

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

| CAS NO. | COMPOUND | CONC. | Q | MDL | PQL | 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 |
| 100-41-4 | Ethylbenzene(sim) | 0.230 | U | 0.230 | 0.230 | r |
| 179601-23-1 | m,p-Xylene(sim) | 0.230 | U | 0.230 | 0.230 | r |
| 95-47-6 | o-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 |
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FORM I AIR

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

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045

# Batch Canister Certification

May 04, 2021

Batch Id: 2118

QC Canister Id: 785

SDG ID: GCH92051

Sample Canister Ids 13633, 13651, 18111, 19732, 23345, 28582, 367, 469, 470

Certification Date: 03/18/21 9:09 AM

Data File: H:\AIR2021\CHEM24\03MAR\15\0316_34.D\0316_34-24AIR_0310.rr

Project ID: 05-003-00 (101 WESTMORELAND AVE)

| Analyte | Result (ppbv) | Analyte | Result (ppbv) |
|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | <0.145758 | 1,1,1-Trichloroethane | <0.183397 |
| 1,1,2,2-Tetrachloroethane | <0.145758 | 1,1,2-Trichloroethane | <0.183397 |
| 1,1-Dichloroethane | <0.247223 | 1,1-Dichloroethene | <0.05047 |
| 1,2,4-Trichlorobenzene | <0.134831 | 1,2-Dibromoethane(EDB) | <0.130217 |
| 1,2-Dichlorobenzene | <0.166427 | 1,2-Dichloroethane | <0.247223 |
| 1,2-dichloropropane | <0.216544 | 1,2-Dichlorotetrafluoroethane | <0.14313 |
| 1,3-Dichlorobenzene | <0.166427 | 1,4-Dichlorobenzene | <0.166427 |
| 1,4-Dioxane | <0.277635 | 4-Isopropyltoluene | <0.182279 |
| Benzene | <0.313214 | Benzyl chloride | <0.193263 |
| Bromodichloromethane | <0.149334 | Bromoform | <0.096803 |
| Bromomethane | <0.25769 | Carbon Tetrachloride | <0.03181 |
| Chloroform | <0.204935 | Cis-1,2-Dichloroethene | <0.05047 |
| cis-1,3-Dichloropropene | <0.220466 | Dibromochloromethane | <0.117463 |
| Ethanol | <0.531062 | Ethyl acetate | <0.277682 |
| Ethylbenzene | <0.23043 | Hexachlorobutadiene | <0.093822 |
| Isopropylalcohol | <0.407075 | m,p-Xylene | <0.230440 |
| n-Butylbenzene | <0.182279 | o-Xylene | <0.230440 |
| Propylene | <0.58139 | sec-Butylbenzene | <0.182279 |
| Tetrachloroethene | <0.03688 | Trans-1,2-Dichloroethene | <0.252374 |
| Trichloroethene | <0.03724 | Trichlorofluoromethane | <0.178099 |
| Trichlorotrifluoroethane | <0.130567 | Vinyl Chloride | <0.07829 |

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2021\CHEM24\03MAR\15\
Data File : 0316_34.D
Acq On : 18 Mar 2021 9:09 am
Operator : Keith
Client ID : CANISTER BLK 2118
Lab ID : CANISTER BLK 2118
ALS Vial : 63 Sample Multiplier: 1

Quant Time: Mar 18 10:33:20 2021
Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 12 10:34:44 2021
Response via : Initial Calibration

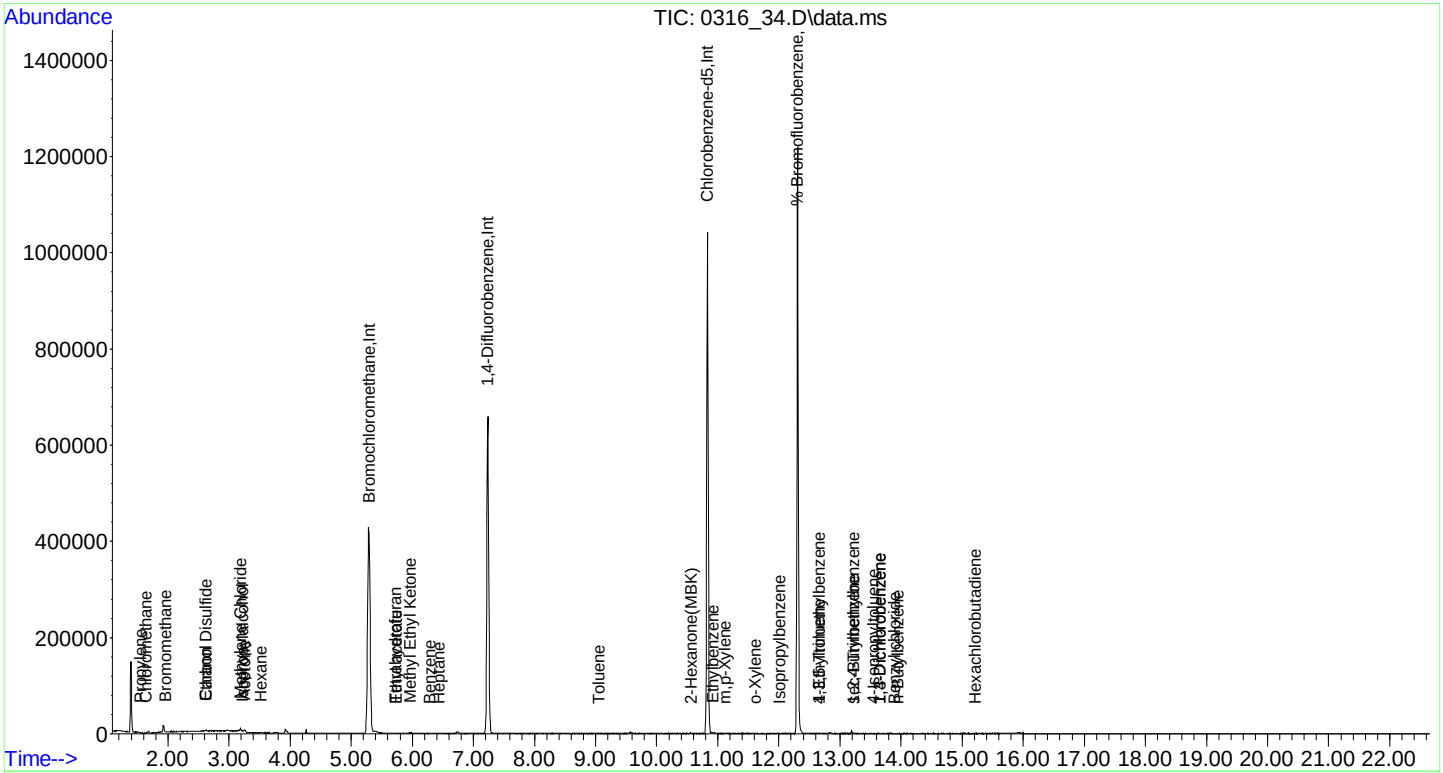
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Bromochloromethane | 5.293 | 130 | 182568 | 10.000 | ng | | 0.03 |
| 36) 1,4-Difluorobenzene | 7.238 | 114 | 565098 | 10.000 | ng | | 0.01 |
| 53) Chlorobenzene-d5 | 10.829 | 82 | 257542 | 10.000 | ng | | 0.01 |
| 80) Bromochloromethane(sim) | 5.289 | 130 | 190279 | 10.000 | ng | # | 0.02 |
| 95) 1,4-Difluorobenzene(sim) | 7.238 | 114 | 565098 | 10.000 | ng | | 0.01 |
| 105) Chlorobenzene-d5(sim) | 10.829 | 82 | 257542 | 10.000 | ng | | 0.01 |
| System Monitoring Compounds | | | | | | | |
| 62) % Bromofluorobenzene | 12.309 | 95 | 344034 | 9.631 | ppbv | | 0.01 |
| Spiked Amount 10.000 | Range 70 - 130 | | Recovery = | 96.30% | | | |
| Target Compounds | | | | | | | Qvalue |

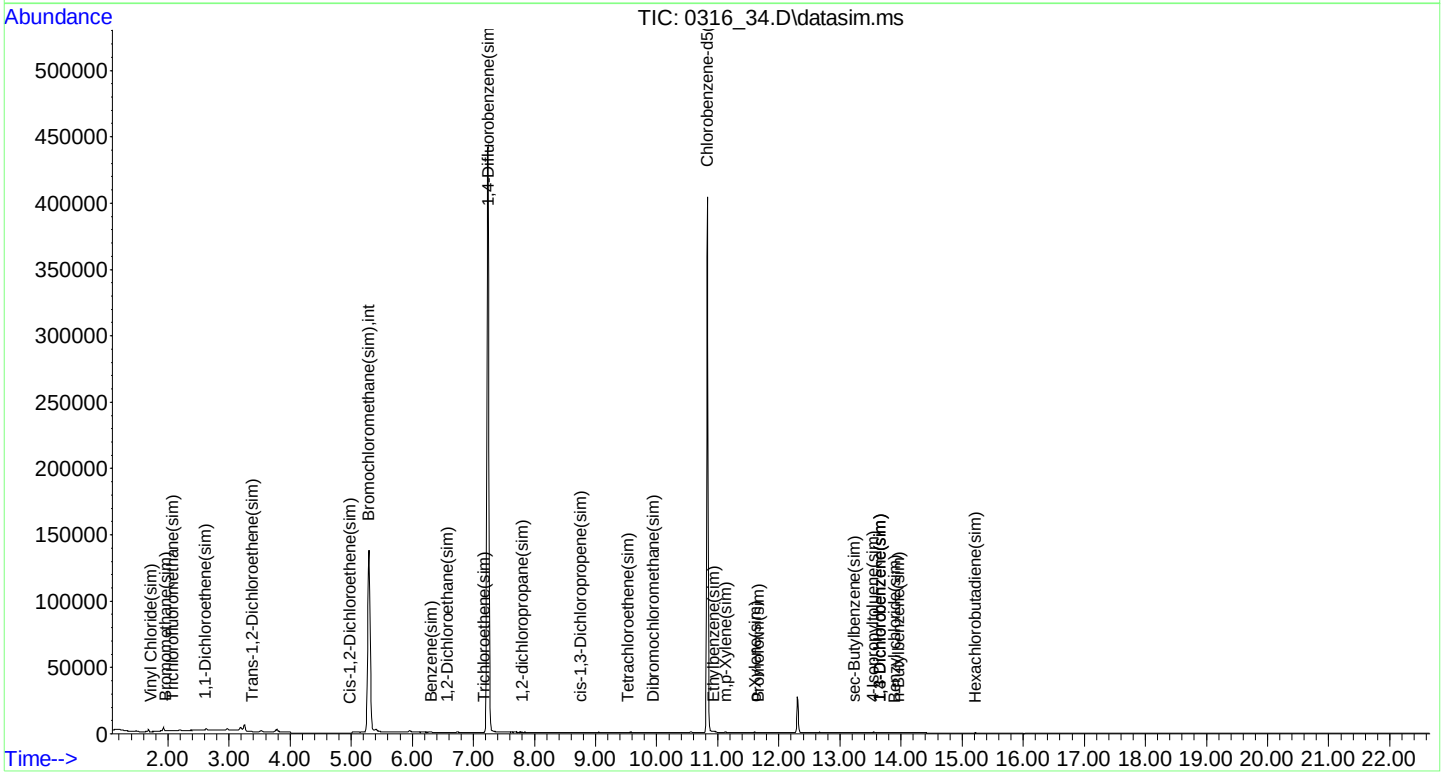
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2021\CHEM24\03MAR\15\
Data File : 0316_34.D
Acq On : 18 Mar 2021 9:09 am
Operator : Keith
Client ID : CANISTER BLK 2118
Lab ID : CANISTER BLK 2118
ALS Vial : 63 Sample Multiplier: 1

Quant Time: Mar 18 10:33:20 2021
Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 12 10:34:44 2021
Response via : Initial Calibration



1

AIR ANALYSIS DATA SHEET

CLIENT ID: CANISTER BLK 2120

Client: GC-ENV Lab: Phoenix Env. Labs

SDG No.: GCH92051 Lab Sample ID: CANISTER BLK 2120

Canister: CANBL Lab File ID: 0318_21.D

Instrument: CHEM24 Column: Date Received:

Purge Volume 200 (cc) Date Analyzed: 03/19/21

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 |
| 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 |
| 100-42-5 | Styrene | 0.235 | U | 0.235 | 0.235 | 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 |
| 71-43-2 | Benzene(sim) | 0.313 | U | 0.313 | 0.313 | 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 |

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 2120

Client: GC-ENV Lab: Phoenix Env. Labs

SDG No.: GCH92051 Lab Sample ID: CANISTER BLK 2120

Canister: CANBL Lab File ID: 0318_21.D

Instrument: CHEM24 Column: Date Received:

Purge Volume 200 (cc) Date Analyzed: 03/19/21

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

| CAS NO. | COMPOUND | CONC. | Q | MDL | PQL | 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 |
| 100-41-4 | Ethylbenzene(sim) | 0.230 | U | 0.230 | 0.230 | r |
| 179601-23-1 | m,p-Xylene(sim) | 0.230 | U | 0.230 | 0.230 | r |
| 95-47-6 | o-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 |
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FORM I AIR

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

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045

# Batch Canister Certification

May 04, 2021

Batch Id: 2120

QC Canister Id: 711

SDG ID: GCH92051

Sample Canister Ids 12864, 28567, 28603

Certification Date: 03/19/21 4:41 AM

Data File: H:\AIR2021\CHEM24\03MAR\18\0318_21.D\0318_21-24AIR_0310.rr

Project ID: 05-003-00 (101 WESTMORELAND AVE)

| Analyte | Result (ppbv) | Analyte | Result (ppbv) |
|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | <0.145758 | 1,1,1-Trichloroethane | <0.183397 |
| 1,1,2,2-Tetrachloroethane | <0.145758 | 1,1,2-Trichloroethane | <0.183397 |
| 1,1-Dichloroethane | <0.247223 | 1,1-Dichloroethene | <0.05047 |
| 1,2,4-Trichlorobenzene | <0.134831 | 1,2-Dibromoethane(EDB) | <0.130217 |
| 1,2-Dichlorobenzene | <0.166427 | 1,2-Dichloroethane | <0.247223 |
| 1,2-dichloropropane | <0.216544 | 1,2-Dichlorotetrafluoroethane | <0.14313 |
| 1,3-Dichlorobenzene | <0.166427 | 1,4-Dichlorobenzene | <0.166427 |
| 1,4-Dioxane | <0.277635 | 4-Isopropyltoluene | <0.182279 |
| Benzene | <0.313214 | Benzyl chloride | <0.193263 |
| Bromodichloromethane | <0.149334 | Bromoform | <0.096803 |
| Bromomethane | <0.25769 | Carbon Tetrachloride | <0.03181 |
| Chloroform | <0.204935 | Cis-1,2-Dichloroethene | <0.05047 |
| cis-1,3-Dichloropropene | <0.220466 | Dibromochloromethane | <0.117463 |
| Ethanol | <0.531062 | Ethyl acetate | <0.277682 |
| Ethylbenzene | <0.23043 | Hexachlorobutadiene | <0.093822 |
| Isopropylalcohol | <0.407075 | m,p-Xylene | <0.230440 |
| n-Butylbenzene | <0.182279 | o-Xylene | <0.230440 |
| Propylene | <0.58139 | sec-Butylbenzene | <0.182279 |
| Tetrachloroethene | <0.03688 | Trans-1,2-Dichloroethene | <0.252374 |
| Trichloroethene | <0.03724 | Trichlorofluoromethane | <0.178099 |
| Trichlorotrifluoroethane | <0.130567 | Vinyl Chloride | <0.07829 |

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2021\CHEM24\03MAR\18\
Data File : 0318_21.D
Acq On : 19 Mar 2021 4:41 am
Operator : Keith
Client ID : CANISTER BLK 2120
Lab ID : CANISTER BLK 2120
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Mar 19 08:41:42 2021
Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 12 10:34:44 2021
Response via : Initial Calibration

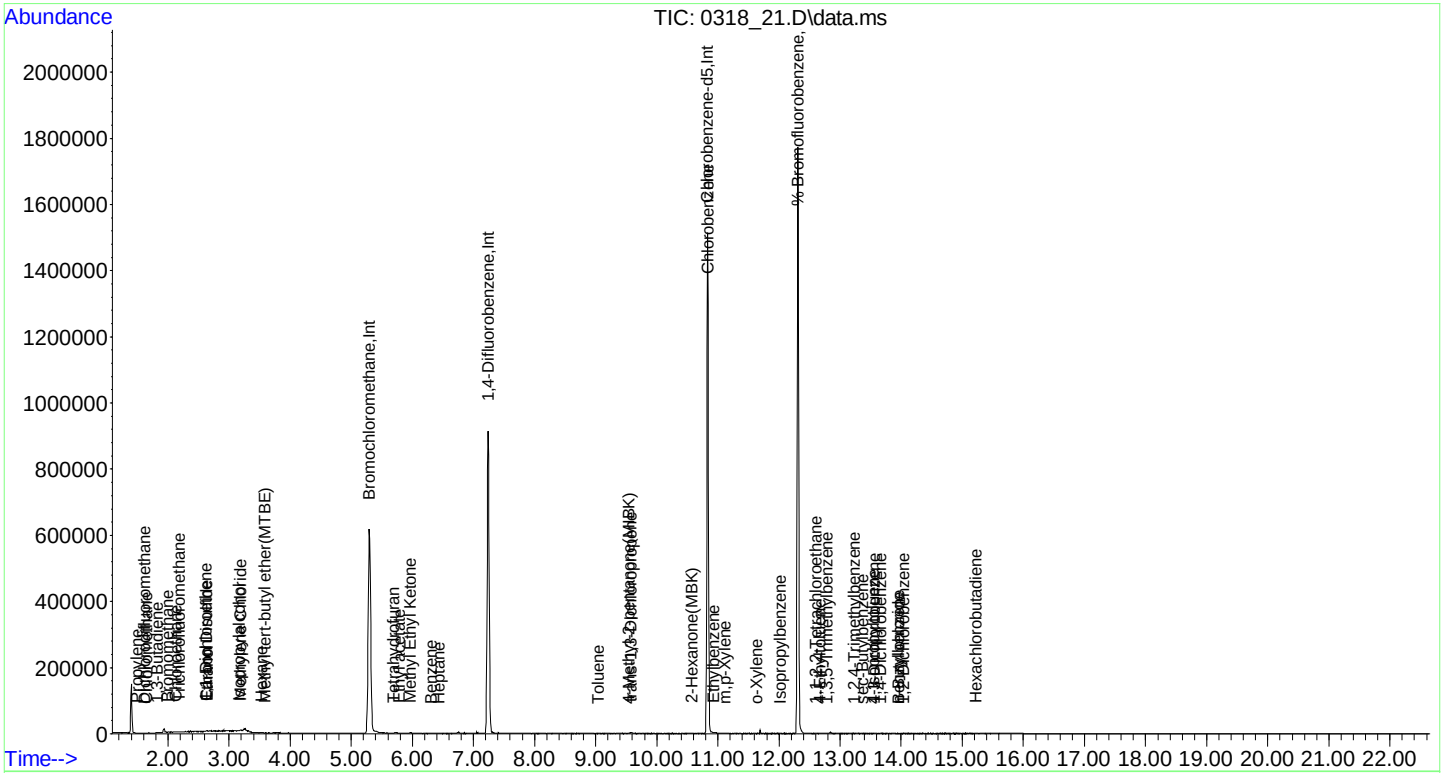
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Bromochloromethane | 5.296 | 130 | 261322 | 10.000 | ng | | 0.03 |
| 36) 1,4-Difluorobenzene | 7.240 | 114 | 801269 | 10.000 | ng | | 0.02 |
| 53) Chlorobenzene-d5 | 10.831 | 82 | 365301 | 10.000 | ng | | 0.02 |
| 80) Bromochloromethane(sim) | 5.299 | 130 | 270231 | 10.000 | ng | # | 0.03 |
| 95) 1,4-Difluorobenzene(sim) | 7.240 | 114 | 801269 | 10.000 | ng | | 0.02 |
| 105) Chlorobenzene-d5(sim) | 10.831 | 82 | 365301 | 10.000 | ng | | 0.02 |
| System Monitoring Compounds | | | | | | | |
| 62) % Bromofluorobenzene | 12.311 | 95 | 493318 | 9.737 | ppbv | | 0.01 |
| Spiked Amount 10.000 | Range 70 - 130 | | Recovery = | 97.40% | | | |
| Target Compounds | | | | | | | Qvalue |

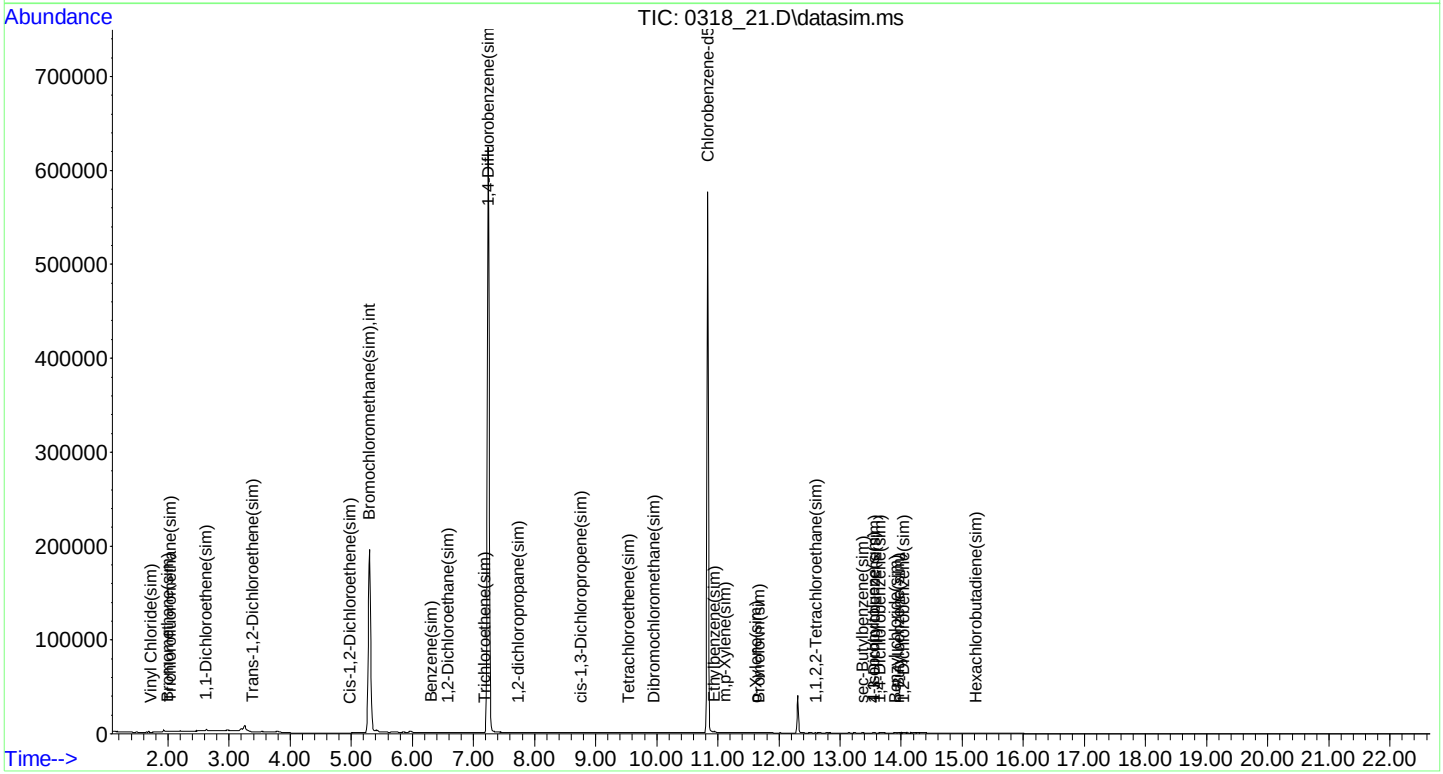
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2021\CHEM24\03MAR\18\
Data File : 0318_21.D
Acq On : 19 Mar 2021 4:41 am
Operator : Keith
Client ID : CANISTER BLK 2120
Lab ID : CANISTER BLK 2120
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Mar 19 08:41:42 2021
Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 12 10:34:44 2021
Response via : Initial Calibration



# Injection Log

Data Directory: H:\AIR2021\CHEM20\03MAR\26\

| Line | Vl | FileName | SampleName | MiscInfo | Injection Time |
|---|---|---|---|---|---|
| 1) | 4 | 0326_01.D | xxxxxxxxxx | | 03/26/21 15:54 |
| 2) | 5 | 0326_02.D | xxxxxxxxxx | | 03/26/21 16:29 |
| 3) | 6 | 0326_03.D | BFB TUNE | 0/0 | 03/26/21 17:03 |
| 4) | 7 | 0326_04.D | xxxxxxxxxx | | 03/26/21 18:31 |
| 5) | 3 | 0326_05.D | ICAL 0.02 | 0.02 | 03/26/21 19:51 |
| 6) | 4 | 0326_06.D | ICAL 0.035 | 0.035 | 03/26/21 20:27 |
| 7) | 5 | 0326_07.D | ICAL 0.05 | 0.05 | 03/26/21 21:03 |
| 8) | 6 | 0326_08.D | ICAL 0.1 | 0.10 | 03/26/21 21:39 |
| 9) | 7 | 0326_09.D | ICAL 0.25 | 0.20 | 03/26/21 22:16 |
| 10) | 8 | 0326_10.D | ICAL 0.5 | 0.50 | 03/26/21 22:53 |
| 11) | 9 | 0326_11.D | ICAL 2.5 | 2.5 | 03/26/21 23:32 |
| 12) | 10 | 0326_12.D | ICAL 5 | 5.0 | 03/27/21 0:08 |
| 13) | 11 | 0326_13.D | ICAL 25 | 25 | 03/27/21 0:46 |
| 14) | 12 | 0326_14.D | ICAL 40 | 40 | 03/27/21 1:25 |
| 15) | 13 | 0326_15.D | xxxxxxxxxx | | 03/27/21 2:00 |
| 16) | 14 | 0326_16.D | ICAL 1 | 1ppb cc | 03/27/21 2:36 |
| 17) | 15 | 0326_17.D | ICAL 10 | 10ppb cc | 03/27/21 3:13 |
| 18) | 16 | 0326_18.D | xxxxxxxxxx | | 03/27/21 3:51 |
| 19) | 17 | 0326_19.D | xxxxxxxxxx | | 03/27/21 4:26 |
| 20) | 18 | 0326_20.D | xxxxxxxxxx | | 03/27/21 5:00 |

# Injection Log

Data Directory: H:\AIR2021\CHEM20\04APR\05\

| Line | Vl | FileName | SampleName | MiscInfo | Injection Time |
|---|---|---|---|---|---|
| 1) | 1 | 0405_01.D | xxxxxxxxxx | | 04/05/21 7:48 |
| 2) | 2 | 0405_02.D | BFB TUNE - CCAL 1 | 1.0ppb cc - 1.0ppb | 04/05/21 8:25 |
| 3) | 3 | 0405_03.D | xxxxxxxxxx | | 04/05/21 10:12 |
| 4) | 4 | 0405_04.D | CH91177 LCS | CH91177 LCS | 04/05/21 10:51 |
| 5) | 5 | 0405_05.D | xxxxxxxxxx | | 04/05/21 11:26 |
| 6) | 6 | 0405_06.D | CH91177 BLANK | CH91177 BLANK | 04/05/21 12:00 |
| 7) | 7 | 0405_07.D | CH91177 QC | CH91177 QC | 04/05/21 12:43 |
| 8) | 8 | 0405_08.D | 91177 0.5x dup | CH91177 DUP | 04/05/21 13:27 |
| 9) | 9 | 0405_09.D | xxxxxxxxxx | | 04/05/21 14:09 |
| 10) | 10 | 0405_10.D | xxxxxxxxxx | | 04/05/21 14:51 |
| 11) | 11 | 0405_11.D | xxxxxxxxxx | | 04/05/21 15:29 |
| 12) | 12 | 0405_12.D | xxxxxxxxxx | | 04/05/21 16:07 |
| 13) | 13 | 0405_13.D | xxxxxxxxxx | | 04/05/21 16:45 |
| 14) | 14 | 0405_14.D | xxxxxxxxxx | | 04/05/21 17:22 |
| 15) | 15 | 0405_15.D | xxxxxxxxxx | | 04/05/21 18:00 |
| 16) | 16 | 0405_16.D | xxxxxxxxxx | | 04/05/21 18:37 |
| 17) | 17 | 0405_17.D | OA-1 | CH92055 | 04/05/21 19:33 |
| 18) | 18 | 0405_18.D | IA-1 | CH92062 | 04/05/21 20:13 |
| 19) | 19 | 0405_19.D | xxxxxxxxxx | | 04/05/21 20:50 |
| 20) | 20 | 0405_20.D | SS-7 5X | CH92052 5X | 04/05/21 21:28 |
| 21) | 21 | 0405_21.D | SS-5 5X | CH92053 5X | 04/05/21 22:05 |
| 22) | 22 | 0405_22.D | xxxxxxxxxx | | 04/05/21 22:42 |
| 23) | 23 | 0405_23.D | SS-6 5X | CH92056 5X | 04/05/21 23:20 |
| 24) | 24 | 0405_24.D | SS-4 5X | CH92057 5X | 04/05/21 23:57 |
| 25) | 25 | 0405_25.D | SS-11 (5') 5X | CH92058 5X | 04/06/21 0:34 |
| 26) | 26 | 0405_26.D | xxxxxxxxxx | | 04/06/21 1:12 |
| 27) | 27 | 0405_27.D | xxxxxxxxxx | | 04/06/21 1:49 |
| 28) | 28 | 0405_28.D | xxxxxxxxxx | | 04/06/21 2:26 |
| 29) | 29 | 0405_29.D | SS-2 5X | CH92063 5X | 04/06/21 3:03 |
| 30) | 30 | 0405_30.D | SS-3 5X | CH92064 5X | 04/06/21 3:41 |
| 31) | 31 | 0405_31.D | xxxxxxxxxx | | 04/06/21 9:01 |
| 32) | 32 | 0405_32.D | xxxxxxxxxx | | 04/06/21 9:43 |
| 33) | 33 | 0405_33.D | xxxxxxxxxx | | 04/06/21 10:20 |

# Injection Log

Data Directory: H:\AIR2021\CHEM24\03MAR\10\

| Line | Vl | FileName | SampleName | MiscInfo | Injection Time |
|---|---|---|---|---|---|
| 1) | 45 | 0310_01.D | xxxxxxxxx | | 03/10/21 10:27 |
| 2) | 46 | 0310_02.D | BFB TUNE | 0/0 | 03/10/21 10:54 |
| 3) | 47 | 0310_03.D | ICAL 0.02 | 0.02 | 03/10/21 11:22 |
| 4) | 48 | 0310_04.D | ICAL 0.035 | 0.035 | 03/10/21 11:50 |
| 5) | 49 | 0310_05.D | ICAL 0.05 | 0.05 | 03/10/21 12:18 |
| 6) | 50 | 0310_06.D | ICAL 0.1 | 0.10 | 03/10/21 12:46 |
| 7) | 51 | 0310_07.D | ICAL 0.25 | 0.20 | 03/10/21 13:16 |
| 8) | 52 | 0310_08.D | ICAL 0.5 | 0.50 | 03/10/21 13:48 |
| 9) | 53 | 0310_09.D | ICAL 2.5 | 2.5 | 03/10/21 14:21 |
| 10) | 54 | 0310_10.D | ICAL 5 | 5.0 | 03/10/21 14:50 |
| 11) | 55 | 0310_11.D | ICAL 25 | 25 | 03/10/21 15:23 |
| 12) | 56 | 0310_12.D | ICAL 40 | 40 | 03/10/21 15:59 |
| 13) | 57 | 0310_13.D | xxxxxxxxx | | 03/10/21 16:27 |
| 14) | 58 | 0310_14.D | ICAL 1 | 1ppb | 03/10/21 16:57 |
| 15) | 59 | 0310_15.D | ICAL 10 | 10ppb | 03/10/21 17:26 |
| 16) | 60 | 0310_16.D | xxxxxxxxx | | 03/10/21 18:00 |
| 17) | 61 | 0310_17.D | xxxxxxxxx | | 03/10/21 18:29 |
| 18) | 62 | 0310_18.D | xxxxxxxxx | | 03/10/21 18:57 |

# Injection Log

Data Directory: H:\AIR2021\CHEM24\03MAR\15\

| Line | Vl | FileName | SampleName | MiscInfo | Injection Time |
|---|---|---|---|---|---|
| 1) | 1 | 0315_01.D | xxxxxxxxxx | | 03/15/21 15:17 |
| 2) | 2 | 0315_02.D | xxxxxxxxxx | | 03/15/21 15:56 |
| 3) | 3 | 0315_03.D | xxxxxxxxxx | | 03/15/21 16:27 |
| 4) | 4 | 0315_04.D | xxxxxxxxxx | | 03/15/21 17:00 |
| 5) | 5 | 0315_05.D | xxxxxxxxxx | | 03/15/21 17:28 |
| 6) | 6 | 0315_06.D | xxxxxxxxxx | | 03/15/21 17:56 |
| 7) | 7 | 0315_07.D | xxxxxxxxxx | | 03/15/21 18:29 |
| 8) | 8 | 0315_08.D | xxxxxxxxxx | | 03/15/21 19:03 |
| 9) | 9 | 0315_09.D | xxxxxxxxxx | | 03/15/21 19:42 |
| 10) | 10 | 0315_10.D | xxxxxxxxxx | | 03/15/21 20:23 |
| 11) | 11 | 0315_11.D | xxxxxxxxxx | | 03/15/21 21:05 |
| 12) | 12 | 0315_12.D | xxxxxxxxxx | | 03/15/21 21:46 |
| 13) | 13 | 0315_13.D | xxxxxxxxxx | | 03/15/21 22:17 |
| 14) | 14 | 0315_14.D | xxxxxxxxxx | | 03/15/21 23:34 |
| 15) | 15 | 0315_15.D | xxxxxxxxxx | | 03/16/21 0:27 |
| 16) | 16 | 0315_16.D | xxxxxxxxxx | | 03/16/21 1:07 |
| 17) | 17 | 0315_17.D | xxxxxxxxxx | | 03/16/21 1:39 |
| 18) | 18 | 0315_18.D | xxxxxxxxxx | | 03/16/21 2:11 |
| 19) | 19 | 0315_19.D | xxxxxxxxxx | | 03/16/21 2:42 |
| 20) | 20 | 0315_20.D | xxxxxxxxxx | | 03/16/21 3:13 |
| 21) | 21 | 0315_21.D | xxxxxxxxxx | | 03/16/21 3:45 |
| 22) | 21 | 0315_22.D | xxxxxxxxxx | | 03/16/21 7:48 |
| 23) | 22 | 0315_23.D | xxxxxxxxxx | | 03/16/21 8:21 |
| 24) | 23 | 0315_24.D | xxxxxxxxxx | | 03/16/21 8:55 |
| 25) | 24 | 0315_25.D | xxxxxxxxxx | | 03/16/21 9:28 |
| 26) | 25 | 0315_26.D | xxxxxxxxxx | | 03/16/21 10:01 |
| 27) | 26 | 0315_27.D | xxxxxxxxxx | | 03/16/21 10:30 |
| 28) | 27 | 0315_28.D | xxxxxxxxxx | | 03/16/21 11:00 |
| 29) | 28 | 0315_29.D | xxxxxxxxxx | | 03/16/21 11:33 |
| 30) | 29 | 0315_30.D | xxxxxxxxxx | | 03/16/21 12:08 |
| 31) | 30 | 0316_01.D | xxxxxxxxxx | | 03/16/21 12:38 |
| 32) | 31 | 0316_02.D | xxxxxxxxxx | | 03/16/21 13:08 |
| 33) | 32 | 0316_03.D | xxxxxxxxxx | | 03/16/21 13:42 |
| 34) | 33 | 0316_04.D | xxxxxxxxxx | | 03/16/21 14:09 |
| 35) | 34 | 0316_05.D | xxxxxxxxxx | | 03/16/21 14:37 |
| 36) | 35 | 0316_06.D | xxxxxxxxxx | | 03/17/21 8:49 |
| 37) | 36 | 0316_07.D | xxxxxxxxxx | | 03/17/21 9:24 |
| 38) | 37 | 0316_08.D | xxxxxxxxxx | | 03/17/21 9:52 |
| 39) | 38 | 0316_09.D | xxxxxxxxxx | | 03/17/21 10:21 |
| 40) | 39 | 0316_10.D | xxxxxxxxxx | | 03/17/21 10:54 |
| 41) | 40 | 0316_11.D | xxxxxxxxxx | | 03/17/21 11:27 |
| 42) | 41 | 0316_12.D | xxxxxxxxxx | | 03/17/21 12:00 |
| 43) | 42 | 0316_13.D | xxxxxxxxxx | | 03/17/21 12:29 |
| 44) | 43 | 0316_14.D | xxxxxxxxxx | | 03/17/21 12:59 |
| 45) | 44 | 0316_15.D | xxxxxxxxxx | | 03/17/21 13:33 |
| 46) | 45 | 0316_16.D | xxxxxxxxxx | | 03/17/21 14:00 |
| 47) | 46 | 0316_17.D | xxxxxxxxxx | | 03/17/21 14:28 |
| 48) | 47 | 0316_18.D | xxxxxxxxxx | | 03/17/21 18:26 |
| 49) | 48 | 0316_19.D | xxxxxxxxxx | | 03/17/21 18:55 |
| 50) | 49 | 0316_20.D | xxxxxxxxxx | | 03/17/21 19:25 |
| 51) | 50 | 0316_21.D | xxxxxxxxxx | | 03/17/21 19:54 |
| 52) | 51 | 0316_22.D | xxxxxxxxxx | | 03/17/21 20:23 |
| 53) | 52 | 0316_23.D | xxxxxxxxxx | | 03/17/21 20:52 |
| 54) | 53 | 0316_24.D | xxxxxxxxxx | | 03/17/21 21:20 |
| 55) | 54 | 0316_25.D | xxxxxxxxxx | | 03/17/21 21:54 |
| 56) | 55 | 0316_26.D | xxxxxxxxxx | | 03/17/21 22:27 |
| 57) | 56 | 0316_27.D | xxxxxxxxxx | | 03/17/21 23:01 |
| 58) | 57 | 0316_28.D | xxxxxxxxxx | | 03/17/21 23:35 |
| 59) | 58 | 0316_29.D | xxxxxxxxxx | | 03/18/21 0:31 |
| 60) | 59 | 0316_30.D | xxxxxxxxxx | | 03/18/21 1:07 |
| 61) | 60 | 0316_31.D | xxxxxxxxxx | | 03/18/21 1:36 |
| 62) | 61 | 0316_32.D | xxxxxxxxxx | | 03/18/21 2:11 |
| 63) | 62 | 0316_33.D | xxxxxxxxxx | | 03/18/21 2:46 |
| 64) | 63 | 0316_34.D | CANISTER BLK 2118 | CANISTER BLK 2118 | 03/18/21 9:09 |
| 65) | 64 | 0316_35.D | xxxxxxxxxx | | 03/18/21 9:42 |
| 66) | 65 | 0316_36.D | xxxxxxxxxx | | 03/18/21 10:12 |
| 67) | 66 | 0316_37.D | xxxxxxxxxx | | 03/18/21 10:42 |

# Injection Log

Data Directory: H:\AIR2021\CHEM24\03MAR\18\

| Line | Vl | FileName | SampleName | MiscInfo | Injection Time |
|---|---|---|---|---|---|
| 1) | 1 | 0318_01.D | xxxxxxxxxx | | 03/18/21 14:17 |
| 2) | 2 | 0318_02.D | xxxxxxxxxx | | 03/18/21 14:47 |
| 3) | 3 | 0318_03.D | xxxxxxxxxx | | 03/18/21 15:18 |
| 4) | 4 | 0318_04.D | xxxxxxxxxx | | 03/18/21 15:51 |
| 5) | 5 | 0318_05.D | xxxxxxxxxx | | 03/18/21 16:19 |
| 6) | 6 | 0318_06.D | xxxxxxxxxx | | 03/18/21 18:31 |
| 7) | 7 | 0318_07.D | xxxxxxxxxx | | 03/18/21 19:10 |
| 8) | 8 | 0318_08.D | xxxxxxxxxx | | 03/18/21 19:50 |
| 9) | 9 | 0318_09.D | xxxxxxxxxx | | 03/18/21 20:31 |
| 10) | 10 | 0318_10.D | xxxxxxxxxx | | 03/18/21 21:12 |
| 11) | 11 | 0318_11.D | xxxxxxxxxx | | 03/18/21 22:03 |
| 12) | 12 | 0318_12.D | xxxxxxxxxx | | 03/18/21 22:54 |
| 13) | 13 | 0318_13.D | xxxxxxxxxx | | 03/18/21 23:58 |
| 14) | 14 | 0318_14.D | xxxxxxxxxx | | 03/19/21 0:29 |
| 15) | 15 | 0318_15.D | xxxxxxxxxx | | 03/19/21 1:00 |
| 16) | 16 | 0318_16.D | xxxxxxxxxx | | 03/19/21 1:31 |
| 17) | 17 | 0318_17.D | xxxxxxxxxx | | 03/19/21 2:21 |
| 18) | 18 | 0318_18.D | xxxxxxxxxx | | 03/19/21 2:56 |
| 19) | 19 | 0318_19.D | xxxxxxxxxx | | 03/19/21 3:32 |
| 20) | 20 | 0318_20.D | xxxxxxxxxx | | 03/19/21 4:06 |
| 21) | 21 | 0318_21.D | CANISTER BLK 2120 | CANISTER BLK 2120 | 03/19/21 4:41 |
| 22) | 22 | 0318_22.D | CANISTER BLK 2113 | CANISTER BLK 2113 | 03/19/21 9:19 |
| 23) | 23 | 0318_23.D | xxxxxxxxxx | | 03/19/21 9:50 |
| 24) | 24 | 0318_24.D | xxxxxxxxxx | | 03/19/21 10:28 |

# Injection Log

Data Directory: H:\AIR2021\CHEM24\04APR\05\

| Line | Vl | FileName | SampleName | MiscInfo | Injection Time |
|---|---|---|---|---|---|
| 1) | 1 | 0405_01.D | xxxxxxxxxx | | 04/05/21 7:42 |
| 2) | 2 | 0405_02.D | xxxxxxxxxx | | 04/05/21 8:15 |
| 3) | 1 | 0405_03.D | xxxxxxxxxx | | 04/05/21 10:54 |
| 4) | 2 | 0405_04.D | xxxxxxxxxx | | 04/05/21 11:27 |
| 5) | 3 | 0405_05.D | xxxxxxxxxx | | 04/05/21 11:59 |
| 6) | 4 | 0405_06.D | xxxxxxxxxx | | 04/05/21 12:36 |
| 7) | 5 | 0405_07.D | xxxxxxxxxx | | 04/05/21 13:06 |
| 8) | 6 | 0405_08.D | xxxxxxxxxx | | 04/05/21 13:36 |
| 9) | 7 | 0405_09.D | xxxxxxxxxx | | 04/05/21 15:24 |
| 10) | 8 | 0405_10.D | xxxxxxxxxx | | 04/05/21 16:01 |
| 11) | 9 | 0405_11.D | xxxxxxxxxx | | 04/05/21 16:32 |
| 12) | 10 | 0405_12.D | xxxxxxxxxx | | 04/05/21 17:04 |
| 13) | 11 | 0405_13.D | xxxxxxxxxx | | 04/05/21 17:36 |
| 14) | 12 | 0405_14.D | xxxxxxxxxx | | 04/05/21 18:38 |
| 15) | 13 | 0405_15.D | xxxxxxxxxx | | 04/05/21 19:14 |
| 16) | 14 | 0405_16.D | xxxxxxxxxx | | 04/05/21 19:47 |
| 17) | 15 | 0405_17.D | xxxxxxxxxx | | 04/05/21 20:18 |
| 18) | 16 | 0405_18.D | xxxxxxxxxx | | 04/05/21 20:50 |
| 19) | 17 | 0405_19.D | xxxxxxxxxx | | 04/05/21 21:47 |
| 20) | 18 | 0405_20.D | xxxxxxxxxx | | 04/05/21 22:17 |
| 21) | 19 | 0405_21.D | xxxxxxxxxx | | 04/05/21 22:53 |
| 22) | 20 | 0405_22.D | xxxxxxxxxx | | 04/05/21 23:29 |
| 23) | 21 | 0405_23.D | xxxxxxxxxx | | 04/06/21 0:22 |
| 24) | 22 | 0405_24.D | xxxxxxxxxx | | 04/06/21 1:02 |
| 25) | 23 | 0405_25.D | xxxxxxxxxx | | 04/06/21 1:38 |
| 26) | 24 | 0405_26.D | xxxxxxxxxx | | 04/06/21 2:10 |
| 27) | 25 | 0405_27.D | xxxxxxxxxx | | 04/06/21 2:51 |
| 28) | 26 | 0405_28.D | xxxxxxxxxx | | 04/06/21 3:21 |
| 29) | 27 | 0405_29.D | xxxxxxxxxx | | 04/06/21 3:52 |
| 30) | 28 | 0405_30.D | xxxxxxxxxx | | 04/06/21 4:29 |
| 31) | 29 | 0405_31.D | xxxxxxxxxx | | 04/06/21 9:15 |
| 32) | 30 | 0405_32.D | xxxxxxxxxx | | 04/06/21 9:51 |
| 33) | 31 | 0405_33.D | xxxxxxxxxx | | 04/06/21 10:27 |
| 34) | 32 | 0405_34.D | BFB TUNE - CCAL 1 | 1ppb cc - 1ppb cc | 04/06/21 10:58 |
| 35) | 33 | 0405_35.D | xxxxxxxxxx | | 04/06/21 11:29 |
| 36) | 34 | 0405_36.D | CH91147 LCS | CH91147 LCS | 04/06/21 12:04 |
| 37) | 35 | 0405_37.D | xxxxxxxxxx | | 04/06/21 12:33 |
| 38) | 36 | 0405_38.D | CH91147 BLANK | CH91147 BLANK | 04/06/21 13:03 |
| 39) | 37 | 0405_39.D | CH91147 QC | CH91147 QC | 04/06/21 13:39 |
| 40) | 38 | 0405_40.D | xxxxxxxxxx | | 04/06/21 14:29 |
| 41) | 39 | 0405_41.D | 91147 dup | CH91147 DUP | 04/06/21 15:05 |
| 42) | 40 | 0405_42.D | SS-12 (5') | CH92051 | 04/06/21 16:30 |
| 43) | 41 | 0405_43.D | SS-7 | CH92052 | 04/06/21 17:06 |
| 44) | 42 | 0405_44.D | SS-5 | CH92053 | 04/06/21 17:42 |
| 45) | 43 | 0405_45.D | SS-10 (5') | CH92054 | 04/06/21 18:20 |
| 46) | 44 | 0405_46.D | SS-6 | CH92056 | 04/06/21 18:56 |
| 47) | 45 | 0405_47.D | SS-4 | CH92057 | 04/06/21 19:32 |
| 48) | 46 | 0405_48.D | SS-11 (5') | CH92058 | 04/06/21 20:07 |
| 49) | 47 | 0405_49.D | SS-9 (5') | CH92059 | 04/06/21 20:43 |
| 50) | 48 | 0405_50.D | SS-1 | CH92060 | 04/06/21 21:22 |
| 51) | 49 | 0405_51.D | SS-8 (4') | CH92061 | 04/06/21 21:57 |
| 52) | 50 | 0405_52.D | SS-2 | CH92063 | 04/06/21 22:31 |
| 53) | 51 | 0405_53.D | SS-3 | CH92064 | 04/06/21 23:07 |
| 54) | 52 | 0405_54.D | IA-1 5X | CH92062 5X | 04/06/21 23:38 |
| 55) | 53 | 0405_55.D | xxxxxxxxxx | | 04/07/21 0:22 |
| 56) | 54 | 0405_56.D | xxxxxxxxxx | | 04/07/21 0:51 |
| 57) | 55 | 0405_57.D | xxxxxxxxxx | | 04/07/21 1:21 |
| 58) | 56 | 0405_58.D | xxxxxxxxxx | | 04/07/21 1:51 |
| 59) | 57 | 0405_59.D | xxxxxxxxxx | | 04/07/21 2:21 |
| 60) | 58 | 0405_60.D | xxxxxxxxxx | | 04/07/21 2:53 |
| 61) | 59 | 0405_61.D | xxxxxxxxxx | | 04/07/21 3:24 |
| 62) | 60 | 0405_62.D | xxxxxxxxxx | | 04/07/21 3:55 |
| 63) | 61 | 0405_63.D | xxxxxxxxxx | | 04/07/21 4:26 |
| 64) | 62 | 0405_64.D | xxxxxxxxxx | | 04/07/21 4:57 |
| 65) | 63 | 0405_65.D | xxxxxxxxxx | | 04/07/21 5:27 |
| 66) | 64 | 0405_66.D | xxxxxxxxxx | | 04/07/21 5:56 |
| 67) | 65 | 0405_67.D | xxxxxxxxxx | | 04/07/21 6:28 |
| 68) | 66 | 0405_68.D | xxxxxxxxxx | | 04/07/21 6:58 |

| | | | | |
|---|---|---|---|---|
| 69) | 67 | 0405_69.D | xxxxxxxxxx | 04/07/21 7:30 |
| 70) | 68 | 0405_70.D | xxxxxxxxxx | 04/07/21 8:00 |
| 71) | 69 | 0405_71.D | xxxxxxxxxx | 04/07/21 8:32 |
| 72) | 70 | 0405_72.D | xxxxxxxxxx | 04/07/21 9:03 |
| 73) | 71 | 0405_73.D | xxxxxxxxxx | 04/07/21 9:39 |
| 74) | 72 | 0405_74.D | xxxxxxxxxx | 04/07/21 10:11 |
| 75) | 1 | 0407_01.D | xxxxxxxxxx | 04/07/21 10:43 |
| 76) | 2 | 0407_02.D | xxxxxxxxxx | 04/07/21 11:16 |
| 77) | 3 | 0407_03.D | xxxxxxxxxx | 04/07/21 12:12 |
| 78) | 4 | 0407_04.D | xxxxxxxxxx | 04/07/21 12:48 |
| 79) | 5 | 0407_05.D | xxxxxxxxxx | 04/07/21 13:19 |
| 80) | 6 | 0407_06.D | xxxxxxxxxx | 04/07/21 13:49 |
| 81) | 7 | 0407_07.D | xxxxxxxxxx | 04/07/21 14:59 |
| 82) | 8 | 0407_08.D | xxxxxxxxxx | 04/07/21 15:35 |
| 83) | 9 | 0407_09.D | xxxxxxxxxx | 04/07/21 16:05 |
| 84) | 9 | 0407_10.D | xxxxxxxxxx | 04/07/21 16:40 |
| 85) | 10 | 0407_11.D | xxxxxxxxxx | 04/07/21 17:16 |
| 86) | 11 | 0407_12.D | xxxxxxxxxx | 04/07/21 17:52 |
| 87) | 12 | 0407_13.D | xxxxxxxxxx | 04/07/21 18:23 |
| 88) | 13 | 0407_14.D | xxxxxxxxxx | 04/07/21 18:54 |
| 89) | 14 | 0407_15.D | xxxxxxxxxx | 04/07/21 19:25 |
| 90) | 15 | 0407_16.D | xxxxxxxxxx | 04/07/21 19:57 |
| 91) | 16 | 0407_17.D | xxxxxxxxxx | 04/07/21 20:28 |
| 92) | 17 | 0407_18.D | xxxxxxxxxx | 04/07/21 21:04 |
| 93) | 18 | 0407_19.D | xxxxxxxxxx | 04/07/21 21:40 |
| 94) | 19 | 0407_20.D | xxxxxxxxxx | 04/07/21 22:15 |
| 95) | 20 | 0407_21.D | xxxxxxxxxx | 04/07/21 22:50 |
| 96) | 21 | 0407_22.D | xxxxxxxxxx | 04/07/21 23:26 |
| 97) | 22 | 0407_23.D | xxxxxxxxxx | 04/08/21 0:01 |
| 98) | 23 | 0407_24.D | xxxxxxxxxx | 04/08/21 0:36 |
| 99) | 24 | 0407_25.D | xxxxxxxxxx | 04/08/21 1:07 |
| 100) | 25 | 0407_26.D | xxxxxxxxxx | 04/08/21 1:38 |
| 101) | 26 | 0407_27.D | xxxxxxxxxx | 04/08/21 2:08 |
| 102) | 27 | 0407_28.D | xxxxxxxxxx | 04/08/21 2:50 |
| 103) | 28 | 0407_29.D | xxxxxxxxxx | 04/08/21 3:22 |
| 104) | 29 | 0407_30.D | xxxxxxxxxx | 04/08/21 4:04 |
| 105) | 30 | 0407_31.D | xxxxxxxxxx | 04/08/21 4:47 |
| 106) | 31 | 0407_32.D | xxxxxxxxxx | 04/08/21 7:07 |
| 107) | 32 | 0407_33.D | xxxxxxxxxx | 04/08/21 7:48 |
| 108) | 33 | 0407_34.D | xxxxxxxxxx | 04/08/21 8:29 |
| 109) | 34 | 0408_01.D | xxxxxxxxxx | 04/08/21 9:13 |
| 110) | 35 | 0408_02.D | xxxxxxxxxx | 04/08/21 9:46 |
| 111) | 36 | 0408_03.D | xxxxxxxxxx | 04/08/21 10:19 |

# APPENDIX D

# Data Usability Summary Report (DUSR)
# NYSDEC ASP Category B

| | |
|---|---|
| **Client:** | GC Environmental, Inc., Bay Shore, NY |
| **Site:** | 05-003-00 (101 Westmoreland Ave.) |
| **Laboratory:** | Phoenix Environmental Laboratories, Inc. Manchester, CT |
| **SDG#:** | GCH92051 |
| **Date(s) of Collection:** | March 30, 2021 and April 1, 2021-April 3, 2021 |
| **Number and type Samples & analyses:** | 1 Indoor Air, 1 Ambient Air, and 12 Subslab Soil Vapor samples for VOCs by Method TO-15 |
| **Senior Data Reviewers:** | Dr. Nancy C. Rothman, New Environmental Horizons, Inc.<br>Susan D. Chapnick, New Environmental Horizons, Inc. |
| **Date Completed:** | May 5, 2021 |

This Data Usability Summary Report (DUSR) is based on guidance developed by the New York State Department of Conservation (NYSDEC), June 1999, for technical review of analytical data. The objective of the DUSR is to determine whether or not the data as presented meet NYSDEC ASP 2005 or EPA method QC acceptance criteria.

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# I. Required DUSR Questions

1. ***Is the data package complete as defined under the requirements for the most current NYSDEC ASP Category B or USEPA CLP deliverables?***

   Yes.

2. ***Have all holding times been met?***

   Yes.

3. ***Do all the 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?***

   Yes. Some QC exceptions resulted in qualification of data as noted in the Data Validation Checklist (DV Checklist).

4. ***Have all of the data been generated using established and agreed upon analytical protocols?***

   Yes. Analytical data were generated using established EPA Methods (see analytical references in Section II below). Deviations from EPA and NYSDEC ASP 2005 QC protocols are discussed in the DV Checklist of this DUSR.

5. ***Does an evaluation of the raw data confirm the results provided in the data summary sheets and quality control verification forms?***

   Yes. The raw data were checked to verify that detected results met retention time and mass spectral criteria, where applicable, for qualitative identification. A spot check was performed to verify quantitative accuracy for reporting of all results (see the DV Checklist).

6. ***Have the correct data qualifiers been used and are they consistent with the most current NYSDEC ASP?***

   Yes. The laboratory used the correct data qualifiers in reporting of results. Data qualifiers were changed for some results during this review, as discussed in the DV Checklist and Table 2 of this DUSR.

7. ***Have any quality control (QC) exceedances been specifically noted in the DUSR and have the corresponding QC summary sheets from the data package been attached to the DUSR?***

   Yes. QC exceedances are specified in the DV Checklist. QC summary sheets from the data package have not been attached; however, all QC exceedances that required data qualifications are summarized in Table 2 of this DUSR and qualified in the validated electronic data deliverable (EDD).

## II. Sample Descriptions and Analytical Parameters

The sample IDs, date of sampling, identification of quality control (QC) samples, if applicable, and the analytical parameters reviewed in this DUSR are listed in Table 1.

Table 1. Sample Descriptions and Analytical Parameters

| Sample ID | Lab Sample ID | Collection Date | Matrix | Analytical Parameters | Sample Type |
|---|---|---|---|---|---|
| IA-1 | CH92062 | 3/30/2021 | Indoor Air | VOCs | Field Sample |
| OA-1 | CH92055 | 3/30/2021 | Outdoor Air | VOCs | Field Sample |
| SS-1 | CH92060 | 3/30/2021 | Subslab Soil Vapor | VOCs | Field Sample |
| SS-10 (5') | CH92054 | 4/2/2021 | Subslab Soil Vapor | VOCs | Field Sample |
| SS-11 (5') | CH92058 | 4/2/2021 | Subslab Soil Vapor | VOCs | Field Sample |
| SS-12 (5') | CH92051 | 4/1/2021 | Subslab Soil Vapor | VOCs | Field Sample |
| SS-2 | CH92063 | 3/30/2021 | Subslab Soil Vapor | VOCs | Field Sample |
| SS-3 | CH92064 | 3/30/2021 | Subslab Soil Vapor | VOCs | Field Sample |
| SS-4 | CH92057 | 3/30/2021 | Subslab Soil Vapor | VOCs | Field Sample |
| SS-5 | CH92053 | 3/30/2021 | Subslab Soil Vapor | VOCs | Field Sample |
| SS-6 | CH92056 | 3/30/2021 | Subslab Soil Vapor | VOCs | Field Sample |
| SS-7 | CH92052 | 3/30/2021 | Subslab Soil Vapor | VOCs | Field Duplicate of SS-4 |
| SS-8 (4') | CH92061 | 3/30/2021 | Subslab Soil Vapor | VOCs | Field Sample |
| SS-9 (5') | CH92059 | 4/2/2021 | Subslab Soil Vapor | VOCs | Field Blank |

Analytical method reference:

VOC: Method TO-15 operated in Full Scan and Selected Ion Monitoring (SIM) mode for the analysis of 66 VOCs

## III. Data Deficiencies, Analytical Protocol Deviations, and Quality Control Issues

The following QC elements, as applicable to the analytical method, were reviewed during this validation:

- Data package completeness and reporting protocols
- Sample receipt, holding times, and canister condition
- Calibration criteria (instrument tuning, initial and continuing calibration verifications)
- Method and field blank results
- Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD) Recoveries and Precision
- Internal Standard (IS) and Surrogate Recoveries
- Sample/Laboratory Duplicate (LD) or sample/Field Duplicate (FD) Relative Percent Differences (RPDs)
- Sample result reporting (including reporting limits and units)
- Other method-specific QC if applicable and reported
- Deficiencies or protocol deviations as noted in the Laboratory Narrative

During this review of the VOCs, several results were estimated (J, J-, J+, or UJ) due to QC issues. Table 2 (attached) summarizes the actions taken during this review. NEH generated a validated electronic data deliverable (EDD) based on the Phoenix EDD received at NEH. All results were considered usable for project decisions, with the understanding of the potential uncertainty (bias) in the qualified results.

Sensitivity for all results was considered acceptable since the non-detect values were supported by the instrument initial calibrations.

As required by the DUSR, the DV Checklist attached to this DUSR report documents the QC reviewed and the issues that required action or affected the data certainty in terms of the project data quality objectives (DQO) of accuracy, precision, representativeness, comparability, and sensitivity. The DQO for completeness can be evaluated by GC Environmental after all the data planned for this investigation have been collected.

DV Qualifiers:

U = analyte is non-detect at the sample-specific Reporting Limit
UJ = non-detect is usable as an estimated value
J = result is usable as an estimated value with indeterminate bias
J+ = result is usable as an estimated value with possible high bias
J- = result is usable as an estimated value with possible low bias
R = result is rejected due to severe QC exceedance and unusable for project objectives

**Table 2. Summary of Data Validation Actions**
**GC Environmental: 05-003-00 (101 Westmoreland Ave)**

| SDG Number | Field Sample ID | Analytical Method | Analyte | DV Qualifier | DV Comment |
|---|---|---|---|---|---|
| GCH92051 | IA-1_20210330 | TO15 | Isopropylalcohol | J+ | Bias High: High LCS recovery |
| GCH92051 | IA-1_20210330 | TO15 | Ethanol | J+ | Bias High: High LCS recovery |
| GCH92051 | OA-1_20210330 | TO15 | Ethanol | J+ | Bias High: High LCS recovery |
| GCH92051 | OA-1_20210330 | TO15 | Isopropylalcohol | J+ | Bias High: High LCS recovery |
| GCH92051 | OA-1_20210330 | TO15 | Acetone | J+ | Bias High: High Calibration verification |
| GCH92051 | SS-1_20210330 | TO15 | Ethanol | J+ | Bias High: High LCS recovery |
| GCH92051 | SS-10 (5')_20210402 | TO15 | Ethanol | J+ | Bias High: High LCS recovery |
| GCH92051 | SS-11 (5')_20210402 | TO15 | Ethanol | J+ | Bias High: High LCS recovery |
| GCH92051 | SS-12 (5')_20210401 | TO15 | Ethanol | J+ | Bias High: High LCS recovery |
| GCH92051 | SS-2_20210330 | TO15 | Ethanol | J+ | Bias High: High LCS recovery |
| GCH92051 | SS-2_20210330 | TO15 | Acetone | J+ | Bias High: High Calibration verification |
| GCH92051 | SS-3_20210330 | TO15 | Ethanol | J | Bias Indeterminate: High LCS recovery + Result uncertain above the calibration range |
| GCH92051 | SS-3_20210330 | TO15 | Acetone | J+ | Bias High: High Calibration verification |
| GCH92051 | SS-4_20210330 | TO15 | Ethanol | J | Bias Indeterminate: High LCS recovery + FD imprecision |
| GCH92051 | SS-4_20210330 | TO15 | Toluene | J | Bias Indeterminate: FD imprecision |
| GCH92051 | SS-4_20210330 | TO15 | Hexane | J | Bias Indeterminate: FD imprecision |
| GCH92051 | SS-4_20210330 | TO15 | Cyclohexane | J | Bias Indeterminate: FD imprecision |
| GCH92051 | SS-4_20210330 | TO15 | Heptane | J | Bias Indeterminate: FD imprecision |
| GCH92051 | SS-4_20210330 | TO15 | Isopropylalcohol | J | Bias Indeterminate: FD imprecision |
| GCH92051 | SS-4_20210330 | TO15 | Acetone | J | Bias Indeterminate: FD imprecision |
| GCH92051 | SS-4_20210330 | TO15 | Carbon Disulfide | J | Bias Indeterminate: FD imprecision |
| GCH92051 | SS-5_20210330 | TO15 | Ethanol | J | Bias Indeterminate: High LCS recovery + Result uncertain above the calibration range |
| GCH92051 | SS-6_20210330 | TO15 | Ethanol | J | Bias Indeterminate: High LCS recovery + Result uncertain above the calibration range |
| GCH92051 | SS-6_20210330 | TO15 | Acetone | J+ | Bias High: High Calibration verification |
| GCH92051 | SS-7_20210330 | TO15 | Ethanol | J | Bias Indeterminate: High LCS recovery + FD imprecision |
| GCH92051 | SS-7_20210330 | TO15 | Toluene | J | Bias Indeterminate: FD imprecision |
| GCH92051 | SS-7_20210330 | TO15 | Hexane | J | Bias Indeterminate: FD imprecision |
| GCH92051 | SS-7_20210330 | TO15 | Cyclohexane | J | Bias Indeterminate: FD imprecision |
| GCH92051 | SS-7_20210330 | TO15 | Heptane | J | Bias Indeterminate: FD imprecision |
| GCH92051 | SS-7_20210330 | TO15 | Isopropylalcohol | J | Bias Indeterminate: FD imprecision |
| GCH92051 | SS-7_20210330 | TO15 | Acetone | J | Bias Indeterminate: FD imprecision |
| GCH92051 | SS-7_20210330 | TO15 | Carbon Disulfide | J | Bias Indeterminate: FD imprecision |
| GCH92051 | SS-8 (4')_20210330 | TO15 | Ethanol | J+ | Bias High: High LCS recovery |
| GCH92051 | SS-9 (5')_20210402 | TO15 | Ethylbenzene | J- | Bias Low: Field final and Lab receipt vacuums disagree |
| GCH92051 | SS-9 (5')_20210402 | TO15 | Styrene | J- | Bias Low: Field final and Lab receipt vacuums disagree |
| GCH92051 | SS-9 (5')_20210402 | TO15 | Benzyl chloride | UJ | Bias Low: Field final and Lab receipt vacuums disagree |
| GCH92051 | SS-9 (5')_20210402 | TO15 | cis-1,3-Dichloropropene | UJ | Bias Low: Field final and Lab receipt vacuums disagree |
| GCH92051 | SS-9 (5')_20210402 | TO15 | trans-1,3-Dichloropropene | UJ | Bias Low: Field final and Lab receipt vacuums disagree |
| GCH92051 | SS-9 (5')_20210402 | TO15 | n-Butylbenzene | UJ | Bias Low: Field final and Lab receipt vacuums disagree |
| GCH92051 | SS-9 (5')_20210402 | TO15 | 1,4-Dichlorobenzene | UJ | Bias Low: Field final and Lab receipt vacuums disagree |
| GCH92051 | SS-9 (5')_20210402 | TO15 | 1,2-Dibromoethane(EDB) | UJ | Bias Low: Field final and Lab receipt vacuums disagree |
| GCH92051 | SS-9 (5')_20210402 | TO15 | 1,3-Butadiene | UJ | Bias Low: Field final and Lab receipt vacuums disagree |
| GCH92051 | SS-9 (5')_20210402 | TO15 | 1,2-Dichloroethane | UJ | Bias Low: Field final and Lab receipt vacuums disagree |
| GCH92051 | SS-9 (5')_20210402 | TO15 | Acrylonitrile | UJ | Bias Low: Field final and Lab receipt vacuums disagree |
| GCH92051 | SS-9 (5')_20210402 | TO15 | 4-Methyl-2-pentanone(MIBK) | UJ | Bias Low: Field final and Lab receipt vacuums disagree |
| GCH92051 | SS-9 (5')_20210402 | TO15 | 1,3,5-Trimethylbenzene | UJ | Bias Low: Field final and Lab receipt vacuums disagree |
| GCH92051 | SS-9 (5')_20210402 | TO15 | Toluene | J- | Bias Low: Field final and Lab receipt vacuums disagree |
| GCH92051 | SS-9 (5')_20210402 | TO15 | Chlorobenzene | UJ | Bias Low: Field final and Lab receipt vacuums disagree |
| GCH92051 | SS-9 (5')_20210402 | TO15 | Tetrahydrofuran | J- | Bias Low: Field final and Lab receipt vacuums disagree |
| GCH92051 | SS-9 (5')_20210402 | TO15 | Hexane | UJ | Bias Low: Field final and Lab receipt vacuums disagree |
| GCH92051 | SS-9 (5')_20210402 | TO15 | Cyclohexane | UJ | Bias Low: Field final and Lab receipt vacuums disagree |
| GCH92051 | SS-9 (5')_20210402 | TO15 | Propylene | UJ | Bias Low: Field final and Lab receipt vacuums disagree |
| GCH92051 | SS-9 (5')_20210402 | TO15 | 1,2,4-Trichlorobenzene | UJ | Bias Low: Field final and Lab receipt vacuums disagree |

**Table 2. Summary of Data Validation Actions**
**GC Environmental: 05-003-00 (101 Westmoreland Ave)**

| SDG Number | Field Sample ID | Analytical Method | Analyte | DV Qualifier | DV Comment |
|---|---|---|---|---|---|
| GCH92051 | SS-9 (5')_20210402 | TO15 | 1,4-Dioxane | UJ | Bias Low: Field final and Lab receipt vacuums disagree |
| GCH92051 | SS-9 (5')_20210402 | TO15 | Dibromochloromethane | UJ | Bias Low: Field final and Lab receipt vacuums disagree |
| GCH92051 | SS-9 (5')_20210402 | TO15 | Tetrachloroethene | J- | Bias Low: Field final and Lab receipt vacuums disagree |
| GCH92051 | SS-9 (5')_20210402 | TO15 | sec-Butylbenzene | UJ | Bias Low: Field final and Lab receipt vacuums disagree |
| GCH92051 | SS-9 (5')_20210402 | TO15 | Ethyl acetate | UJ | Bias Low: Field final and Lab receipt vacuums disagree |
| GCH92051 | SS-9 (5')_20210402 | TO15 | Heptane | J- | Bias Low: Field final and Lab receipt vacuums disagree |
| GCH92051 | SS-9 (5')_20210402 | TO15 | Cis-1,2-Dichloroethene | UJ | Bias Low: Field final and Lab receipt vacuums disagree |
| GCH92051 | SS-9 (5')_20210402 | TO15 | Trans-1,2-Dichloroethene | UJ | Bias Low: Field final and Lab receipt vacuums disagree |
| GCH92051 | SS-9 (5')_20210402 | TO15 | Methyl tert-butyl ether(MTBE) | UJ | Bias Low: Field final and Lab receipt vacuums disagree |
| GCH92051 | SS-9 (5')_20210402 | TO15 | m,p-Xylene | J- | Bias Low: Field final and Lab receipt vacuums disagree |
| GCH92051 | SS-9 (5')_20210402 | TO15 | 1,3-Dichlorobenzene | UJ | Bias Low: Field final and Lab receipt vacuums disagree |
| GCH92051 | SS-9 (5')_20210402 | TO15 | Carbon Tetrachloride | J- | Bias Low: Field final and Lab receipt vacuums disagree |
| GCH92051 | SS-9 (5')_20210402 | TO15 | 2-Hexanone(MBK) | UJ | Bias Low: Field final and Lab receipt vacuums disagree |
| GCH92051 | SS-9 (5')_20210402 | TO15 | 4-Ethyltoluene | J- | Bias Low: Field final and Lab receipt vacuums disagree |
| GCH92051 | SS-9 (5')_20210402 | TO15 | 1,1,1,2-Tetrachloroethane | UJ | Bias Low: Field final and Lab receipt vacuums disagree |
| GCH92051 | SS-9 (5')_20210402 | TO15 | Ethanol | J | Bias Indeterminate: Field final and Lab receipt vacuums disagree + High LCS recovery |
| GCH92051 | SS-9 (5')_20210402 | TO15 | Isopropylalcohol | J- | Bias Low: Field final and Lab receipt vacuums disagree |
| GCH92051 | SS-9 (5')_20210402 | TO15 | Acetone | J- | Bias Low: Field final and Lab receipt vacuums disagree |
| GCH92051 | SS-9 (5')_20210402 | TO15 | Chloroform | UJ | Bias Low: Field final and Lab receipt vacuums disagree |
| GCH92051 | SS-9 (5')_20210402 | TO15 | Benzene | UJ | Bias Low: Field final and Lab receipt vacuums disagree |
| GCH92051 | SS-9 (5')_20210402 | TO15 | 1,1,1-Trichloroethane | UJ | Bias Low: Field final and Lab receipt vacuums disagree |
| GCH92051 | SS-9 (5')_20210402 | TO15 | Bromomethane | UJ | Bias Low: Field final and Lab receipt vacuums disagree |
| GCH92051 | SS-9 (5')_20210402 | TO15 | Chloromethane | J- | Bias Low: Field final and Lab receipt vacuums disagree |
| GCH92051 | SS-9 (5')_20210402 | TO15 | Chloroethane | UJ | Bias Low: Field final and Lab receipt vacuums disagree |
| GCH92051 | SS-9 (5')_20210402 | TO15 | Vinyl Chloride | UJ | Bias Low: Field final and Lab receipt vacuums disagree |
| GCH92051 | SS-9 (5')_20210402 | TO15 | Methylene Chloride | UJ | Bias Low: Field final and Lab receipt vacuums disagree |
| GCH92051 | SS-9 (5')_20210402 | TO15 | Carbon Disulfide | UJ | Bias Low: Field final and Lab receipt vacuums disagree |
| GCH92051 | SS-9 (5')_20210402 | TO15 | Bromoform | UJ | Bias Low: Field final and Lab receipt vacuums disagree |
| GCH92051 | SS-9 (5')_20210402 | TO15 | Bromodichloromethane | UJ | Bias Low: Field final and Lab receipt vacuums disagree |
| GCH92051 | SS-9 (5')_20210402 | TO15 | 1,1-Dichloroethane | UJ | Bias Low: Field final and Lab receipt vacuums disagree |
| GCH92051 | SS-9 (5')_20210402 | TO15 | 1,1-Dichloroethene | UJ | Bias Low: Field final and Lab receipt vacuums disagree |
| GCH92051 | SS-9 (5')_20210402 | TO15 | Trichlorofluoromethane | J- | Bias Low: Field final and Lab receipt vacuums disagree |
| GCH92051 | SS-9 (5')_20210402 | TO15 | Dichlorodifluoromethane | J- | Bias Low: Field final and Lab receipt vacuums disagree |
| GCH92051 | SS-9 (5')_20210402 | TO15 | Trichlorotrifluoroethane | UJ | Bias Low: Field final and Lab receipt vacuums disagree |
| GCH92051 | SS-9 (5')_20210402 | TO15 | 1,2-Dichlorotetrafluoroethane | UJ | Bias Low: Field final and Lab receipt vacuums disagree |
| GCH92051 | SS-9 (5')_20210402 | TO15 | 1,2-dichloropropane | UJ | Bias Low: Field final and Lab receipt vacuums disagree |
| GCH92051 | SS-9 (5')_20210402 | TO15 | Methyl Ethyl Ketone | J- | Bias Low: Field final and Lab receipt vacuums disagree |
| GCH92051 | SS-9 (5')_20210402 | TO15 | 1,1,2-Trichloroethane | UJ | Bias Low: Field final and Lab receipt vacuums disagree |
| GCH92051 | SS-9 (5')_20210402 | TO15 | Trichloroethene | UJ | Bias Low: Field final and Lab receipt vacuums disagree |
| GCH92051 | SS-9 (5')_20210402 | TO15 | 1,1,2,2-Tetrachloroethane | UJ | Bias Low: Field final and Lab receipt vacuums disagree |
| GCH92051 | SS-9 (5')_20210402 | TO15 | Hexachlorobutadiene | UJ | Bias Low: Field final and Lab receipt vacuums disagree |
| GCH92051 | SS-9 (5')_20210402 | TO15 | o-Xylene | J- | Bias Low: Field final and Lab receipt vacuums disagree |
| GCH92051 | SS-9 (5')_20210402 | TO15 | 1,2-Dichlorobenzene | UJ | Bias Low: Field final and Lab receipt vacuums disagree |
| GCH92051 | SS-9 (5')_20210402 | TO15 | 1,2,4-Trimethylbenzene | UJ | Bias Low: Field final and Lab receipt vacuums disagree |
| GCH92051 | SS-9 (5')_20210402 | TO15 | Isopropylbenzene | UJ | Bias Low: Field final and Lab receipt vacuums disagree |
| GCH92051 | SS-9 (5')_20210402 | TO15 | 4-Isopropyltoluene | UJ | Bias Low: Field final and Lab receipt vacuums disagree |

Date Sampled: 3/30/2021, 4/1/2021 & 4/2/2021 No. Samples 1 IA + 1 AA + 12 SV
Method of Analysis: TO-15 SIM

| Data Element Acceptable | Canister Receipt | HT | Internal Stds + Surrogates | LCS | Lab Dup (LCS and LD) | GC/MS Tunes + Calibrations | Field Duplicates | RL & Quant. |
|---|---|---|---|---|---|---|---|---|
| **Yes** | | √ | √ | | √ | | | |
| **No** | Estimate (J- or UJ) all results in 1 sample | | | Estimate (J or J+) 16 results | | Estimate (J+) 4 results | Estimate (J) 16 results | 3 "E" lab-qualified results accepted as "J" data |

***Other Issues*** : None

*Data usability review was performed on Quality Control forms associated with this data package, which involved evaluation of the following (where applicable): agreement of analyses conducted with COC requests; Holding times and sample preservation; Laboratory blanks/equipment blanks/ field blanks results compared to field sample results; Field duplicate results; Quantitation limits and sample results; Surrogate and Internal Standard recoveries; LCS/LCSD results; Laboratory duplicate results; instrument tuning and calibration information; sample chromatograms; and laboratory qualifiers applied to the dataset. The project narrative was also reviewed to determine whether additional issues were found that were not reported in the QC previously evaluated. This review is consistent with the requirements set forth in NYSDEC Technical Guidance for Site Investigation and Remediation, DER-10, Appendix 2B (May 2010).*

***Data Package Completeness:*** All required forms (results, summary QC, COC), as needed to validate the data in accordance with NYSDEC ASP and the Work Plan were present in the data package. The laboratory provided the equivalent of the Category B deliverable. The lab included a "Canister Sampling Information" table, which isn't required; however, this table is missing information for sample SS-12 (5') [lab ID CH92051].

***Sample receipt:*** The 14 6-L canisters plus 2 unused 6-L canisters were received intact and in good condition on 4/5/2021. After receipt, the client asked the lab to amend the sample IDs from what appeared on the COC as follows: Sample IDs SS-8 (Deep), SS-9, SS-10, SS-11, and SS-12, which appeared on the COC, were reported by Phoenix at the clients request as SS-8 (4'), SS-9 (5'), SS-10 (5'), SS-11 (5') and SS-12 (5'), respectively. The COC listed sample "SS-7 (SS-4A)" but the lab reported the result for this sample as "SS-7." The Canister field final vacuum was missing on the COC for samples SS-10 and SS-11; however, Fulya Toylular of GC Env. indicated the final vacuums for these samples was 4 "Hg, which makes sense compared to the field final and lab receipt vacuums of the other samples, which are all fully documented on the COC.

Date: ***5/5/2021***
Data Reviewer: ***Nancy C. Rothman, Ph.D.***

***Certification:*** Canisters were Batch Certified pre-cleaned in 3 QC Batches: Batch #2113 (Canister 755 certified on 3/19/21 and cleaning batch also contained canisters 479 and 484); Batch #2118 (Canister 785 certified on 3/18/21 and cleaning batch also contained canisters 13633, 13651, 18111, 19732, 23345, 28582, 367, 469, and 470); and Batch #2120 (Canister 711 certified on 3/19/21 and cleaning batch also contained canisters 12864, 28567, and 28603). Canister BLK 2113, Canister BLK 2118, and Canister BLK 2120 were non-detect for all 66 VOCs reported. The Batch record was checked against the COC and the canisters used by GC Environmental were contained in these 3 batches so Batch certification acceptable - no action required

***Sample Integrity:*** The canisters were at 30 "Hg leaving the laboratory and the field receipt vacuums were 28 - 30 "Hg. All samples except for SS-12 were collected for 2 hours. Sample SS-12 was collected for 2 hours and 20 minutes. The field final vacuums ranged form 4 to 10 "Hg but the field final vacuums for samples SS-10 and SS-11 were not recorded on the COC; however, e-mail communication with Fulya Toylular (GC Environmental) indicated these two canisters had field final vacuums of 4 "Hg, The lab receipt vacuums ranged from 0 "Hg (i.e., no vacuum) to 8"Hg. Flow controllers all reported acceptable calibrations (i.e., RPD < 20% for pre- and post-calibration). All Field final and lab receipt vacuums were within ± 5 "Hg of each other except for sample SS-9 (5'), which had field final vacuum of 8 "Hg with lab receipt vacuum of 2 "Hg. The loss of vacuum in this sample may be an indication of a slow leak in the canister during transit from the field to the lab. All data for this sample are considered uncertain. Tracer gas (Helium) was used during collection of the Soil Vapor samples (verified by e-mail communication with GC Environmental). The canisters were analyzed as received (they were not over-pressurized with zero-grade air)
****ACTION: All results for SS-9 (5') estimated (J- or UJ) with possible low bias, unless other issues affect the data, due to the field final and lab receipt vacuums being in disagreement.***

***Holding Time (HT):*** Samples were analyzed by 4/6/2021; therefore HT was met. No Action required.

***Blank Evaluation:*** Method Blanks = CH91177 BLANK for all analyses on 4/5/2021 and CH91147 BLANK for all analyses on 4/6/2021. Equipment Blank = none. Both Method Blanks were non-detect for all 66 target VOCs; therefore, blank action to negate or estimate sample data was not required.

***Surrogates & Internal Standards*** **:** Surrogate Bromofluorobenzene (BFB) and 3 IS' (Bromochloromethane, 1,4-Difluorobenzene, and Chlorobenzene-d5). Surrogate recovery and all IS areas and RTs were within criteria in all analyses; therefore, No Action Required.

***LCS/LCSD*** : CH911767 LCS (associated with 4/5/2021 analyses) and CH91147 LCS (associated wit 4/6/2021 analyses). Lab spiked all 66 target compounds and used 70-130% recovery as acceptance criteria. No LCSD performed since DUP performed. All %Rec acceptable in these LCS except: Isopropylalcohol %Rec high in CH911767 LCS; and Ethanol %Rec high in both LCS. High LCS results only affect detected results.
****ACTION: Isopropylalcohol estimated (J+) in samples IA-1 and OA-1 and Ethanol estimated (J+) in all samples with possible high bias, unless other issues affect the data, due to high LCS recovery (Note several high bias (J+) results changed to indeterminate bias (J) due to cumulative bias)***

***LD:*** lab performed DUP analysis for each QC Batch (CH91177 and CH91147); however, the sample/dup (called QC/DUP) were not samples collected from this site but were rather batch QC (the canister IDs for the QC/DUP samples are not canisters appearing on the COC). Since the QC/DUP results will not impact the samples reported in this SDG, no further review made of these samples. However, the lab was method compliant in performing the LD analysis.

***BFB Tunes:*** Instruments CHEM20 3/26/21 (ICAL) & 4/5/21 (CH91177 Batch) and CHEM24 3/10/21 (ICAL) & 4/6/21. It was verified that Method TO-15 tune criteria was used and all criteria in all tunes were met. The samples were not all analyzed within 12 hours of tune, as required by NYSDEC; however, the samples were analyzed within 24 hours of the tune, which is compliant with Method TO-15. No action taken based on professional judgment since Method TO-15 tuning criteria met.

***ICALs:*** Instruments CHEM20 and CHEM24 Full Scan and SIM ICALs performed (split GC column systems with a full scan detector at the end of one column and SIM detector on the end of the other GC Column allowing full scan and SIM analysis to be done at the same time). Full Scan = 6- to 9-level calibration from 0.1, 0.2, or 0.5 to 40 ppbV for all 66 Target compounds plus surrogate and SIM = 7- to 9-level calibration from 0.02 to 2.5, 5, or 10 ppbV for 32 of the Target compounds . All %RSD ≤ 30% for all 66 Target Compounds by both detection methods on both GC/MS Instruments.

***CCALs:*** CHEM20 on 4/5/2021 and CHEM24 on 4/6/2021. 4/6/16 & 4/7/16 - %D ≤ ± 30% for all target compounds except: Acetone %D = -31.5% in CHEM20 Full Scan CCV. Criteria used by lab for 1,2,4-trichlorobenzene is %D ≤ ± 20% and using this criteria, 1,2,4-Trichlorobenzene was outside criteria (%D = + 30%) in Full Scan but was within criteria in the SIM analysis in CHEM24 CCV. The convention used by Phoenix is that a negated %D indicates increased sensitivity during the CCV and a positive CCV is a loss in sensitivity during the CCV as compared to the compound sensitivity during the ICAL. Acetone is only calibrated by Full Scan analysis while 1,2,4-Trichlorobenzene was calibrated by Full Scan and SIM. For all samples, 1,2,4-Trichlorobenzene was reported from the SIM analysis, which met calibration criteria so no action for the fact that the full scan didn't met criteria for this compound. Instrument CHEM20 is associated with the DF=1 analysis of IA-1 and OA-1 and DF=5 analysis of 7 soil vapor samples so only detected Acetone results for these particular analyses may be biased high due to high calibration verification.
****ACTION: Acetone estimated (J+) in samples OA-1, SS-2, SS-3, and SS-6 due to high Calibration verification***

***Compound Reporting:*** the lab reported results for 66 Target VOCs, which represents their standard TO-15 list. This list included all 52 compounds that are on "Table 1C. Target Compound List for Use with Division of Environmental Remediation TO-15 Analysis" except 2,2,4-Trimethylpentane and t-Butyl Alcohol, which weren't reported, and included 1,1,2,2-Tetrachloroethane, 1,3-Butadiene, 2-Hexanone(MBK), 4-Ethyltoluene, 4-Isopropyltoluene, Acetone, Acrylonitrile, Carbon Disulfide, Ethyl acetate, Heptane, Isopropylalcohol, Isopropylbenzene, n-Butylbenzene, Propylene, sec-Butylbenzene, and Tetrahydrofuran, which aren't on Table 1C (NYSDEC Modifications to EPA Region 9 TO-15 QA/QC Criteria, February 2008). The Form 1s in the hardcopy report all results in ppbV but the Analytical Report, also within the hardcopy report, report all data in ppbV and in $\mu g/m^3$ while the EDD only reports data in units of $\mu g/m^3$.

***Qualifier Action:*** There were no "J" results reported (result < RL); however, there were 3 "E" qualified results for ethanol indicating the data were reported at a level above the instrument calibration range. These "E" data were accepted as estimated (J) results due to uncertainty in the quantitation above the calibration range. There were no other qualifiers (except "U") reported on the data. The hardcopy Form 1's also added some "S" qualifiers (these do not appear on the Analytical Reports or in the EDD) to identify "Solvents" such as Isopropanol, Acetone, Hexane, and Ethanol. Dilution of the samples (analyzing a smaller than normal aliquot of sample) to bring these solvents within the calibration range is not normally performed (which is why some Ethanol results have "E" qualifiers) since such dilutions may cause other compounds of interest to be non-detect at higher then required RLs.
****ACTION: 3 "E" lab-qualified results accepted as estimated (J) data with indeterminate bias***

Date: ***5/5/2021***
Data Reviewer: ***Nancy C. Rothman, Ph.D.***

***Sensitivity:*** All reporting limits for Methylene Chloride, Trichloroethene, and Tetrachloroethene (called Tetrachloroethylene by the lab) were at a level below the NYSDOH Air Guideline Values shown in the table on the last page of this checklist. The data user will need to evaluate the applicability of the May 2017 NYSDOH Soil Vapor/Indoor Air Matrices for these samples. RLs are not based on the lowest concentration standard for ICALs, rather, lab reported all RLs for DF=1 analyses at 1 µg/m3 for all compounds except Tetrachloroethene, cis-1,2-Dichloroethene, Carbon Tetrachloride, Vinyl Chloride and Trichloroethene, which were reported with RL = 0.25 µg/m3 . For all compounds, these fixed RLs were supported by the instrument calibration range (e.g., either by full scan or SIM). Note, the "method_detection_limit" in the EDD is the same as the "reporting_detection_limit" or RL and all concentrations ("result_value" and "reporting_detection_limit" in the EDD) are in units of µg/m3

***Calculation check:*** SS-7; Tetrachloroethene

DF=5 analyzed. Normal DF=1 purge volume = 200 mL so DF=5 indicates only 40 mL of sample purged with 160 mL of air;
MWt = 165.85

Sample Response = 315995; IS Response (1,4-Difluorobenzene) = 538432@ 10; RRF ICAL (CEM20 Full Scan) = 0.479

$$\text{Conc.} = \frac{315995 \times 10 \times 5}{538432 \times 0.479} = 61.26 \text{ ppbV}$$

$\mu g/m^3$ = (ppbv x Mwt x DF) / 24.45 = (61.26 x 165.85 x 1)/24.45 = 415 $\mu g/m^3$ √

The sample chromatograms, mass spectra of detects and quantitation reports were scanned and data appeared to have been reported correctly. The laboratory did not report Tentatively Identified Compounds (TICs) as these were not requested; however, some samples of interest did appear to contained extra peaks.

***Narrative:*** The narrative did not mention any issues that were not already addressed in this review.

***Field Duplicates (FD):*** GC Environmental identified FD pair as SS-4 and SS-7. A comparison of detected results in this FD pair is shown below:

| Field Duplicate Evaluation_ Sample IDs: | | Sample = SS-4 | | | | FD = SS-7 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Analyte Name** | DF=1 & 5 RL (µg/m$^3$) | Sample µg/m$^3$ | Q | Sample Result Level | FD µg/m$^3$ | Q | FD Result Level | RPD | | Action * |
| 1,1,1-Trichloroethane | 1 | 145 | | > 5 x RL | 137 | | > 5 x RL | 5.7% | | None |
| 1,2,4-Trimethylbenzene | 1 | 1.14 | | < 5 x RL | 1.11 | | < 5 x RL | 2.7% | | None |
| 4-Ethyltoluene | 1 | 1.3 | | < 5 x RL | 1.33 | | < 5 x RL | 2.3% | | None |
| Acetone | 1 | 71.9 | | > 5 x RL | 51.8 | | > 5 x RL | 32.5% | | **J Both** |
| Benzene | 1 | 1.3 | | < 5 x RL | 2.02 | | < 5 x RL | 43.4% | | None * |
| Carbon Disulfide | 1 | 11.1 | | > 5 x RL | 17.6 | | > 5 x RL | 45.3% | | **J Both** |
| Carbon Tetrachloride | 0.2 | 0.35 | | < 5 x RL | 0.39 | | < 5 x RL | 10.8% | | None |
| Cyclohexane | 1 | 11.4 | | > 5 x RL | 5.99 | | > 5 x RL | 62.2% | | **J Both** |
| Dichlorodifluoromethane | 1 | 2.19 | | < 5 x RL | 2.08 | | < 5 x RL | 5.2% | | None |
| Ethanol | 5.01 | 331 | J+ | > 5 x RL | 250 | J+ | > 5 x RL | 27.9% | | **J Both** |
| Ethylbenzene | 1 | 2.25 | | < 5 x RL | 2.96 | | < 5 x RL | 27.3% | | None * |
| Heptane | 1 | 25.7 | | > 5 x RL | 10.4 | | > 5 x RL | 84.8% | | **J Both** |
| Hexane | 1 | 12.9 | | > 5 x RL | 7.05 | | > 5 x RL | 58.6% | | **J Both** |
| Isopropylalcohol | 1 | 27 | | > 5 x RL | 12.8 | | > 5 x RL | 71.4% | | **J Both** |
| m,p-Xylene | 1 | 4.82 | | < 5 x RL | 7.77 | | < 5 x RL | 46.9% | | None * |
| Methyl Ethyl Ketone | 1 | 2.84 | | < 5 x RL | 2.69 | | < 5 x RL | 5.4% | | None |
| o-Xylene | 1 | 1.99 | | < 5 x RL | 3.03 | | < 5 x RL | 41.4% | | None * |
| Styrene | 1 | 1.21 | | < 5 x RL | 1 | U | < 5 x RL | 19.0% | | None |
| Tetrachloroethene | 1.25 | 368 | | > 5 x RL | 415 | | > 5 x RL | 12.0% | | None |
| Toluene | 1 | 12.7 | | > 5 x RL | 20.7 | | > 5 x RL | 47.9% | | **J Both** |
| Trichloroethene | 0.2 | 0.7 | | < 5 x RL | 0.84 | | < 5 x RL | 18.2% | | None |
| Trichlorofluoromethane | 1 | 1.09 | | < 5 x RL | 1.3 | | < 5 x RL | 17.6% | | None |

Q = Validation Qualifier; NC = Not Calculated

*Action only taken for RPD > 20% if one or both results are > 5 x RL

FD precision was acceptable for all VOCs in FD pair SS-4 and SS-7 except for Acetone, Carbon Disulfide, Cyclohexane, Ethanol, Heptane, Hexane, Isopropylalcohol, and Toluene, which reported RPD > 20% for values > 5 x RL for one or both samples.

***ACTION: Acetone, Carbon Disulfide, Cyclohexane, Ethanol, Heptane, Hexane, Isopropylalcohol, and Toluene estimated (J) in samples SS-4 and SS-7 with indeterminate bias due to FD imprecision***

Date: ***5/5/2021***

Data Reviewer: ***Nancy C. Rothman, Ph.D.***

## *Sensitivity Requirements and Actions*

| Target Analyte Name | | NYSDOH Air Guideline Value ($\mu g/m^3$) |
|---|---|---|
| Methylene Chloride | | 60 |
| Trichloroethene (TCE) | | 2 |
| Tetrachloroethene (PCE) | | 30 |

| | |
|---|---|
| ***Canister Integrity:*** | If certification forms indicate issues, J/U or UJ results in samples; if Flow controller RPD > 20% for pre- and post-flow calibrations, J detect/UJ non-detects |
| ***Canister Vacuum (Vac):*** | Initial Field Vac < 25" Hg, J/UJ all results; Lab Receipt Vac > 15" Hg, J/UJ results; Lab Receipt Vac > ± 5" Hg of Final Field Vac, J/UJ results |
| ***Hold Time (HT):*** | HT > 30 days, J detects/ UJ non-detects |
| ***Blank Actions:*** | Action Level = 5 x Level in Blank; Sample-specific Blank Action Level = Action Level x (Sample DF/Blank DF) |
| | Method Blank (MB): Result < RL, U result at RL; RL<Result<Blank Action, U result at level reported |
| | Equipment Blank (EB): Result<Blank Action, EB result at level reported |
| ***BFB Tune:*** | SW-846 method 8260B or TO-15 tune criteria not met, professional judgment on R of all data; NYSDEC February 2008 requirements are for 12 hr tune window but TO-15 is a 24 hr tune window |
| ***LCS and CCV:*** | %D > ± 30% or Percent Recovery (%Rec) <10%, J detects, R non-detects; 10% < %Rec <70%; J/UJ all associated data; %Rec >130%, J detects - no action for non-detects |
| ***Initial Calibration (ICAL):*** | %RSD > 30%, J/UJ associated results |
| ***Internal Standard (IS):*** | RT > ±0.33 min of IS RT in daily CCV, J/UJ associated results; |
| | Area < 25% Area in CCV, J detects, R non-detects (or professional judgment); 25%< Area < 60% of CCV Area, J/UJ associated results; Area > 140% of CCV Area, J detects, no action for non-detects |
| ***Surrogates:*** | %Rec <10%, J detects, R non-detects; 10% < %Rec <70%; J/UJ all associated data; %Rec >130%, J detects - no action for non-detects |
| ***Laboratory Duplicates:*** | LCS/LCSD RPD or Sample/LD RPD > 25% for detects > 5x RL, J associated data; professional judgment for results < 5 x RL |
| ***Field Duplicates:*** | RPD > 20% for detects > 5x RL, J associated data; professional judgment for results < 5 x RL |
| ***RLs + Quant:*** | Compound reported outside calibration range (< RL or at ppbV level > sample-specific highest ICAL standard for compound), J data. |

## *Sensitivity Requirements and Actions - continued*

| | |
|---|---|
| ***DV Qualifiers:*** | U = The analyte was analyzed for, but was not detected. The associated numerical value is the sample RL. UJ = The analyte was analyzed for, but was not detected at a level greater than or equal to the RL. The RL is an estimated quantity. J = The associated numerical value is an estimated quantity. The analyte was positively identified and the associated numerical value is the approximate concentration. J+ = The associated numerical value is estimated; associated QC data indicate a positive bias. J- = The associated numerical value is estimated; associated QC data indicate a negative bias. R = The data are unusable (analyte may or may not be present). Re-sampling and analysis are necessary for verification. |
| ***References:*** | NYSDOH*, Guidance for Evaluating Soil Vapor Intrusion in the State of New York,* October 2006 with updates through 2017*;* NYSDEC Analytical Services Protocol, June 2005 with NYSDEC Modifications to the EPA Region 9 TO-15 QA/QC Criteria, February 2008; USEPA Region II SOP HW-31, Validating Air Samples, Volatile Organic Analysis of Ambient Air in Canisters by Method TO-15, Rev. 6, June 2014; and Method TO-15, Determination of Volatile Organic Compounds (VOCs) in Air Collected in Specially-Prepared Canisters and Analyzed by Gas Chromatography/Mass Spectrometry (GC/MS), Publication EPA/625/R-96/010b, January 1999. |




**NANCY C. ROTHMAN, Ph.D.**

*CEO/Principal Scientist*

*Sr. Environmental Chemist*


### Professional Affiliations

- NJDEP Science Advisory Board
- Licensed Site Professional Association, Massachusetts, Associate Member (LSPA)
- Licensed Site Remediation Professional Association (LSRP)
- Interstate Technology & Regulatory Council (ITRC)
- Society of Environmental Toxicology and Chemistry (SETAC)

### Areas of Expertise

- Setting Data Quality Objectives (DQOs)
- Organic Chemistry
- Method Development
- Emerging Contaminants
- Quality Assurance Project Plans
- Technical Chemistry Review
- Field & Lab corrective action
- Data Validation
- Data Usability Assessments
- Quality Assurance Management
- Laboratory Audits
- Consultant for Regulatory Agencies
- Litigation Support & Expert Testimony

### Presentations / Training

- *Limitations of PFAS Data;* AEHS International Conference, 2017
- *Preservation & Holding Times for Contaminant Chemistry*; Gulf of Mexico Oil Spill Conference, 2014
- *Data Quality Assessment for Investigation & Remediation;* NJDEP LSRP Training, 2014
- *PCBs in Schools – NYC School Case Study;* AEHS International Conference, 2011
- *Sediment Data Quality for Use in Ecological Risk Assessment;* SETAC Conference, 2007

**Nancy Rothman, Ph.D.** is CEO and a Principal Scientist of New Environmental Horizons, Inc. (NEH). She is a recognized expert in organic environmental chemistry. Dr. Rothman has over 30 years of experience in the development of methods, analysis, and data evaluation for volatile (VOC) and semivolatile organic compounds (SVOC), including dioxins/furans and polychlorinated biphenyls (PCBs), with a specialty in emerging contaminants including Per- and Polyfluoroalkyl Substances (PFASs). She applies her depth of experience to evaluate usability of current and historical data and in the development and review of project-specific Work Plans, QAPPs, and method development for environmental investigations in support of NOAA NRDA, USEPA Superfund, US Army Corps of Engineers, and state-led programs. Dr. Rothman has successfully provided expert testimony and litigation support for complex environmental data issues involving analyses of polynuclear aromatic hydrocarbons (PAHs), VOCs, and PCBs.

Dr. Rothman is an appointed member of the New Jersey Department of Environmental Protection (NJDEP) Science Advisory Board offering technical expertise and guidance to the Office of Science on existing and emerging issues. She is also a member of the NJDEP Site Remediation Program Analytical Methods Technical Guidance Group, responsible for redesigning and developing QA/QC guidance for NJDEP. Dr. Rothman currently serves on two ITRC teams where she shares her expertise and assists in developing guidance for Total Petroleum Hydrocarbons (TPH) and PFAS.

## CREDENTIALS

### Education/Training

- Ph.D., Physical-Organic Chemistry, Brandeis University
- M.A., Physical-Organic Chemistry, Brandeis University
- B.S., Chemistry, Union College

## REPRESENTATIVE EXPERIENCE

**Emerging Contaminants**

Dr. Rothman currently serves on two Interstate Technology & Regulatory Council (ITRC) teams: "TPH Risk Evaluation at Petroleum-Contaminated Sites" and "Key Information Needed to Develop Strategies to Address Environmental Releases of Per- and Polyfluoroalkyl Substances (PFASs)". She assists in writing and reviewing ITRC guidance documents and fact sheets, working cooperatively with other scientists from the public and private sectors. Dr. Rothman has also developed project-specific Quality Assurance Project Plans (QAPPs) for other emerging contaminants including Endocrine Disruptors, Pharmaceuticals and Personal Care Products in sediments and water in support of environmental investigations.

**Project-specific Data Quality Objectives (DQOs), Method Development, Technical Review**

Dr. Rothman was the *Assistant Technical Work Group Leader for Chemistry and Sampling* for the **NOAA - Natural Resource Damage Assessment (NRDA) of the Deepwater Horizon Oil Spill**. She was responsible for coordinating sample collection and analysis activities for NOAA-NRDA for greater than 70,000 samples of sediment, water, soil, oil, and tissue. Dr. Rothman reviewed project-specific Work Plans, developed project DQOs and method-specific QA/QC acceptance criteria, assisted in method development, and performed technical review of NRDA reports.

**Preparation of Project-specific QAPPs**

Dr. Rothman has developed numerous project-specific QAPPs for large, complex sites including New Bedford Harbor, MA where the main contaminant of concern (COCs) are PCBs; Newtown Creek Superfund Site, NYC where the main COCs being investigated are PAHs, NAPL, and Metals; and for a large residential neighborhood in MA where vapor intrusion of VOCs from a contaminated groundwater plume was identified as a human health risk. She has experience with many regulatory programs, including USEPA (Regions 1, 2, and 3), NYSDEC, NYCDEP, NOAA-NRDA, US Army Corps (USACE), and state programs (CT, MA, ME, NH, NJ, NY, RI). This experience includes the more detailed format in the Uniform Federal Policy (UFP) for QAPPs, currently required by many of the USEPA Regions and the USACE.

**NANCY C. ROTHMAN, Ph.D.**
*CEO/Principal Scientist*
*Sr. Environmental Chemist*

**Presentations / Training – cont'd**

- *Out of the Frying Pan, into the Drinking Water: Health Hazards and Community Responses to Water Contaminated with PFCs;* Collaborative on Health and the Environment (CHE) Webinar, 2016
- *Analytical Rules and Technical Guidance;* NJDEP Training, 2014
- *Soil Vapor Intrusion Data – Planning and QA/QC Evaluation for Risk Assessment*; AEHS International Conference, 2007
- *Interpretation of Uncertainty in Dioxin/Furan Data for the Risk Assessor and Environmental Decision-Maker*; SETAC Conference, 2006
- *Demystifying Dioxin Data for the Environmental Decision*-Maker; AEHS International Conference, 2005
- *Evaluation of Data Quality for MCP Submittals*; MassDEP LSP Training, 2004
- *Planning the Collection and Analysis of Environmental Data to Support Risk Assessment;* National Environmental Monitoring Conference (NEMC), 2003
- *Quality of Environmental Measurements;* MassDEP LSP Training, 2001
- *Freeze-Drying of Sediments to Achieve Risk-Based Detection Levels for Polyaromatic Hydrocarbons (PAHs) and Metals;* AEHS International Conference, 2000
- *Effective Tools for Explaining Environmental Chemistry;* Boston Bar Association, 2000

**Data Validation and Usability Assessment**

Dr. Rothman has performed data validation and data usability assessments for thousands of environmental samples in a variety of media including waters, soils, sediments, biological tissues, and air. In addition to the standard organic analytical techniques, Dr. Rothman's expertise in data review extends to specialty analyses including LC/MS/MS, GC/MS/SIM, and high resolution / isotope dilution GC/MS methods.

**Litigation Support and Expert Testimony**

Dr. Rothman has been successful in using her expertise in litigation support and expert testimony as demonstrated by the following projects:

- **NYS - State of New York, Office of the Attorney General – Hudson River, NY.** Dr. Rothman provided litigation support and reviewed hundreds of results from historical Hudson River fish tissue data for PCBs generated on samples collected by NY State from 1969 through 1987. She authored "Privileged and Confidential Attorney Work Product" memoranda with technical opinions on historical data certainty (bias) and usability.
- **Reliance Insurance Company – Raybestos Products Company, Crawfordsville, IN.** Dr. Rothman was an Expert Witness, reviewed Work Plans, depositions, and reports on cleanup activities performed at and by the Raybestos company and ultimately provided an expert opinion on the source and timing of PCB and lead contamination of property adjacent to the facility.
- **State of Illinois - Donaldson, et al. vs. Central Illinois Public Service (CIPS), Taylorville, IL.** Dr. Rothman was an Expert Witness and reviewed case documentation focusing on the release and analysis of PAHs as a result of an Immediate Removal Action (IRA) of coal tar from a site owned by CIPS. She produced an expert opinion on activities at the site during the IRA and testified on remediation QA/QC practices and usability of analytical data for determining whether environmental conditions lead to development of cancer in the plaintiffs. Dr. Rothman's testimony helped win the case for the plaintiffs.

**Analytical Laboratory Audits**

As a former Laboratory Director of **Enseco-Erco Laboratory, Cambridge, MA and Enseco-East Laboratory, Somerset, NJ**, Dr. Rothman has in-depth knowledge of environmental analytical laboratory operations. Dr. Rothman directed two environment testing laboratories each with over 100 employees. She was responsible for operations, sales, customer service, information technology, business reporting, and QA/QC. Dr. Rothman also performed lab audits in support of the NOAA-NRDA for the Deep Water Horizon Oil Spill.

**Alliance with Regulatory Agencies**

Dr. Rothman has worked cooperatively with regulatory agencies to develop analytical guidance and to promote science-based policy. Select examples include the following:

- **2010-Present: NJDEP – Site Remediation Program Analytical Methods Technical Guidance Group, Trenton, NJ**. *Developed State Guidance / Training.* Assisting in redesigning and developing guidance for QAPP development, specified QA/QC requirements for Analytical Methods to produce Data of Known Quality, and developed Data Usability assessment guidance for NJDEP. Performed training on use of new guidance to NJDEP and License Site Remediation Professionals (LSRPs).

- **2006-2007: MassDEP Data Audit Project:** Dr. Rothman performed in-depth reviews of analytical data packages for EPH, VPH, APH, and TO-15 analyses from laboratories selected by MassDEP as part of a Data Audit project to ensure compliance with the methods and CAM. Dr. Rothman assisted in the generation of the final report to MassDEP summarizing the results of the data audits and recommendations for improvement.

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# APPENDIX E

**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 Yulya Taylor Date/Time Prepared 3.30.21

Preparer's Affiliation _____ Phone No. 631-206-3700

Purpose of Investigation SVE System Evaluation

**1. OCCUPANT:**

**Interviewed:** (Y) / N

Last Name: Tarbglio First Name: Ray

Address: 101 Westwood Ave,

County: Westchester

Home Phone: _____ Office Phone: 914-948-1100

Number of Occupants/persons at this location _____ Age of Occupants 25-60

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

**Interviewed: Y / N**

Last Name: _____ First Name: _____

Address: AAA Northeast – 110 Royal Little Dr. Providence, RI

County: _____

Home Phone: _____ Office Phone: 516-873-2373

**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)

| | | |
|---|---|---|
| Ranch | 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) Auto repair / body shop

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

**Other characteristics:**

Number of floors 1 Building age 1951

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

N/A

Airflow near source

Outdoor air infiltration through garage doors

Outdoor air infiltration

Enters through overhead garage doors which are opened periodically.

Infiltration into air ducts

**5. BASEMENT AND CONSTRUCTION CHARACTERISTICS** (Circle all that apply) N/A

| | | | | |
|---|---|---|---|---|
| **a. Above grade construction:** | wood frame | concrete | stone | brick |
| **b. Basement type:** | full | crawlspace | slab | other _____ |
| **c. Basement floor:** | concrete | dirt | stone | other _____ |
| **d. Basement floor:** | uncovered | covered | covered with _____ | |
| **e. Concrete floor:** | unsealed | sealed | sealed with _____ | |
| **f. Foundation walls:** | poured | block | stone | other _____ |
| **g. Foundation walls:** | unsealed | sealed | sealed with _____ | |
| **h. The basement is:** | wet | damp | dry | moldy |
| **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:** N/A (feet)

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

_____

_____

**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:** _____

**Boiler/furnace located in:** Basement Outdoors Main Floor Other_____

**Air conditioning:** Central Air (Window units) Open Windows None

4

**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 | N/A |
| 1st Floor | Auto repair / body shop |
| 2nd Floor | |
| 3rd Floor | |
| 4th Floor | |

## 8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

**a. Is there an attached garage?** (Y) / N

**b. Does the garage have a separate heating unit?** (Y) / N / NA

**c. Are petroleum-powered machines or vehicles stored in the garage** (e.g., lawnmower, atv, car) (Y) / N / NA
Please specify cars / trucks

**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? Occasionally

**h. Have cleaning products been used recently?** (Y) / N When & Type? Soaps / detergents

**i. Have cosmetic products been used recently?** Y / N When & Type? Paint booth



**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? roof

**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: Yes, associated paint booth

**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:**

N/A

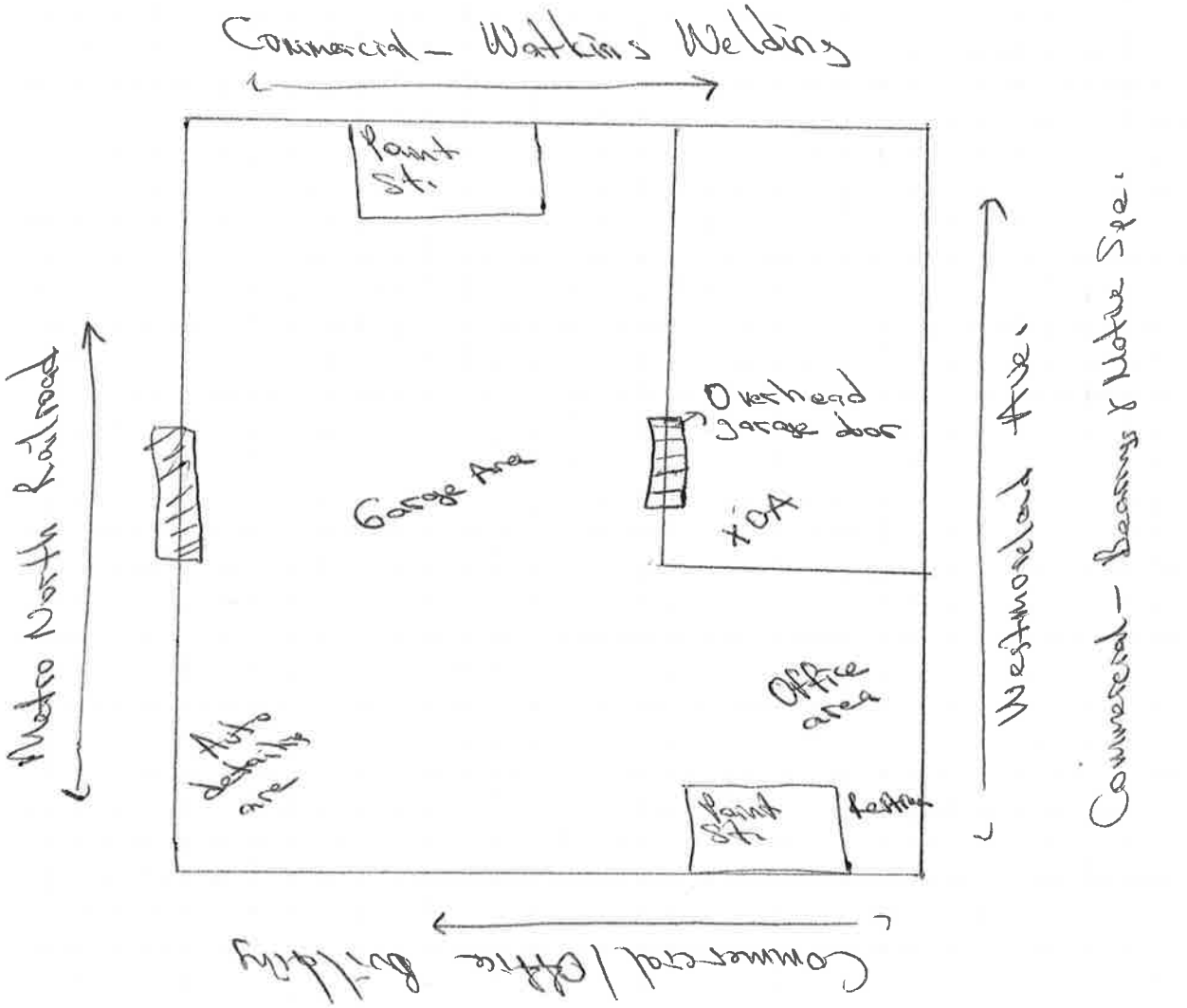
**First Floor:**

Attached

**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**

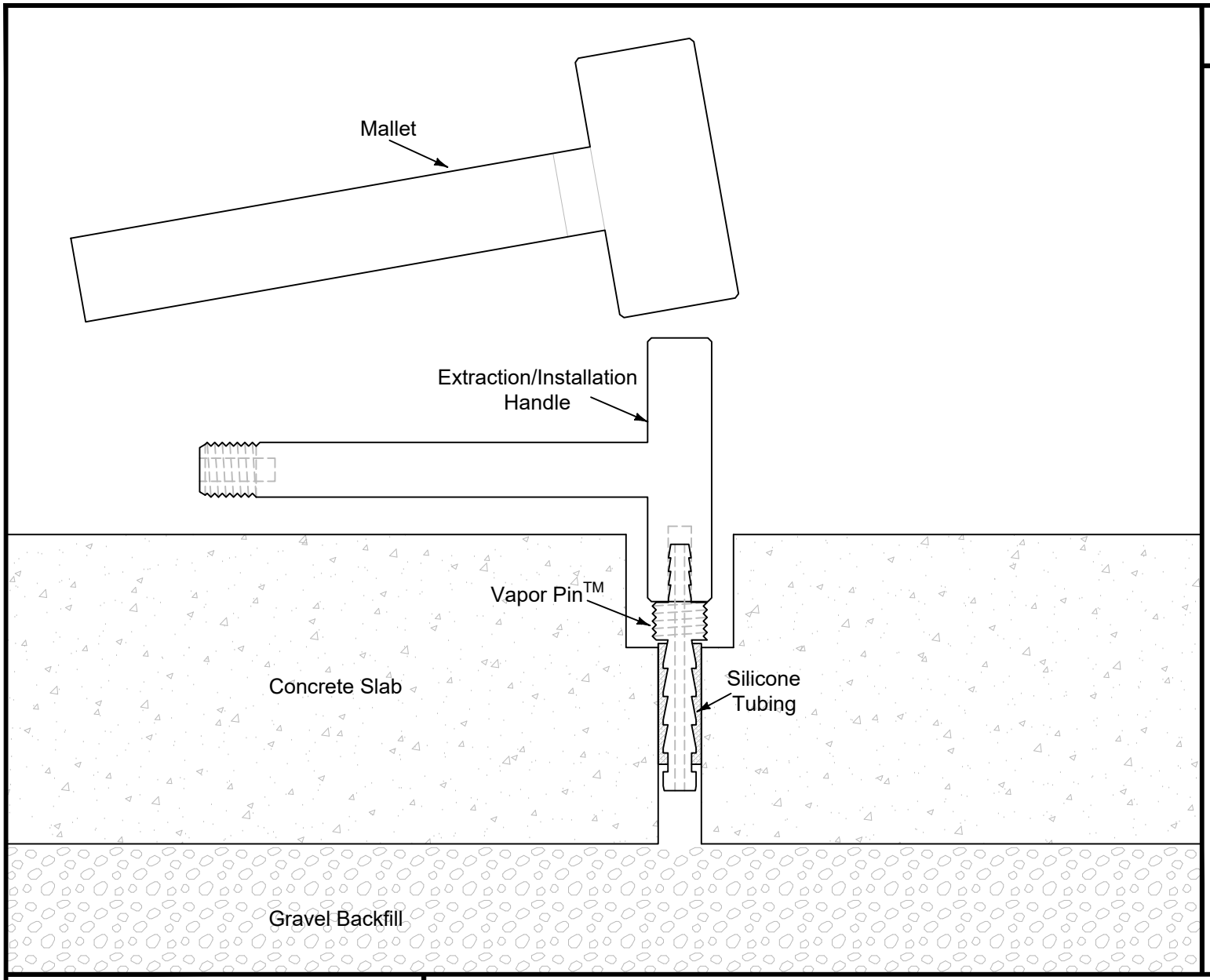
**Make & Model of field instrument used:** MultiRAE PID Meter

**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 |
|---|---|---|---|---|---|---|
| Garage | Antifreeze | | | Ethylene glycol | 0 | |
| " | Gear oil | | | Aliphatic Hydro | 0 | |
| " | Motor oil | | | Synthetic oil | 0 | |
| " | Brake fluid | | | Glycol | 0 | |
| " | Paint | | | Titanium | | |
| " | New Motor oil | | | Engine oil | | |
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* Describe the condition of the product containers as **Unopened (UO), Used (U),** or **Deteriorated (D)**
** Photographs of the **front and back** of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

# APPENDIX F



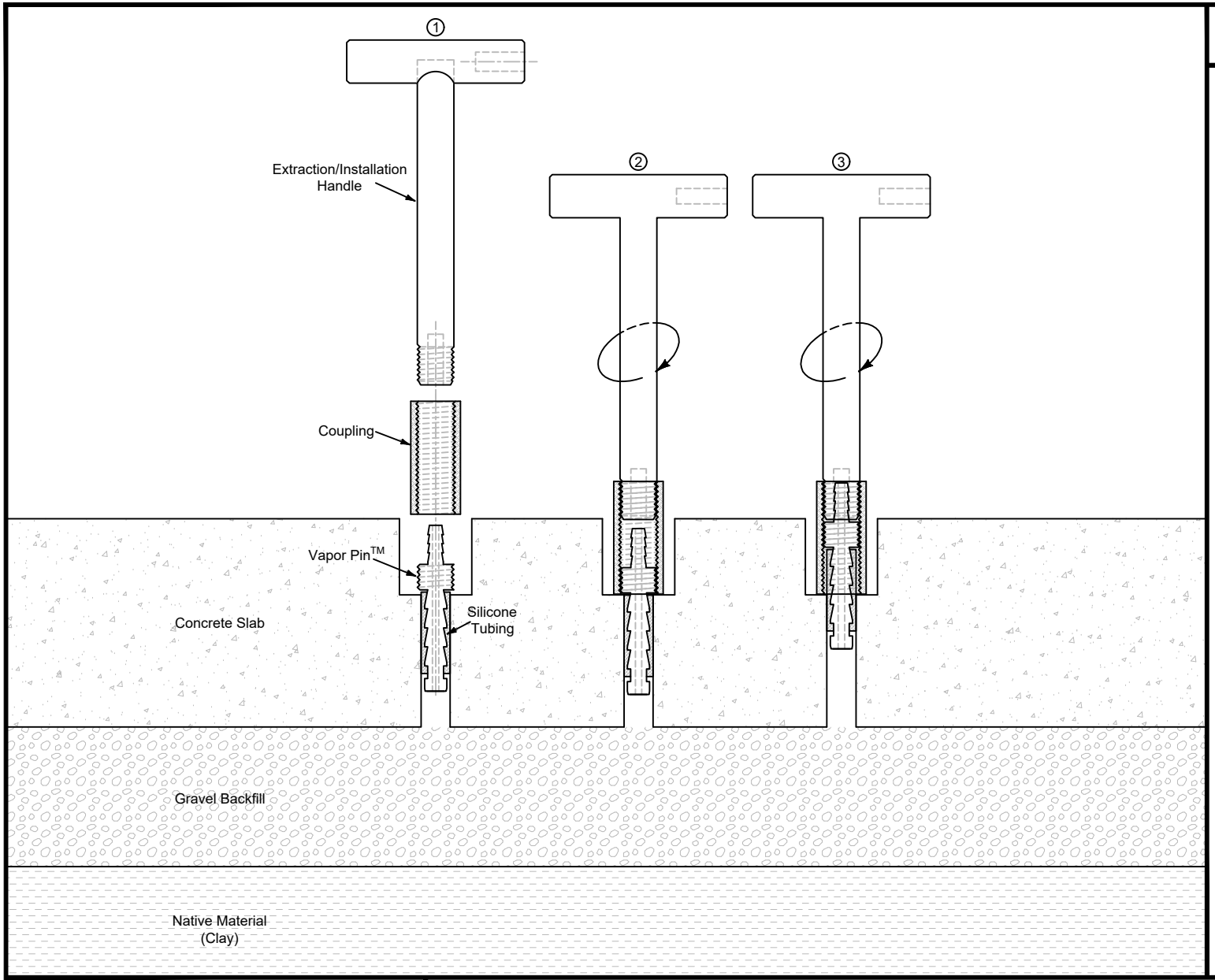

## Legend

VaporPin®

Vapor Pin® Installation,
Vapor Pin Enterprises, Inc.
January 4, 2010

Figure

1




## *Legend*

① Vapor Pin™ Extraction/Installation Tool Components

② Vapor Pin™ Extraction/Installation Tool Engaged

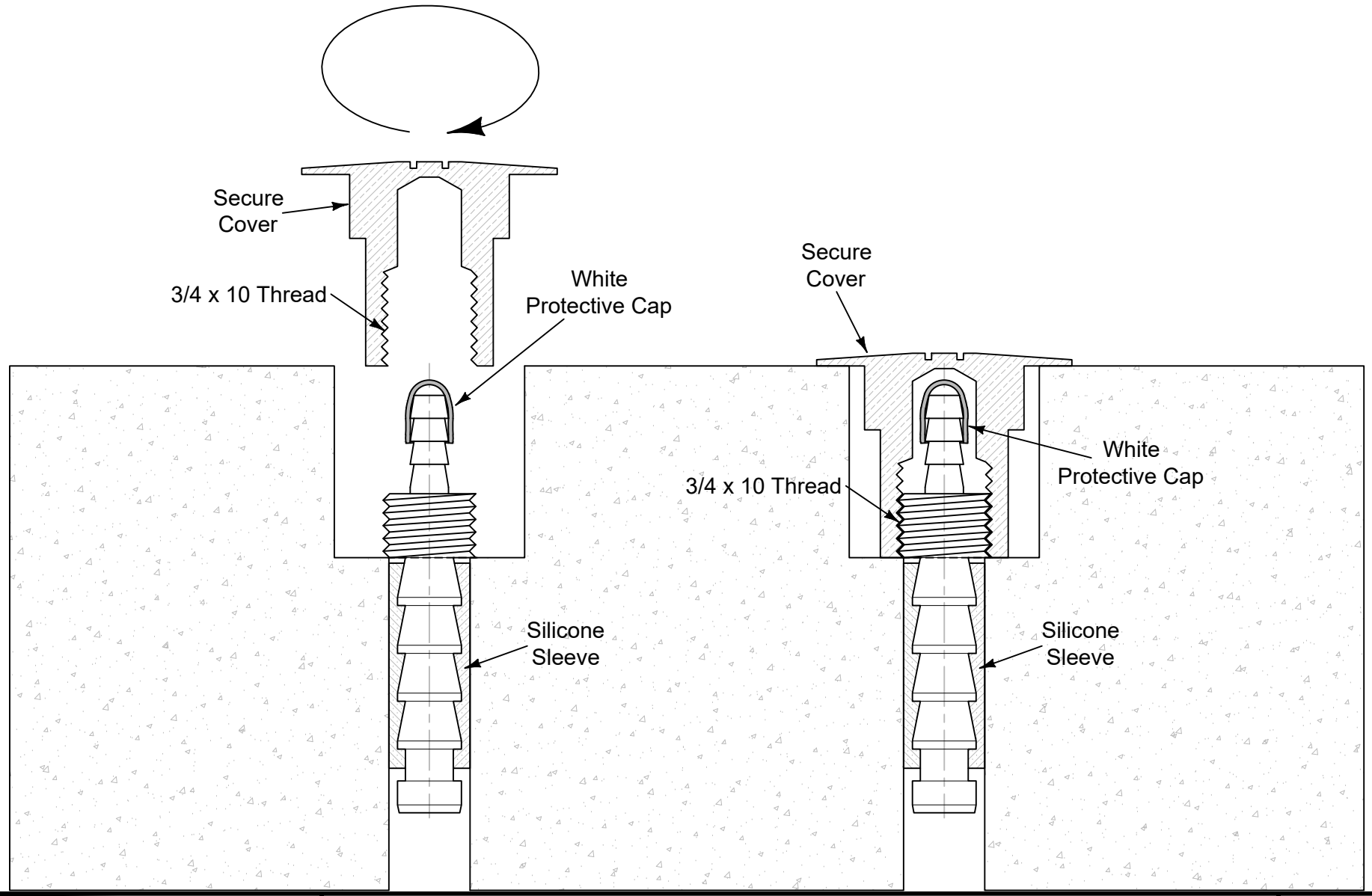
③ Vapor Pin™ Assisted Extraction Complete

VaporPin®

Vapor Pin® Removal,
Vapor Pin Enterprises, Inc.
January 4, 2010

Figure

2

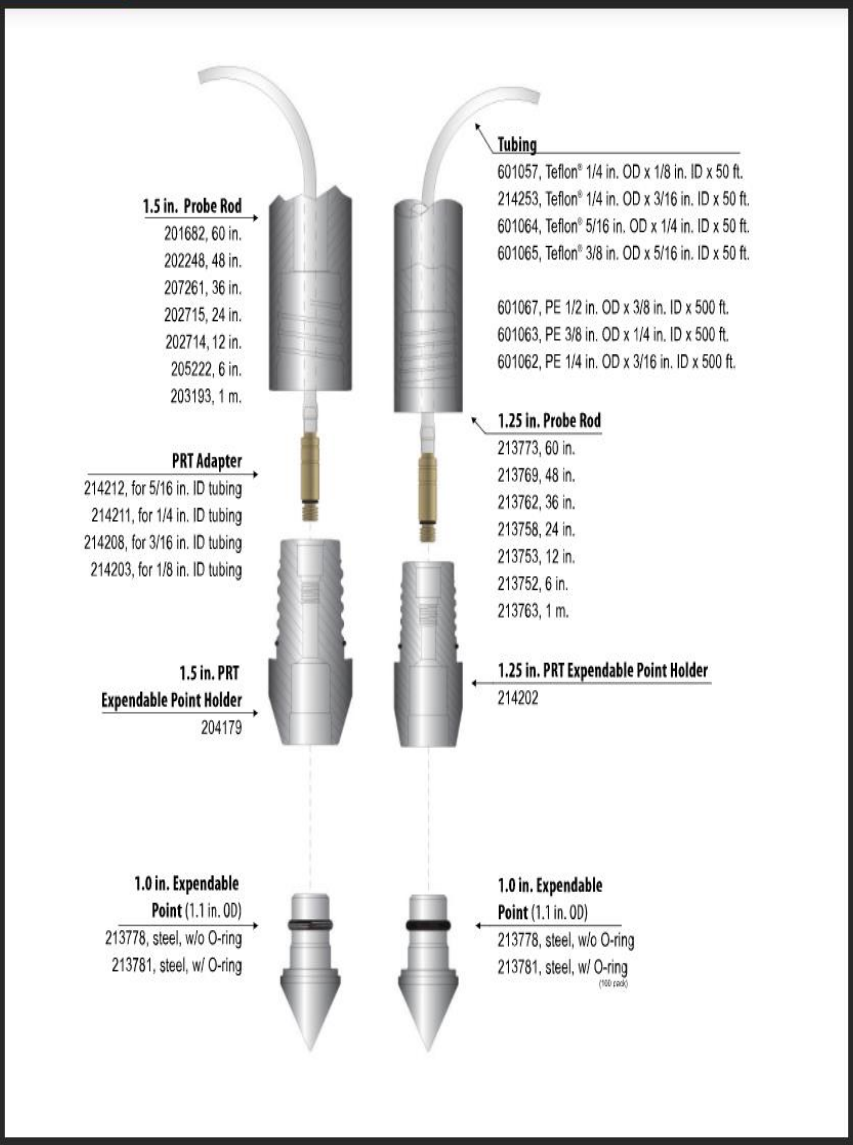



VaporPin®

Stainless Steel Vapor Pin® and Secure Cover,
Vapor Pin Enterprises, Inc.
January 4, 2010

Figure

3


Tubing
601057, Teflon® 1/4 in. OD x 1/8 in. ID x 50 ft.
214253, Teflon® 1/4 in. OD x 3/16 in. ID x 50 ft.
601064, Teflon® 5/16 in. OD x 1/4 in. ID x 50 ft.
601065, Teflon® 3/8 in. OD x 5/16 in. ID x 50 ft.
601067, PE 1/2 in. OD x 3/8 in. ID x 500 ft.
601063, PE 3/8 in. OD x 1/4 in. ID x 500 ft.
601062, PE 1/4 in. OD x 3/16 in. ID x 500 ft.
1.5 in. Probe Rod
201682, 60 in.
202248, 48 in.
207261, 36 in.
202715, 24 in.
202714, 12 in.
205222, 6 in.
203193, 1 m.
1.25 in. Probe Rod
213773, 60 in.
213769, 48 in.
213762, 36 in.
213758, 24 in.
213753, 12 in.
213752, 6 in.
213763, 1 m.
PRT Adapter
214212, for 5/16 in. ID tubing
214211, for 1/4 in. ID tubing
214208, for 3/16 in. ID tubing
214203, for 1/8 in. ID tubing
1.5 in. PRT Expendable Point Holder
204179
1.25 in. PRT Expendable Point Holder
214202
1.0 in. Expendable Point (1.1 in. OD)
213778, steel, w/o O-ring
213781, steel, w/ O-ring
1.0 in. Expendable Point (1.1 in. OD)
213778, steel, w/o O-ring
213781, steel, w/ O-ring
(100 pack)