

**Information Technology High School**  
Long Island City, Queens County, New York

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# **Periodic Review Report**

Voluntary Cleanup Program  
VCP #V00366-2

**Prepared for**

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| Revision # | Submitted | Summary of Revision | Approval |
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**MAY 2023**

## CERTIFICATION

For each institutional or engineering control identified for the site, I certify that all of the following statements are true:

- (a) the institutional control and/or engineering control employed at this site is unchanged from the date the control was put in place, or last approved by DER;
- (b) nothing has occurred that would impair the ability of such control to protect public health and the environment;
- (c) nothing has occurred that would constitute a violation or failure to comply with any Site Management Plan for this control;
- (d) access to the site will continue to be provided to DER to evaluate the remedy, including access to evaluate the continued maintenance of this control; and

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



Arnold F. Fleming, P.E.

8/24/2023

Arnold F. Fleming

NYS Professional Engineer # 050411

Date

Signature

It is a violation of Article 145 of New York State Education Law for any person to alter this document in any way without the express written verification of adoption by any New York State licensed engineer in accordance with Section 7209(2), Article 145, New York State Education Law.

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## EXECUTIVE SUMMARY

This Periodic Review Report (PRR) documents the activities subject to the Site Management Plan (SMP) for Voluntary Cleanup Program (VCP) Site #V00366-2 (Site). This PRR covers Site activity from April 3, 2022 to April 3, 2023. The Site is located at 21-16 44<sup>th</sup> Road in Long Island City, Queens County, New York and is identified as Block 438, Lots 23 and 26 on the New York City Tax Map. A Site Location Map and a Site Plan are provided as Figure 1 and 2, respectively. The Site is regulated by the New York State Department of Environmental Conservation (NYSDEC). The engineering and institutional controls (EC/IC) were implemented and maintained in accordance with the SMP and its revisions approved by NYSDEC on May 31, 2017 and December 18, 2018.

The purpose of this PRR and Annual Certification is to document on-going Site management activities associated with the permanent ECs and ICs in place at the Site, and to certify that these controls are maintained in accordance with the Cleanup Agreement.

Past activities at the Site resulted in the release of volatile organic compounds (VOCs) to the Site soil and groundwater. The primary contaminant identified in the soil and groundwater was tetrachloroethylene (PCE). Excavation activities were completed throughout the Site to remove contaminated source material, but residual contamination (dissolved phase and vapor phase) remained on-site. As a result, several Engineering Controls and Institutional Controls were implemented on-site. To date, the ECs and ICs maintained at the Site are operating effectively as designed and are protective of human health and the environment.

Details of the EC/ICs can be found in the Engineering and Institutional Control Plan portion of the SMP. All components of the SMP, including EC and ICs, are functioning as intended and comply with NYSDEC requirements. Fleming, Lee Shue Environmental Engineering and Geology, D.P.C. (FLS) does not recommend any changes to the SMP or site management procedures.

## **1.0 SITE OVERVIEW**

### **1.1 Site Description**

The Site occupies 0.82 acres and is bound by 44<sup>th</sup> Road to the north, 44<sup>th</sup> Drive and an industrial building to the south, an industrial building to the east, and 21<sup>st</sup> Street and a fast-food restaurant to the west. The boundaries of the Site are more fully described in the metes and bounds site description (Appendix A).

The Site consists of a four-story masonry and stucco structure currently utilized as Information Technology High School (the School). The Site is a former drapery hardware manufacturer and distributor. The eastern portion of the factory was dedicated to cleaning, de-greasing, oil-extraction, powder coating and painting of metal drapery hardware. Prior to this usage, the Site is believed to have contained a metal plating and finishing facility. Both operations are historically known for utilizing chlorinated degreasers.

### **1.2 Investigation and Remediation**

Various Remedial investigations conducted between 1997 and 2002 revealed the presence of VOC vapors under the building slab and in the groundwater. The source of VOCs was determined to be a former drum storage area (outside the footprint of the current school) where localized contaminated soil was identified and removed from the Site. The Site's primary contaminants of concern are PCE and trichloroethylene (TCE). Elevated concentrations of lead were also identified in soil beneath dry drains located under the buildings and in the courtyard.

Remedial excavation took place between December 2001 and August 2002. Remediation removed soil or a combination of soil/ash from several areas around the Site. The following removal of materials took place during that time period:

- Excavations near the former drum storage area removed 25 cubic yards of soil;
- approximately 900 cubic yards of soil/ash were removed from the first floor and basement;
- three basement sumps had sediment removed;
- four excavation pits in the parking lot removed 130 cubic yards of soil; and

- an additional 240 cubic yards of topsoil were removed before the parking lot was capped with a six-inch thick concrete slab.

### **1.3 Remedial Action Objectives**

The Remedial Action Objectives (RAO) for the Site are as follows:

#### **Groundwater**

RAOs for Public Health Protection:

- Prevent ingestion of groundwater with contaminant levels exceeding drinking water standards.
- Prevent contact with, or inhalation of, volatiles from contaminated groundwater.

RAOs for Environmental Protection:

- Restore groundwater aquifer to pre-disposal/pre-release conditions, to the extent practicable.

#### **Soil**

RAOs for Public Health Protection:

- Prevent ingestion/direct contact with contaminated soil.
- Prevent inhalation of or exposure from contaminants volatilizing from contaminants in soil.

## **2.0 REMEDY EVALUATION**

### **2.1 Remedy Performance, Effectiveness and Protectiveness**

#### **2.1.1 Soil**

In performing the onsite soil cleanup activities, the Volunteer used the NYSDEC recommended soil cleanup objectives, as set forth in TAGM 4046, as the end goal. These established soil cleanup objectives are considered protective of public health and the environment. The cleanup activities performed at the Site fulfilled requirements for compliance with school use being the intended use for the Site. A minimum one to two feet of all exposed surface soils which exceeded the Site background values for contaminants of concern were excavated and disposed of off-site. This included soils originally covered by the components of the development of the Site (building concrete slab and courtyard asphalt). The excavated areas were then backfilled with clean fill material, all of which was below the applicable soil cleanup objectives. A summary of the material and quantities removed from the Site can be found in section 1.4.1 of the SMP.

#### **2.1.2 Groundwater**

Initial groundwater characterization sampling began in September of 2002. Seventeen (17) monitoring wells were used for characterizing the groundwater beneath the Site. Since that time NYSDEC has requested several groundwater monitoring wells be discontinued and/or abandoned. Currently, nine (9) monitoring wells (MW-1, MW-6, MW-7, MW-8, MW-9, BMRW-1, BMRW-2, BMRW-3, and RW-1) are utilized for groundwater elevation measurements and groundwater sampling activities. The current monitoring well network is shown on Figure 2.

The suspected source area is believed to be the former drum storage section of the Site. This theory is generally supported by the dissolved phase contaminant distribution throughout the Site, with the highest concentrations of PCE and TCE being detected in the vicinity of the former drum storage area and historically lower concentrations being detected along the perimeter of the Site. The exception being concentration fluctuations within MW-1 located on the north side of the Site.

The groundwater sampling results from this reporting period (April 2022 – April 2023) demonstrate variability in VOCs concentrations across the Site. The October 2022 groundwater sampling event showed variability in total VOC concentrations in bedrock wells and a general

increase in contaminant concentrations in overburden wells. Generally, contaminant concentrations appear to be isolated to the center of the Site from the former drum storage area extending north towards 44<sup>th</sup> Road. The analytical groundwater results from the semi-annual groundwater sampling event conducted in this reporting period is presented in Table 4. Groundwater results are further discussed in section 4.3. A second semi-annual groundwater sampling event is scheduled to be conducted in May 2023 and the results will be reported in a separate groundwater sampling report.

### 2.1.3 Soil Vapor

Onsite soil vapor data was collected as part of the remedial investigation activities. The investigation consisted of collecting soil vapor samples from thirty-three (33) geoprobe locations in August of 2002. The sampling was conducted prior to the removal of the old concrete slab within the building. The onsite soil vapor contamination consisted of VOCs consistent with the source area (PCE contamination originating from the former drum storage area). The highest concentration of PCE detected in the soil vapor (80,000 ppbv) was detected at 13.5 ft below ground surface (bgs), just above the groundwater table and adjacent to the former drum storage area. The remaining sampling locations throughout the Site had VOC concentrations significantly lower than the maximum concentration found. Soil vapor concentrations from the first floor and basement ranged from non-detect to 851 ppbv and non-detect to 11.6 ppbv, respectively.

After removal of the concrete slab, another round of soil vapor sampling was conducted. The results of the second investigation showed that the highest concentration of PCE detected was now 1,180 ppbv. The removal of the slab and off-gassing caused a large reduction in the first floor. PCE concentrations in the basement remained relatively low after the removal of the slab, ranging from non-detect to 16.4 ppbv.

Currently, sub-slab vapor concentrations are monitored through the sampling of the SSDS effluent. Contaminants of concern, PCE and TCE, had concentrations below the New York State Department of Health (NYSDOH) Final Guidance for Evaluating Soil Vapor Intrusion matrices dated October 2006 (updated May 2017) when analyzing the SSDS effluent. The highest concentrations observed during this reporting period were non-contaminants of concern including

acetone ( $55.7 \mu\text{g}/\text{m}^3$ ), toluene ( $8.55 \mu\text{g}/\text{m}^3$ ), and isopropanol ( $6.02 \mu\text{g}/\text{m}^3$ ). In both the July 2022 and January 2023 SSDS sampling events, PCE and TCE concentrations were detected at low levels ( $2.350 \mu\text{g}/\text{m}^3$  and  $0.414 \mu\text{g}/\text{m}^3$ , respectively).

### **3.0 INSTITUTIONAL AND ENGINEERING CONTROLS COMPLIANCE**

#### **3.1 Institutional Controls Requirements and Monitoring**

A series of ICs are required by the SMP to protect human health and the environment. Adherence to these ICs on the Site is required by the environmental easement and are implemented under the SMP. ICs identified in the environmental easement may not be discontinued without an amendment to or extinguishment of the environmental easement (Appendix A). The ICs are as follows:

- All ECs must be operated and maintained as specified in the SMP;
- All ECs must be inspected at a frequency and in a manner defined in the SMP;
- Groundwater, soil vapor, and other environmental or public health monitoring must be performed as defined in the SMP;
- Data and information pertinent to Site management must be reported to NYSDEC at the frequency and in a manner as defined in the SMP;
- On-site environmental monitoring devices, included but not limited to, groundwater monitoring wells and soil vapor points, must be protected and replaced as necessary to ensure continued functioning in the manner specified in this SMP;
- Operation, maintenance, monitoring, inspection, and reporting of any mechanical or physical component of the remedy shall be performed as defined in the SMP;

The Site has an additional series of Institutional Controls in the form of Site restrictions. Site restrictions that apply to the Site are:

- Use of groundwater underlying the Controlled Property is prohibited without treatment rendering it safe for the intended use;
- All future activities on the Controlled Property that will disturb residual contaminated material are prohibited unless they are conducted in accordance with the soil management provisions in this SMP;
- The Controlled Property may be used for unrestricted use, provided the long-term Engineering and Institutional Controls included in the SMP remain in use;



- In addition to required environmental monitoring, New York City Department of Education (NYCDOE) had proposed to perform indoor air sampling within the school at the request of the community.

Site-wide inspections will be performed annually by a Professional Engineer or by a person under direct supervision of the Professional Engineer. Site-wide inspections will also be performed after all severe weather conditions that may affect ECs or monitoring devices. During these inspections, a Site inspection form will be completed as provided in Appendix B. The completed Institutional and Engineering Controls Certification Form is provided in Appendix C. A Photographic Log is provided in Appendix D and documents Site conditions at the end of the reporting period. The form will compile sufficient information to assess the following:

- Compliance with all ICs, including Site usage;
- General Site conditions at the time of the inspection;
- The Site management activities being conducted including, where appropriate, confirmation sampling and a health and safety inspection; and
- Confirm that Site records are up to date.
- A comprehensive Site-wide inspection will be conducted and documented according to the SMP schedule, regardless of the frequency of the PRR. The inspections will determine and document the following:
  - Compliance with requirements of the SMP and the Environmental Easement; and
  - If Site records are complete and up to date.

## **3.2 Engineering Controls Requirements and Monitoring**

### **3.2.1 Composite Cover System**

Exposure to remaining contamination soil/fill is prevented by a composite cover system built on-Site. This composite cover system is comprised of concrete-covered sidewalks, a concrete with overlying paving stone courtyard, and an interior flooring system composed of: (from bottom to top) 1 foot gravel, a 40-mil HDPE liner, a protection board layer, and a steel mesh reinforced 8-inch-thick concrete slab as well as a spray-on epoxy vapor barrier along the western basement wall adjacent to the first floor.

The composite cover system is a permanent control and the quality and integrity of this system will be inspected at defined, regular intervals in accordance with the SMP in perpetuity.

### 3.2.2 Sub-Slab Depressurization System

The sub-slab depressurization system was installed beneath the composite cover system under the building. The system consists of 17 horizontal pipe legs (11 beneath the first floor and 6 beneath the basement) installed within the approximately 1-foot-thick pea gravel layer beneath the High-density polyethylene (HDPE) liner. The solid piping consisted of 10-foot lengths of 2-inch inside diameter (I.D.), Schedule 40 polyvinyl chloride (PVC) pipe. The screened areas at the end of each pipe run consist of two 10-foot lengths of 2-inch I.D. 20-slot Schedule 40 PVC slotted pipe. After the elevations of the pipe were set, it was covered over with pea gravel and the interior grade was leveled off. A map showing the location of the system shed as well as the locations of the horizontal SSDS pipe legs is shown in Figure 3. Additionally, a process and instrumentation diagram of the treatment system and the shed layout are shown on Figures 4 and 5, respectively.

Procedures for operating and maintaining the SSDS are documented in the Operation and Maintenance Plan (Section 4 of the SMP). Procedures for monitoring the system are included in the Monitoring Plan (Section 3 of the SMP). The Monitoring Plan also addresses severe condition inspections in the event that a severe condition, which may affect controls at the Site, has occurred.

### 3.2.3 Vertical Soil Vapor Extraction System

A vertical soil vapor extraction system consisting of four vertical SVE wells was installed in the former drum storage area (source area). The vapor extraction wells were constructed of 4-inch diameter PVC screen and riser pipe. The screen was set from approximately 21-23 ft bgs to 3 ft bgs. The geologic log and construction details for vapor extraction wells VE-1 through VE-4 are presented in the Remedial Investigation Report dated October 2002. The wells were connected to a 15-horsepower blower which places a vacuum on each well. The air stream was then forced through vapor phase carbon prior to discharge to the atmosphere. The remedial goals for the termination of the SVE system included: residual contamination concentrations in ground water and soil vapor: (1) are cleaned up to levels below NYSDEC standards (TOGS 1.1.1 values for groundwater and NYSDOH vapor intrusion guidance matrix for soil vapor), and (2) have

become asymptotic over an extended period of time. After written approval from both NYSDEC and NYSDOH, the SVE system was shut off in October of 2010.

### 3.2.4 Groundwater Pump and Treat System

The groundwater pump and treat system (GWTS) extracting groundwater from RW-1 located in the former drum storage area (source area) was installed to address the remaining residual contamination onsite. Recovery Well, RW-1 was constructed of 8-inch diameter PVC screen and riser pipe. The screen was set from approximately 21 ft bgs to 9 ft bgs. The geologic log and construction detail for RW-1 is included in the Remedial Investigation Report dated October 2002. A submersible groundwater pump was installed within RW-1 and pumped water to the treatment shed where there was a groundwater treatment system consisting of four, 200lb liquid phase carbon units. After flowing through the carbon units, the treated groundwater was discharged to the New York City combined sewer system. The remedial goals for the termination of the GWTS included: residual contamination concentrations in ground water and soil vapor: (1) are cleaned up to levels below NYSDEC standards (TOGS 1.1.1 values for groundwater and NYSDOH vapor intrusion guidance matrix for soil vapor), and (2) have become asymptotic over an extended period of time. After written approval from both NYSDEC and NYSDOH, the GWTS system was shut off in June of 2014.

## **3.3 Corrective Measures**

### 3.3.1 Institutional Controls

There were no deficiencies observed during the reporting period that would require corrective measures for the ICs.

### 3.3.2 Engineering Controls

#### *Composite Cover System*

There were no deficiencies identified that would require corrective measures for the composite cover system.

### *Sub-Slab Depressurization System*

On October 28, 2022 FLS was on Site to conduct the semi-annual groundwater sampling event. Staff observed that a joint connection between the SSDS effluent header and the effluent stack had disconnected and the SSDS was emitting clean effluent (0.0 ppm confirmed with PID instrumentation) into the adjacent alley space with 21-21 44<sup>th</sup> Drive. There were no visible air intakes within the vicinity of the disconnected effluent. The SSDS was subsequently shut down until repairs could be made and NYSDEC notified. On November 1, 2022 FLS and a maintenance contractor were able to mobilize to the Site and reconnect the effluent SSDS piping. The SSDS was subsequently restarted and air flow was confirmed at the exhaust point on the roof. NYSDEC and NYSDOH were notified of subsequent repairs and NYSDEC informed FLS that a Corrective Measures Report would not be necessary and that repairs would be summarized in the annual PRR.

### **3.4 Institutional and Engineering Control Certification**

During the reporting period, FLS conducted an annual inspection of the Site. In the annual inspection the institutional and engineering controls were in place and effective. All requirements are being met and FLS does not recommend any changes. The signed Engineering Control and Institutional Control certification form is included in Appendix C.

## 4.0 MONITORING PLAN COMPLIANCE

The SMP was originally approved in 2008. In May 2017, the Site consultant changed from LBG Engineering Services, P.C to Arnold F. Fleming, P.E and Fleming-Lee Shue Inc. who then took over site management responsibilities. FLS requested alterations to the monitoring schedule and Site Management Plan modification request was submitted to NYSDEC. Subsequently, the groundwater monitoring frequency was reduced from quarterly to semi-annual. Additionally, the sub-slab depressurization system monitoring frequency was also reduced from monthly to semi-annual. The May 31, 2017 NYDEC Approval letter is provided in Appendix E.

A reduction in the monitoring well network was also requested by FLS in 2017. Monitoring wells MW-2, MW-5, MW-10, and MW-13 were approved to be removed from future monitoring events in a December 19, 2018 NYSDEC Approval letter. The monitoring wells were subsequently decommissioned. The approval letter is also provided in Appendix E.

### 4.1 Components of the Monitoring Plan

Tables 1 and 2 describe the monitoring requirements and monitoring frequency by media as approved in the SMP.

**Table 1 – Monitoring Requirements by Media**

| Media               | Frequency     | Analysis or Measurement |
|---------------------|---------------|-------------------------|
| Groundwater         | Semi-annually | TCL VOCs                |
| Soil vapor effluent | Semi-annually | TO-15 VOCs              |

**Table 2 – Monitoring Requirement by Remedial System**

| Remedial Technology    | Frequency     | Parameter(s)                        |
|------------------------|---------------|-------------------------------------|
| Active SSDS Components | Semi-annually | Vacuum, flow rate (cfm), VOCs (ppm) |
| Composite Cover System | Annually      | Intact                              |

## 4.2 Summary of the Monitoring Completed

Table 3 below describes the monitoring tasks completed during the reporting period.

**Table 3 – Monitoring by Reporting Period**

| Monitoring Task                   | Frequency     | Description                                                                         |
|-----------------------------------|---------------|-------------------------------------------------------------------------------------|
| Groundwater sampling              | Semi-annually | Collect groundwater samples for required analyses (see Table 4 for sample results). |
| Groundwater elevation measurement | Semi-annually | Collect depth to water measurements at all monitoring wells (see Section 5.3.2).    |
| SSDS monitoring                   | Semi-annually | Collect vacuum, flow rate, temperature, and PID readings (ppm) from each leg.       |
| Composite Cover System            | Annually      | Inspect the condition of concrete slab and foundation walls.                        |

## 4.3 Groundwater Monitoring

The Composite Cover System prevents exposure to contaminated groundwater and the SSDS prevents inhalation of volatiles from contaminated groundwater. Inspection of the slab and foundation walls found both elements in very good condition with no leakage of groundwater into the building. The SSDS is operating as intended and preventing any exposure to subsurface contaminants.

Initial groundwater characterization sampling began in September of 2002. Seventeen (17) monitoring wells were used for characterizing the groundwater beneath the Site. Since that time NYSDEC has requested several groundwater monitoring wells be discontinued and/or abandoned. Currently, nine (9) monitoring wells (MW-1, MW-6, MW-7, MW-8, MW-9, BMRW-1, BMRW-2, BMRW-3, and RW-1) are utilized for the semi-annual groundwater elevation measurements and groundwater sampling activities. The current monitoring well network is shown on Figure 2. The groundwater monitoring program involves the following:

- Measurement of groundwater field parameters including pH, dissolved oxygen (DO), total dissolved solids (TDS), conductivity, oxidation-reduction potential (ORP), turbidity, salinity, and temperature to determine groundwater conditions; and
- Collection of groundwater samples analyzed for VOCs to evaluate chlorinated VOC concentration trends and monitor natural attenuation.

During the reporting period groundwater sampling was conducted on the following dates on October 28, 2022. A second semi-annual groundwater sampling event is scheduled for May 2023 and the results reported in a separate groundwater sampling report.

#### **4.3.1 Semi-Annual Groundwater Sampling Event (October 2022)**

Groundwater samples were collected from eight (8) on-Site monitoring wells (MW-6, MW-7, MW-8, MW-9, BRMW-1, BRMW-2, BRMW-3 and RW-1) on October 28, 2022. Sampling of one off-Site monitoring well (MW-1) was attempted, but due to silting of the well screen no groundwater was measured within the well. Therefore, it was unable to be sampled.

##### 4.3.1.1 Groundwater Elevation Measurements

Prior to sampling, a synoptic round of water-level measurements was collected using a water-level meter. Groundwater elevations ranged from -0.12 ft-above mean sea level (amsl) (BRMW-1) to 2.77 ft-amsl (BRMW-3, MW-9). Historically, groundwater flow has varied, with local groundwater flow direction being towards the south. A bedrock contour map showing groundwater flow within the lower aquifer is presented in Figure 6. An overburden contour map was unable to be generated due to an insufficient groundwater elevation data from overburden wells owing to the lack of measurable groundwater in MW-1 due to silting.

##### 4.3.1.2 Groundwater Sampling Analytical Results

The groundwater analytical results were compared to the NYSDEC Division of Water Technical and Operational Guidance Series 1.1.1 Ambient Water Quality Standards and Guidance Values (TOGS Standard) and are summarized in Table 4. October 2022 groundwater results are shown on Figure 7. Analytical groundwater results from the October 2022 show the majority of VOCs at all

monitoring well locations were non-detect or below the TOGS Standard, the exception being PCE and its associated degradation daughter products (i.e., TCE and cis-1,2-dichloroethene).

Generally, concentrations of contaminant of concern PCE exhibited variability across the Site during the October 2022 event. PCE was detected in all eight of the monitoring wells sampled in concentrations exceeding the TOGS Standard and ranged from 14.9 µg/L (MW-8) to 1,690 µg/L (MW-6). The mean and median PCE concentrations were 468 µg/L and 122 µg/L, respectively. Concentrations of PCE in MW-6 increased from 803 µg/L in the last event (April 2022) to 1,690 µg/L representing a new high for the well. Concentrations of PCE in MW-6 have been increasing rapidly the last three sampling events (753% increase since September 2021), which is thought to be attributed to an off-site source (discussed in further detail below). In contrast, concentrations of PCE within wells MW-8, MW-9, MW-7 and BRMW-1 all decreased relative to the previous event. Overall, both overburden and bedrock wells showed variability in PCE concentrations compared to the last sampling event (April 2022).

Similar to PCE, TCE was detected in all eight of the monitoring wells sampled and at concentrations exceeding the TOGS Standard in four out of the nine wells. Concentrations of TCE ranged from 0.61 µg/L (MW-8) to 114 µg/L (BRMW-2) and the mean median and concentrations were 24.8 µg/L and 5.15 µg/L, respectively. In general, concentrations of TCE in bedrock wells increased slightly, but appear relatively stable, while concentrations overburden well within either decreased or remained at similar levels.

Concentrations of cis-1,2-Dichloroethene (cis-DCE) ranged from non-detect (MW-8 and MW-9) to 117 µg/L (RW-1). Cis-DCE exceeded the TOGS Standard in five of the eight monitoring wells sampled. The mean and median concentrations for cis-DCE were 31.2 µg/L and 8.2 µg/L, respectively. The highest concentrations of daughter products TCE and cis-DCE appear to be localized to the center of the Site near the former drum storage area and MW-1 on 44<sup>th</sup> Road. Overall concentrations of cis-DCE were largely stable within both overburden or bedrock wells during this sampling event.



Overall, concentrations of contaminant of concern PCE and its associated daughter products increased compared to the last sampling event. Several wells saw PCE increases during this event including MW-6 (803 µg/L to 1,690 µg/L) and BRMW-2 (659 to 974 µg/L).

Previously, solvent contamination appeared to be localized to two distinct areas, the bedrock wells in the center of the Site and a separate off-site source affecting overburden near MW-1 on 44<sup>th</sup> Road. Bedrock well contamination in the center of the Site appears relatively stable, and continues to demonstrate evidence of natural attenuation given the relatively higher concentration of cis-1,2-dichloroethene in these wells compared to the other monitoring wells. However, it appears that the suspected off-site overburden source documented at MW-1 the last seven sampling events may have continued to migrate and co-mingled towards the center of the Site explaining the rapid increase in PCE concentrations after nearly a half decade of stability within MW-6. In five years, post-treatment (September 2017 to March 2021), concentrations of PCE within MW-6 (located in the center of the Site) averaged 97.1 µg/L. Since that time the concentration of PCE in MW-6 has increased each subsequent event from 198 µg/L (September 2021), to 803 µg/L (April 2022) and finally 1,690 µg/L (October 2022). FLS believes this is evidence of migration of off-Site source material into the Site. However, despite relative increases of PCE, concentrations remain well below the post-GWTS historical maximum concentration (19,000 µg/L PCE recorded at MW-9 during the September 2014 sampling event).

A second semi-annual groundwater sampling event is scheduled for May 2023 and the results will be reported to NYSDEC in a separate groundwater sampling report. Semi-annual groundwater monitoring will continue in accordance with the approved modified SMP to further assess groundwater quality and the potential for off-Site sources impacting the Site.

#### **4.4 Composite Cover System**

Annual inspections of the composite cover system were conducted as required in the SMP. The annual inspection was conducted on April 28, 2022. No cracks, fissures or other deficiencies were observed in the composite cover system and it is operating as designed and protective of human health. Annual Composite Cover System inspection sheets are included as Appendix C.

The Composite Cover System and SSDS prevent both exposure to soil and exposure to any soil vapor. The slab and foundation walls of the building are in very good condition with no bare soil exposed. The SSDS is operating as designed and prevents any exposure to contaminants. SSDS and Soil Vapor monitoring events were conducted during the reporting period on the following dates:

- July 11, 2022
- January 23, 2023

#### **4.4.1 Semi-Annual SSDS Monitoring Results (July 11, 2022)**

In the July 2022 Operation, Maintenance and Monitoring (OMM) event, Photo-Ionization Detector (PID) concentrations (recorded for each individual SSDS leg as well as the SSDS effluent manifold) ranged from 0.0 to 0.2 parts per million (ppm). SSDS effluent sample results showed low level concentrations for both contaminants of concern, PCE ( $2.440 \mu\text{g}/\text{m}^3$ ) and TCE ( $0.677 \mu\text{g}/\text{m}^3$ ). Several other compounds were also detected in the effluent in low concentrations including toluene ( $8.550 \mu\text{g}/\text{m}^3$ ), hexane ( $5.140 \mu\text{g}/\text{m}^3$ ), xylenes (total,  $4.060 \mu\text{g}/\text{m}^3$ ), benzene ( $3.110 \mu\text{g}/\text{m}^3$ ), and 2-butanone ( $2.870 \mu\text{g}/\text{m}^3$ ). Table 5 shows all SSDS Effluent Vapor Results during the reporting period. The highest sample result concentration observed was acetone ( $55.700 \mu\text{g}/\text{m}^3$ ). The majority of these compounds were detected at similar or lower levels than previous sampling events. Although PCE and TCE were detected at a higher concentration when compared to the previous event (ND, December 2021), they remain below the NYSDOH background guideline levels of PCE in air ( $30 \mu\text{g}/\text{m}^3$ ).

#### **4.4.2 Semi-Annual SSDS Monitoring Results (January 23, 2023)**

In the December 2021 Operation, Maintenance and Monitoring (OMM) event, Photo-Ionization Detector (PID) concentrations (recorded for each individual SSDS leg as well as the SSDS effluent manifold) from 0.0 to 0.2 parts per million (ppm). SSDS effluent sample results showed low level concentrations for both contaminants of concern, PCE ( $2.350 \mu\text{g}/\text{m}^3$ ) and TCE ( $0.414 \mu\text{g}/\text{m}^3$ ). Several other compounds were also detected in the effluent in low concentrations including cyclohexane ( $9.150 \mu\text{g}/\text{m}^3$ ), acetone ( $6.590 \mu\text{g}/\text{m}^3$ ), toluene ( $5.010 \mu\text{g}/\text{m}^3$ ), hexane ( $2.580 \mu\text{g}/\text{m}^3$ ), xylenes (total,  $2.510 \mu\text{g}/\text{m}^3$ ), benzene ( $1.050 \mu\text{g}/\text{m}^3$ ), and 2-butanone ( $0.909 \mu\text{g}/\text{m}^3$ ). Table 5 shows

all SSDS Effluent Vapor Results during the reporting period. The highest sample result concentration observed was cyclohexane ( $9.150 \mu\text{g}/\text{m}^3$ ). The majority of these compounds were detected at similar or lower levels than previous sampling events. PCE and TCE were detected at a lower concentration when compared to the previous event (July 2022) and remain below the NYSDOH background guideline levels of PCE in air ( $30 \mu\text{g}/\text{m}^3$ ).

#### **4.5 Indoor Air**

Indoor air monitoring in the School is performed to verify the SSDS is functioning as designed and remains protective of human health in indoor air. According to the SMP, sampling is conducted by the NYC Department of Education (NYCDOE) to address the concerns of the community. The indoor air sampling results are reviewed by NYSDEC and NYSDOH.

##### **4.5.1 Indoor Air Results**

FLS has requested a copy of the indoor air sampling results from the NYC School Construction Authority to be included as a part of this report. However, at the time of submittal for this PRR, FLS was informed that indoor air sampling was not conducted during the reporting period. A copy of this correspondence is included in Appendix E.

#### **4.6 Monitoring Deficiencies**

Daily monitoring inspection sheets were not been provided by school maintenance staff. However, the Site is equipped with a Sensaphone telemetry system that constantly monitors system operations and alerts the appropriate parties in the case of an alarm.

#### **4.7 Conclusions and Recommendations for Changes**

No changes are recommended at this time.

## 5.0 OPERATION AND MAINTENANCE PLAN COMPLIANCE

### 5.1 Components of the O&M Plan

#### 5.1.1 Sub-Slab Depressurization System

The active SSDS is designed to run continuously and without an operator. All manufacturers' product data, manuals, and drawings related to the active SSDS components are maintained on-site and available for reference in the event that troubleshooting, adjustments or repairs are necessary.

Routine equipment maintenance and inspection will be conducted on the active SSDS in accordance with the manufacturers' products requirements/recommendations. Semi-annually, a qualified environmental professional will perform an inspection consisting of the following:

- Take vacuum, flow rate, temperature, and photoionization detector (PID) readings from each leg of the SSDS.
- Take an effluent vapor sample and analyze for TO-15.
- Visual inspection of all accessible piping, gauges, fan, and other components. Any faulty components will be repaired or replaced. If there is any indication that the fan requires repair, it must be returned to the factory for repair as it has no user-serviceable parts.
- Determine if any HVAC modifications were made that may affect the operation of the active SSDS.

In the event that the warning device is triggered, which may indicate reduced effectiveness at the operating conditions, or the system becomes damaged the following actions will be taken:

- A qualified professional will inspect the system to determine the cause of damage or reduced performance; and
- after making any repairs, the system will be restarted as described in the SMP.

## **5.2 Summary of O&M Completed**

### **5.2.1 Sub-Slab Depressurization System**

As required, FLS personnel conducted an inspection and maintenance of the SSDS on July 11, 2022 and January 23, 2023. SSDS OMM Forms are included in Appendix F. The extraction blower requires little or no maintenance to perform as designed. Maintenance activities completed include keeping the filters clean and the moisture separator empty. Flow rate, temperature, and photoionization detector (PID) readings were taken from each leg of the SSDS as well. A vapor sample was collected from the effluent side of the SSDS and analyzed for VOCS by United States Environmental Protection Agency (USEPA) Method TO-15.

As discussed previously, on October 28, 2022 FLS was on-site to conduct a semi-annual groundwater sampling event. Staff observed that a joint connection between the SSDS effluent header and the effluent stack had disconnected and the SSDS was emitting clean effluent (0.0 ppm confirmed with PID instrumentation) into the adjacent alley space with 21-21 44<sup>th</sup> Drive. There were no visible air intakes within the vicinity of the disconnected effluent. The SSDS was subsequently shut down and NYSDEC notified. On November 1, 2022 FLS and a maintenance contractor were able to mobilize to the Site and reconnect the effluent SSDS piping. The SSDS was subsequently restarted and air flow was confirmed at the exhaust point on the roof. NYSDEC and NYSDOH were notified of subsequent repairs and NYSDEC informed FLS that a Corrective Measures Report would not be necessary.

#### **5.2.1.1 July 2022 SSDS Effluent Sampling Results**

A vapor sample was collected from the SSDS effluent according to the sampling schedule as presented in the Site Management Plan Modification Summary dated December 2018. Analytical results from this event are summarized in section 4.4.1. The majority of these compounds were detected at similar or lower levels than previous sampling events. PCE and TCE were detected at a higher concentration when compared to the previous event (December 2021) but remain below the NYSDOH background guideline levels of PCE in air (30 µg/m<sup>3</sup>). The active operation of the SSDS combined with the existing soil vapor barrier mitigates the potential for any soil vapor intrusion into the building and the engineering controls in place remain protective of human health.

Table 5 summarizes the soil vapor concentrations for the effluent air samples collected from the SSDS. Copies of the laboratory analytical reports are included in Appendix G.

#### 5.2.1.2 January 2023 SSDS Effluent Sampling Results

A vapor sample was collected from the SSDS effluent according to the sampling schedule as presented in the Site Management Plan Modification Summary dated December 2018. Analytical results from this event are summarized in 4.4.2. PCE and TCE were detected at a lower concentration when compared to the previous event (July 2022), and remain below the NYSDOH background guideline levels of PCE in air ( $30 \mu\text{g}/\text{m}^3$ ). The active operation of the SSDS combined with the existing soil vapor barrier mitigates the potential for any soil vapor intrusion into the building and the engineering controls in place remain protective of human health. Table 5 summarizes the soil vapor concentrations for the effluent air samples collected from the SSDS. Copies of the laboratory analytical reports are included in Appendix G.

### **5.3 Evaluation of Remedial Systems**

#### 5.3.1 Sub-Slab Depressurization System

Based on the flow rate, temperature, and photoionization detector (PID) readings taken from each leg of the SSDS during semi-annual inspections, the SSDS is functioning as required. The most recent TO-15 sample results showed that contaminants of concern, TCE and PCE, had concentrations below the detection limit.

### **5.4 Monitoring Well Abandonment**

No monitoring wells were abandoned during this reporting period.

### **5.5 Waste Disposal**

Two drums containing groundwater sampling purge water were disposed of in January 2023. The purge water was generated as part of the groundwater monitoring program. A copy of the final waste manifest is included in Appendix H.

### **5.6 O&M Deficiencies**

There were no deficiencies in complying with the O&M plan during this PRR reporting period for any of the ECs except those mentioned in section 3.3.2

## **6.0 CONCLUSIONS AND RECOMMENDATIONS**

### **6.1 Compliance with the SMP**

Following the implementation of the onsite EC/ICs, the Site has been maintained under a regularly scheduled Operation, Maintenance and Monitoring (OMM) program as outlined in the approved SMP and NYSDEC-approved modifications. The current OMM program consists of:

- Daily Site walkthroughs completed by onsite custodial personnel (Inspection forms not provided by school staff);
- semi-annual treatment system monitoring of the SSDS;
- semi-annual groundwater sampling program; and
- Annual inspection of the Site Composite Cover to ensure it is functioning as designed.

Based on the evaluation of the monitoring and OMM data, FLS concludes that all of the EC/ICs are in place and remained effective during the reporting period.

### **6.2 Performance and Effectiveness of the Remedy**

The remedy has been effective in reaching and maintaining its stated objectives. The contaminated soil was excavated per the approved RAWP and the soil cleanup goals were attained in most instances. The composite cover system and SSDS provide complete protection against remaining contaminant and eliminate any exposure pathway. Both the ICs and ECs are in-place mechanisms designed as permanent protections against exposure to remaining contaminant. Semi-annual groundwater monitoring following removal of the contaminant mass has demonstrated significant and sustained decreases in groundwater concentrations of contaminants.

### **6.3 Future PRR Submittals**

The next PRR is due no later than May 3, 2024 and will cover the reporting period April 3, 2023 to April 3, 2024.



# Tables

Table 4  
Volatile Organic Compounds in Groundwater  
Periodic Review Report  
Info Tech High School, VCP Site No. V00366-

[illegible]

Notes:  
Results reported in micrograms per liter (ug/L)  
Exceedances bolded and highlighted in gray  
ND = Not detected above laboratory reporting limit  
NC = No Criterion  
J = Estimated Value  
Class GA Value = Class GA Standards and Guidance Values (NYSED's June 1998 Division of Water Technical and Operational Guidance Series)  
NS = Not Sampled

[illegible]

Notes:  
Results reported in micrograms per liter (ug/L)  
Exceedances bolded and highlighted in gray  
ND = Not detected above laboratory reporting limit  
NC = No Criterion  
J = Estimated Value



Table 5 - 2023 SSDS Effluent Vapor Results  
Information Technology High School  
Voluntary Cleanup Program  
VCP #V00366-2

| Sample ID<br>York ID<br>Sampling Date<br>Client Matrix |             | SSDS Effluent<br>22G0374-01<br>7/11/2022 10:45:00 AM<br>Soil Vapor |   | EFF-1<br>23A1083-01<br>1/23/2023 9:54:00 AM<br>Soil Vapor |    |
|--------------------------------------------------------|-------------|--------------------------------------------------------------------|---|-----------------------------------------------------------|----|
| Compound                                               | CAS Number  | Result                                                             | Q | Result                                                    | Q  |
| VOA, TO15 MASTER                                       |             | ug/m3                                                              |   | ug/m3                                                     |    |
| Dilution Factor                                        |             | 1.8                                                                |   | 1.927                                                     |    |
| 1,1,1,2-Tetrachloroethane                              | 630-20-6    | 1.240                                                              | U | 1.320                                                     | U  |
| 1,1,1-Trichloroethane                                  | 71-55-6     | 0.982                                                              | U | 1.050                                                     | U  |
| 1,1,2,2-Tetrachloroethane                              | 79-34-5     | 1.240                                                              | U | 1.320                                                     | U  |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)      | 76-13-1     | 1.380                                                              | U | 1.480                                                     | U  |
| 1,1,2-Trichloroethane                                  | 79-00-5     | 0.982                                                              | U | 1.050                                                     | U  |
| 1,1-Dichloroethane                                     | 75-34-3     | 0.729                                                              | U | 0.780                                                     | U  |
| 1,1-Dichloroethylene                                   | 75-35-4     | 0.357                                                              | U | 0.382                                                     | U  |
| 1,2,4-Trichlorobenzene                                 | 120-82-1    | 1.600                                                              | D | 2.860                                                     | U  |
| 1,2,4-Trimethylbenzene                                 | 95-63-6     | 2.120                                                              | D | 0.947                                                     | U  |
| 1,2-Dibromoethane                                      | 106-93-4    | 1.380                                                              | U | 1.480                                                     | U  |
| 1,2-Dichlorobenzene                                    | 95-50-1     | 1.080                                                              | U | 1.160                                                     | U  |
| 1,2-Dichloroethane                                     | 107-06-2    | 0.728                                                              | U | 0.780                                                     | U  |
| 1,2-Dichloropropane                                    | 78-87-5     | 0.832                                                              | U | 0.890                                                     | U  |
| 1,2-Dichlorotetrafluoroethane                          | 76-14-2     | 1.260                                                              | U | 1.350                                                     | U  |
| 1,3,5-Trimethylbenzene                                 | 108-67-8    | 0.885                                                              | U | 0.947                                                     | U  |
| 1,3-Butadiene                                          | 106-99-0    | 1.190                                                              | U | 1.280                                                     | U  |
| 1,3-Dichlorobenzene                                    | 541-73-1    | 1.080                                                              | U | 1.160                                                     | U  |
| 1,3-Dichloropropane                                    | 142-28-9    | 0.832                                                              | U | 0.891                                                     | U  |
| 1,4-Dichlorobenzene                                    | 106-46-7    | 1.080                                                              | U | 1.160                                                     | U  |
| 1,4-Dioxane                                            | 123-91-1    | 1.300                                                              | U | 1.390                                                     | U  |
| 2-Butanone                                             | 78-93-3     | 2.870                                                              | D | 0.909                                                     | D  |
| 2-Hexanone                                             | 591-78-6    | 1.470                                                              | U | 1.580                                                     | U  |
| 3-Chloropropene                                        | 107-05-1    | 2.820                                                              | U | 3.020                                                     | U  |
| 4-Methyl-2-pentanone                                   | 108-10-1    | 0.737                                                              | U | 0.789                                                     | U  |
| Acetone                                                | 67-64-1     | 55.700                                                             | D | 6.590                                                     | D  |
| Acrylonitrile                                          | 107-13-1    | 0.391                                                              | U | 0.418                                                     | U  |
| Benzene                                                | 71-43-2     | 3.110                                                              | D | 1.050                                                     | D  |
| Benzyl chloride                                        | 100-44-7    | 0.932                                                              | U | 2                                                         | U  |
| Bromodichloromethane                                   | 75-27-4     | 1.210                                                              | U | 1.290                                                     | U  |
| Bromoform                                              | 75-25-2     | 1.860                                                              | U | 1.990                                                     | U  |
| Bromomethane                                           | 74-83-9     | 0.699                                                              | U | 0.748                                                     | U  |
| Carbon disulfide                                       | 75-15-0     | 0.561                                                              | U | 0.600                                                     | U  |
| Carbon tetrachloride                                   | 56-23-5     | 0.340                                                              | D | 0.364                                                     | D  |
| Chlorobenzene                                          | 108-90-7    | 0.829                                                              | U | 0.887                                                     | U  |
| Chloroethane                                           | 75-00-3     | 0.475                                                              | U | 0.508                                                     | U  |
| Chloroform                                             | 67-66-3     | 0.879                                                              | U | 0.941                                                     | U  |
| Chloromethane                                          | 74-87-3     | 0.669                                                              | D | 0.836                                                     | D  |
| cis-1,2-Dichloroethylene                               | 156-59-2    | 0.357                                                              | U | 0.382                                                     | U  |
| cis-1,3-Dichloropropylene                              | 10061-01-5  | 0.817                                                              | U | 0.875                                                     | U  |
| Cyclohexane                                            | 110-82-7    | 2.420                                                              | D | 9.150                                                     | D  |
| Dibromochloromethane                                   | 124-48-1    | 1.530                                                              | U | 1.640                                                     | U  |
| Dichlorodifluoromethane                                | 75-71-8     | 2.490                                                              | D | 2.950                                                     | D  |
| Ethyl acetate                                          | 141-78-6    | 1.430                                                              | D | 1.390                                                     | U  |
| Ethyl Benzene                                          | 100-41-4    | 1.720                                                              | D | 1.090                                                     | D  |
| Hexachlorobutadiene                                    | 87-68-3     | 1.920                                                              | U | 2.060                                                     | U  |
| Isopropanol                                            | 67-63-0     | 3.720                                                              | D | 6.020                                                     | BD |
| Methyl Methacrylate                                    | 80-62-6     | 0.737                                                              | U | 0.789                                                     | U  |
| Methyl tert-butyl ether (MTBE)                         | 1634-04-4   | 0.649                                                              | U | 0.695                                                     | U  |
| Methylene chloride                                     | 75-09-2     | 1.250                                                              | U | 1.870                                                     | D  |
| n-Heptane                                              | 142-82-5    | 3.020                                                              | D | 1.420                                                     | D  |
| n-Hexane                                               | 110-54-3    | 5.140                                                              | D | 2.580                                                     | D  |
| o-Xylene                                               | 95-47-6     | 1.640                                                              | D | 0.920                                                     | D  |
| p- & m- Xylenes                                        | 179601-23-1 | 4.060                                                              | D | 2.510                                                     | D  |
| p-Ethyltoluene                                         | 622-96-8    | 1.500                                                              | D | 0.947                                                     | U  |
| Propylene                                              | 115-07-1    | 2.540                                                              | D | 0.332                                                     | U  |
| Styrene                                                | 100-42-5    | 0.767                                                              | U | 0.821                                                     | U  |
| Tetrachloroethylene                                    | 127-18-4    | 2.440                                                              | D | 2.350                                                     | D  |
| Tetrahydrofuran                                        | 109-99-9    | 1.430                                                              | D | 1.140                                                     | U  |
| Toluene                                                | 108-88-3    | 8.550                                                              | D | 5.010                                                     | D  |
| trans-1,2-Dichloroethylene                             | 156-60-5    | 0.714                                                              | U | 0.764                                                     | U  |
| trans-1,3-Dichloropropylene                            | 10061-02-6  | 0.817                                                              | U | 0.875                                                     | U  |
| Trichloroethylene                                      | 79-01-6     | 0.677                                                              | D | 0.414                                                     | D  |
| Trichlorofluoromethane (Freon 11)                      | 75-69-4     | 1.420                                                              | D | 1.190                                                     | D  |
| Vinyl acetate                                          | 108-05-4    | 0.634                                                              | U | 0.679                                                     | U  |
| Vinyl bromide                                          | 593-60-2    | 0.787                                                              | U | 0.843                                                     | U  |
| Vinyl Chloride                                         | 75-01-4     | 0.230                                                              | U | 0.246                                                     | U  |

**NOTES:**

Any Regulatory Exceedences are color coded by Regulation

**Q is the Qualifier Column with definitions as follows:**

D=result is from an analysis that required a dilution

J=analyte detected at or above the MDL (method detection limit) but below the RL (Reporting Limit) - data is estimated

U=analyte not detected at or above the level indicated

B=analyte found in the analysis batch blank

E=result is estimated and cannot be accurately reported due to levels encountered or interferences

P=this flag is used for pesticide and PCB (Aroclor) target compounds when there is a % difference for detected concentrations that exceed method dictated limits between the two

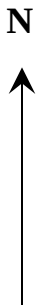
NT=this indicates the analyte was not a target for this sample

~this indicates that no regulatory limit has been established for this analyte

**DISCLAIMER:**

York Analytical Laboratories, Inc. is providing this information as a convenience to you. York makes no representations or warranties that these data are accurate, complete or represent the latest regulatory authority limits or analytes. York is not responsible for any errors or omissions in these specific regulations. Your use of these data constitute your understanding of these limitations and you agree to hold York harmless from any and all action that may arise from use of said information. As regulations change often, we encourage the user to review the regulatory limits and lists of interest to confirm these data.

# Figures



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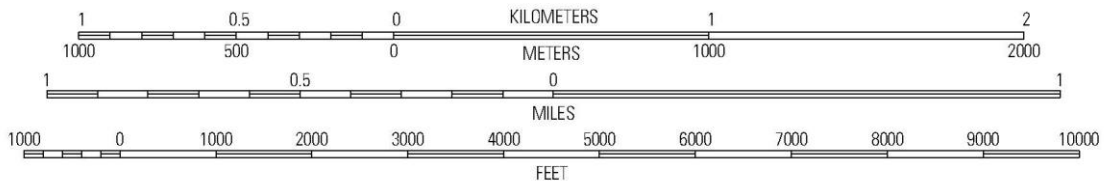


**Figure 1: Site Location**



Site: Information Technology High School  
21-16 44<sup>th</sup> Road  
Long Island City, New York

Client: Bell Realty

158 West 29th Street, New York, NY 10001

FILE: P:\10012 - Bell Realty\006 - Info Tech Highschool\Figures\Site Plan\v3\Site Layout with MWs v2.dwg DATE: 4/27/2021

21ST AVENUE

44TH ROAD



Sewer Line

MW-1

New Stairs

ELEVATOR  
1ST FLOOR

FIRST FLOOR

BASEMENT

BASEMENT  
ELEVATOR

VMP-1

VE-4

TREATMENT SHED

FORMER DRUM STORAGE AREA

VE-3

MW-6

MW-7

BMRW-3

VE-2

VMP-3

VE-1

RW-1

MW-8

MW-9

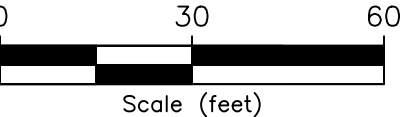
BMRW-2

VMP-2

COURTYARD

BMRW-1

44TH DRIVE



158 West 29th Street, 9th Fl.  
New York, NY 10001

21-16 44th Road  
Long Island City, NY

Figure 2

Site Plan

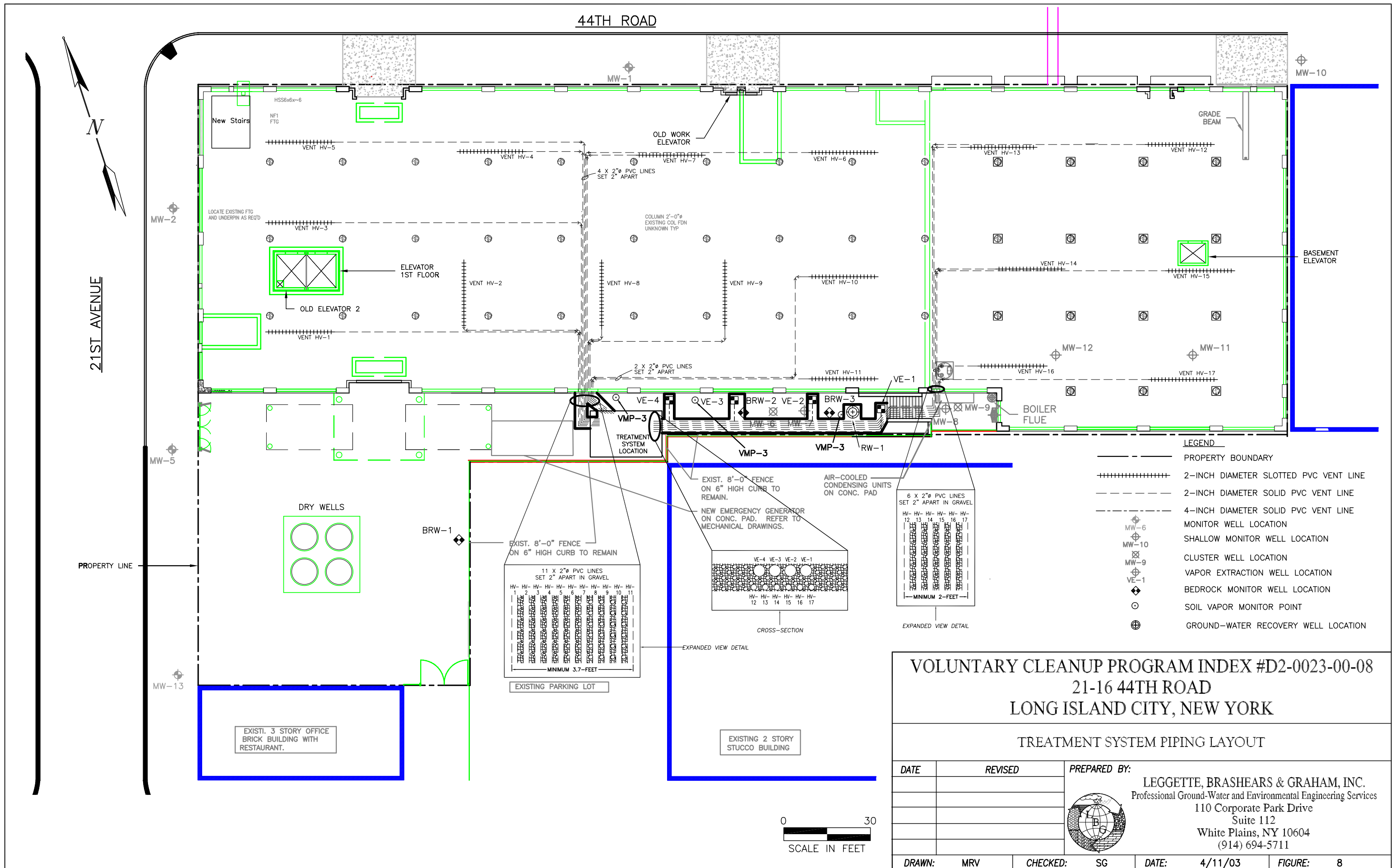
January 2020

Project Number  
10012-006

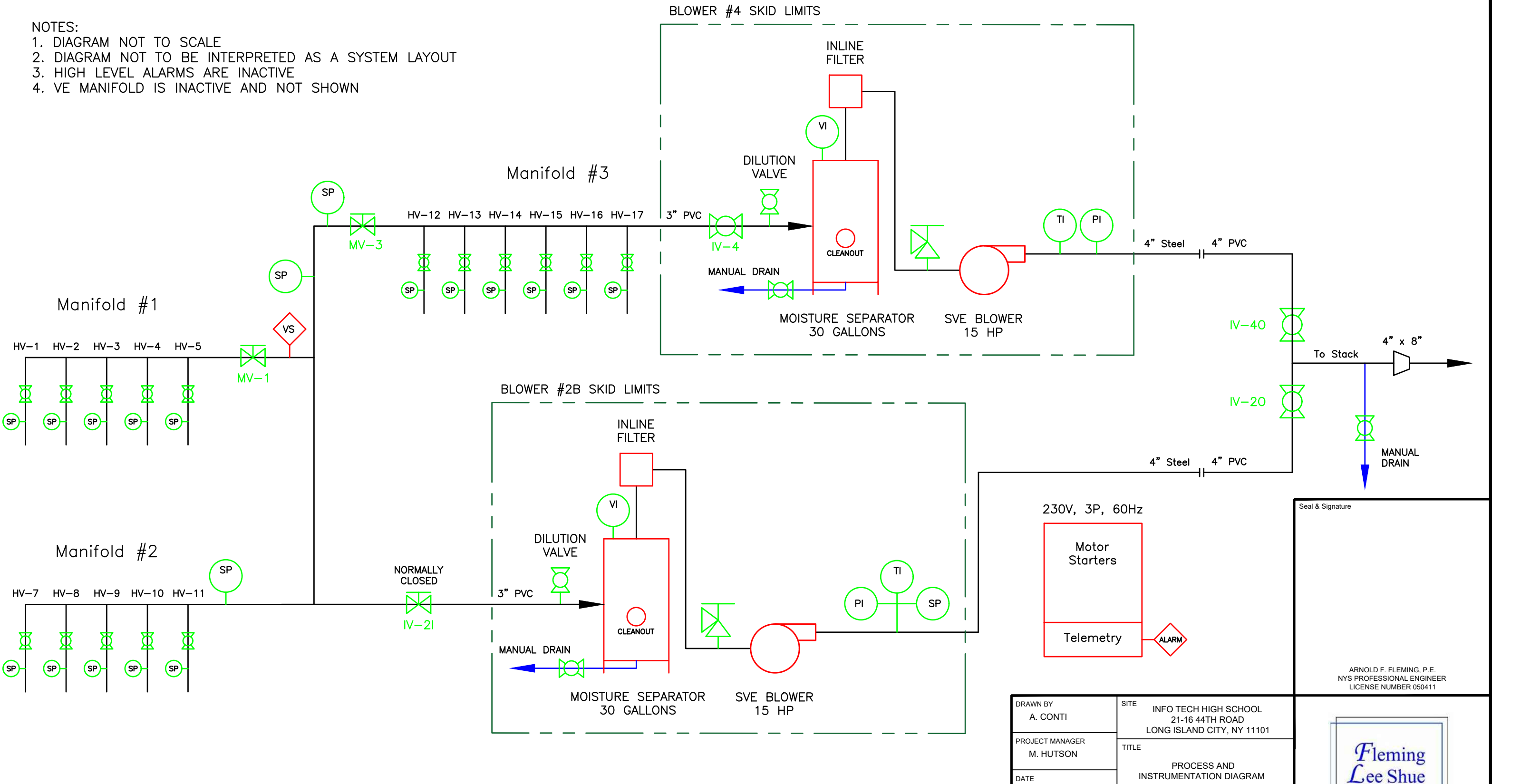
LEGEND

- MW-1 Monitoring well
- MW-9 Shallow monitoring well
- RW-1 Recovery well
- VE-1 Vapor extraction well
- BMRW-1 Bedrock monitoring well
- VMP-1 Soil vapor monitoring points





NOTES:  
1. DIAGRAM NOT TO SCALE  
2. DIAGRAM NOT TO BE INTERPRETED AS A SYSTEM LAYOUT  
3. HIGH LEVEL ALARMS ARE INACTIVE  
4. VE MANIFOLD IS INACTIVE AND NOT SHOWN



ABBREVIATIONS

SP SAMPLING PORT  
PI PRESSURE INDICATOR  
VI VACUUM INDICATOR  
TI TEMPERATURE INDICATOR  
VS VACUUM SWITCH

VALVES

BALL VALVE  
 VACUUM RELIEF VALVE  
 GATE VALVE

LEGEND

PIPE AND CONNECTIONS  
 GAUGE OR VALVE  
 EQUIPMENT  
 REDUCER

|                              |          |                                                                                |     |
|------------------------------|----------|--------------------------------------------------------------------------------|-----|
| DRAWN BY<br>A. CONTI         |          | SITE<br>INFO TECH HIGH SCHOOL<br>21-16 44TH ROAD<br>LONG ISLAND CITY, NY 11101 |     |
| PROJECT MANAGER<br>M. HUTSON |          | TITLE<br><br>PROCESS AND<br>INSTRUMENTATION DIAGRAM                            |     |
| DATE<br>OCTOBER 4, 2018      |          |                                                                                |     |
| REVISIONS                    |          |                                                                                |     |
| NO.                          | DATE     | DESCRIPTION                                                                    | BY  |
| 1                            | 1/7/2019 | UPDATE AS BUILT                                                                | BJH |
|                              |          |                                                                                |     |
|                              |          |                                                                                |     |
| APPROVED                     |          |                                                                                |     |
| BY _____                     |          |                                                                                |     |

Seal & Signature

ARNOLD F. FLEMING, P.E.  
NYS PROFESSIONAL ENGINEER  
LICENSE NUMBER 050411

ARNOLD F. FLEMING, P.E.  
158 WEST 29TH STREET, 9TH FL.  
NEW YORK, NY 10001

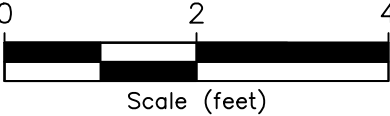
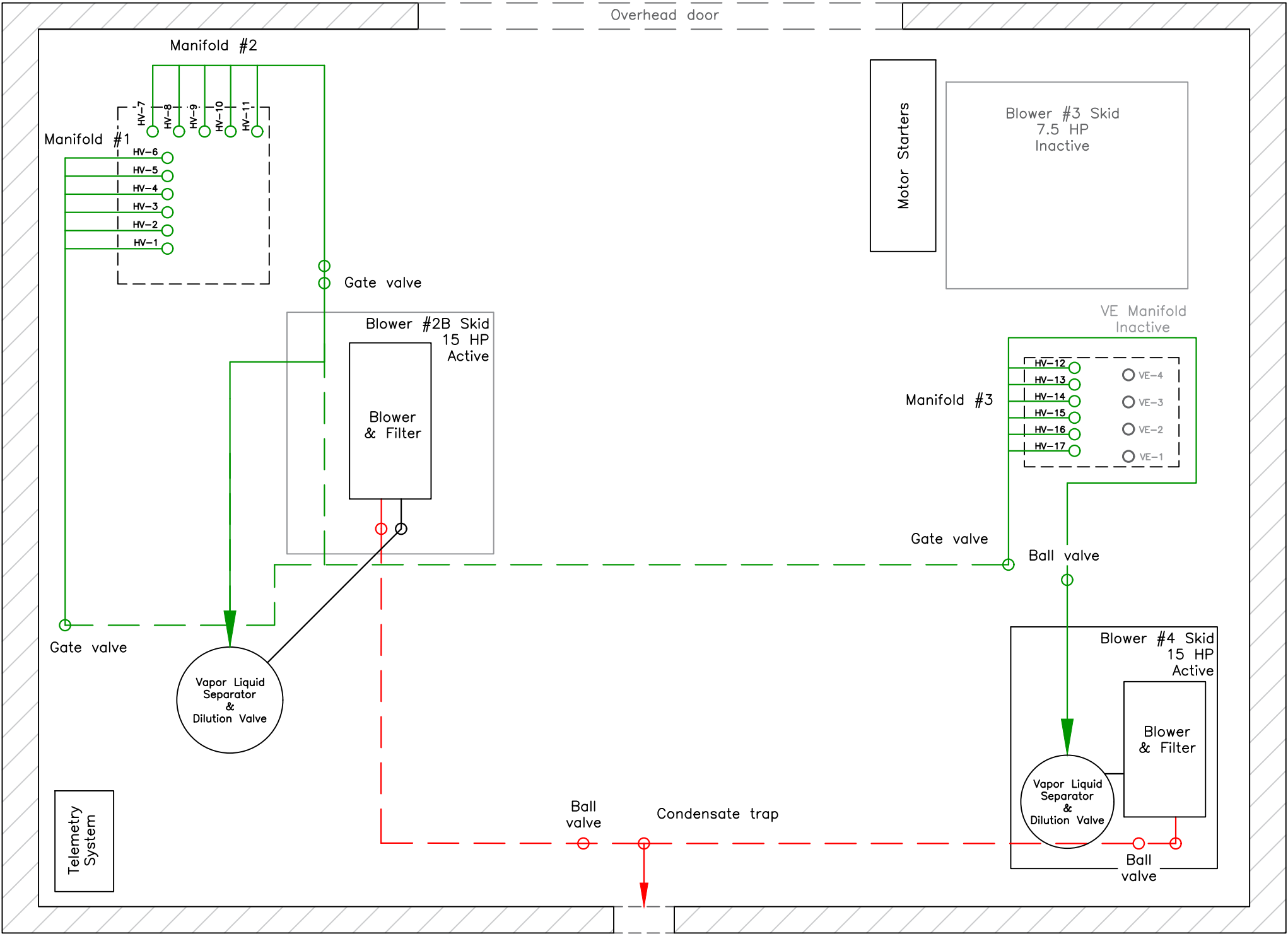
|                |                |        |
|----------------|----------------|--------|
| PROJECT NUMBER | DRAWING NUMBER | PAGE   |
| 10012-001      | 1              | 1 OF 1 |

FILE: P:\10012 - Bell Reedy\006 - Info Tech Highschool\Figures\SSDS\2018 Shed Layout As-Built\SSDS As-Built Shed Layout UPDATED 9-8-2020 BJH (updated to FE).dwg DATE: 4/27/2021

High School



Arnold F. Fleming, P.E.  
158 West 29th Street, 9th Fl.  
New York, NY 10001



Notes:  
- Scale and dimensions are approximate  
- Each leg (HV-1 through HV-17) has a sample port

| Revisions |        |                      |
|-----------|--------|----------------------|
| No.       | Date   | Description          |
| 1         | 1/7/19 | ADD TELEMETRY SYSTEM |
|           |        |                      |
|           |        |                      |
|           |        |                      |
|           |        |                      |

Approved  
  
BY \_\_\_\_\_

Title  
**SSDS Layout  
As-Built**

Site Information Technology High School  
21-16 44th Road  
Long Island City, NY

- Legend
- Active vacuum pipe (dashed where suspended)
  - Active exhaust pipe (dashed where suspended)
  - Fitting or vertical pipe

Seal & Signature

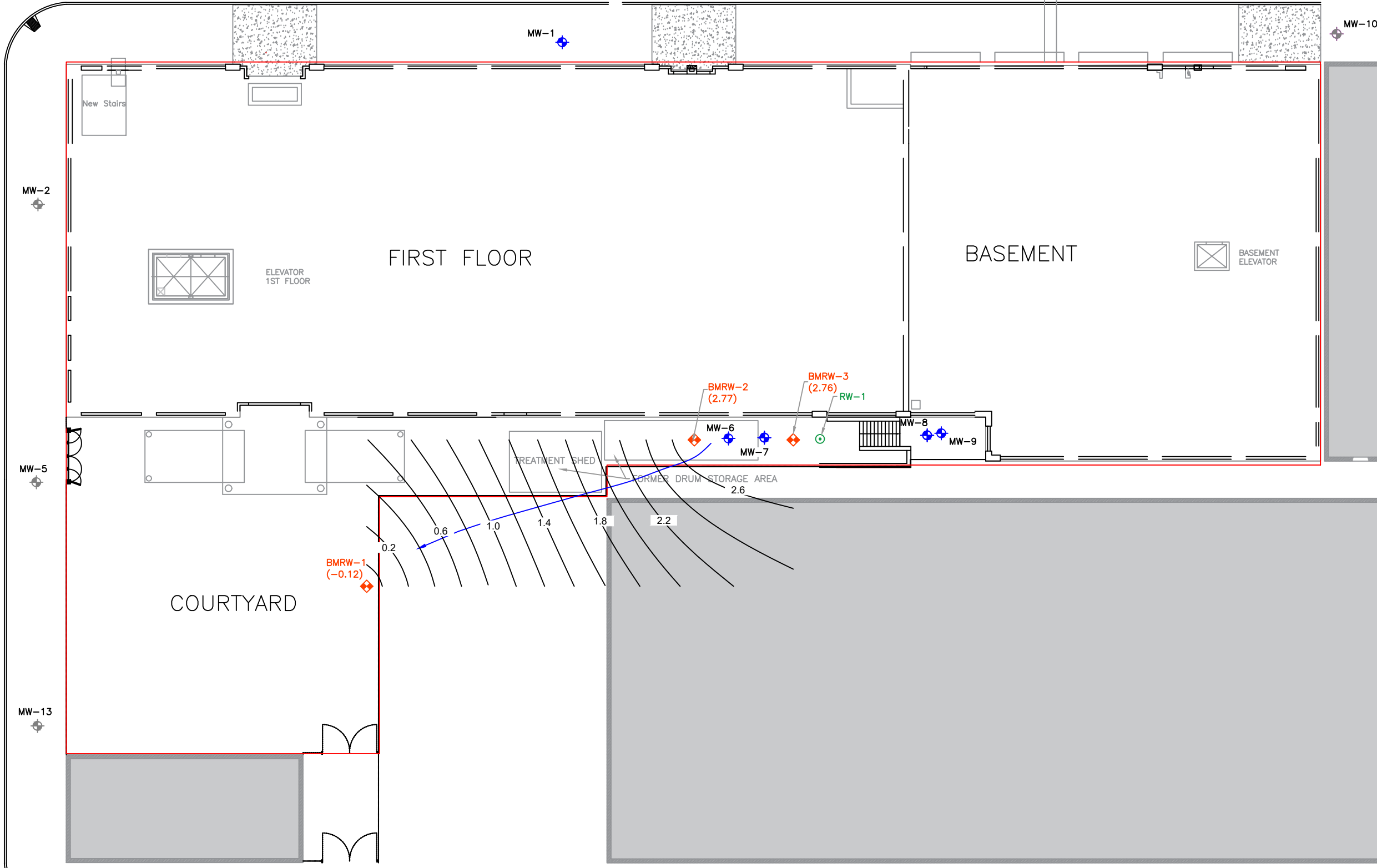
ARNOLD F. FLEMING, P.E.  
NYS PROFESSIONAL ENGINEER  
LICENSE NUMBER 050411

|                            |                     |                            |  |
|----------------------------|---------------------|----------------------------|--|
| Date<br>September 17, 2018 |                     | Project Number<br>10012-06 |  |
| Drawn By<br>A. Conti       | Drawing Number<br>1 | Page<br>1 of 1             |  |

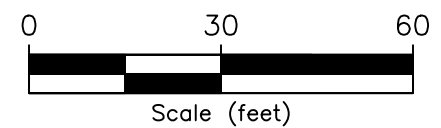
FILE: P:\10012 - Bell Realty\006 - Info Tech Highschool\Figures\GW Sampling\2022Q4\Bedrock Contour Map - October 2022.dwg DATE: 10/31/2022

21ST AVENUE

44TH ROAD



44TH DRIVE



158 West 29th Street, 9th Fl.  
New York, NY 10001

21-16 44th Road  
Long Island City, NY

Figure 6

# Bedrock Groundwater Contour

October 2022

Project Number  
10012-006

## LEGEND

- Monitoring well  
MW-1
- Recovery well  
RW-1
- Bedrock monitoring well  
BMRW-1
- Abandoned monitoring well  
MW-2

Notes: Current sampling plan includes recovery and bedrock monitoring wells.

FILE: P:\10012 - Bell Realty\006 - Info Tech Highschool\Figures\GW Sampling\2022Q4\7 - Site Plan with GW Results.dwg DATE: 11/22/2022

21ST AVENUE

44TH ROAD



Sewer Line

MW-1

New Stairs

ELEVATOR  
1ST FLOOR

FIRST FLOOR

BASEMENT

BASEMENT  
ELEVATOR

| Compound               | BRMW-3 |
|------------------------|--------|
| cis-1,2-Dichloroethene | 12.4   |
| Tetrachloroethene      | 353    |
| Trichloroethene        | 61.2   |

| Compound               | RW-1 |
|------------------------|------|
| cis-1,2-Dichloroethene | 177  |
| Tetrachloroethene      | 45.6 |
| Trichloroethene        | 2.1  |

| Compound               | MW-6  |
|------------------------|-------|
| cis-1,2-Dichloroethene | 9.5 J |
| Tetrachloroethene      | 1690  |
| Trichloroethene        | 10.1  |

| Compound               | MW-8   |
|------------------------|--------|
| cis-1,2-Dichloroethene | ND     |
| Tetrachloroethene      | 14.9   |
| Trichloroethene        | 0.61 J |

TREATMENT SHED

FORMER DRUM STORAGE AREA

| Compound               | BRMW-2 |
|------------------------|--------|
| cis-1,2-Dichloroethene | 20.1   |
| Tetrachloroethene      | 974    |
| Trichloroethene        | 114    |

| Compound               | MW-7 |
|------------------------|------|
| cis-1,2-Dichloroethene | 1    |
| Tetrachloroethene      | 165  |
| Trichloroethene        | 1.1  |

| Compound               | MW-9 |
|------------------------|------|
| cis-1,2-Dichloroethene | ND   |
| Tetrachloroethene      | 25.7 |
| Trichloroethene        | 1.4  |

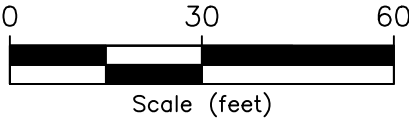
COURTYARD

| Compound               | BRMW-1 |
|------------------------|--------|
| cis-1,2-Dichloroethene | 8.2    |
| Tetrachloroethene      | 76.2   |
| Trichloroethene        | 8.2    |

| Compound               | Class GA Standard |
|------------------------|-------------------|
| cis-1,2-Dichloroethene | 5                 |
| Tetrachloroethene      | 5                 |
| Trichloroethene        | 5                 |

Samples collected 10/28/2022  
MW-1 dry - not sampled this event.  
Results reported in micrograms per liter (ug/L)  
ND = Not detected above laboratory reporting limit  
J = Estimated Value  
Class GA Value = Class GA Standards and Guidance Values  
(NYSDEC's June 1998 *Division of Water Technical and Operational Guidance Series*)

44TH DRIVE



158 West 29th Street, 9th Fl.  
New York, NY 10001

21-16 44th Road  
Long Island City, NY

Figure 7

VOC  
Concentrations in  
Groundwater

October 2022

Project Number  
10012-006

LEGEND

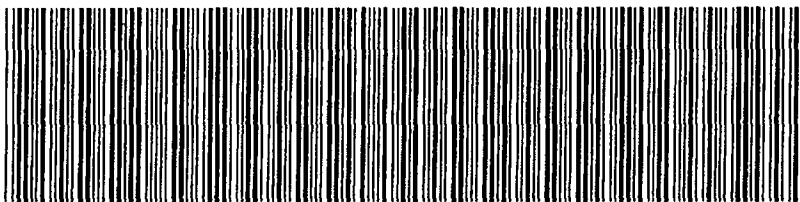
- MW-1 Monitoring well
- RW-1 Recovery well
- BRMW-1 Bedrock monitoring well

# **Appendix A**

## **Environmental Easement & Metes and Bounds**

**NYC DEPARTMENT OF FINANCE  
OFFICE OF THE CITY REGISTER**

This page is part of the instrument. The City Register will rely on the information provided by you on this page for purposes of indexing this instrument. The information on this page will control for indexing purposes in the event of any conflict with the rest of the document.



2003071100522001001E387B

**RECORDING AND ENDORSEMENT COVER PAGE**

**PAGE 1 OF 12**

**Document ID: 2003071100522001**

**Document Date: 07-10-2003**

**Preparation Date: 07-11-2003**

**Document Type: DECLARATION**

**Document Page Count: 11**

**PRESENTER:**

DONALD LUHRS C/O CHICAGO TITLE  
330 OLD COUNTRY RD  
MINEOLA, NY 11501  
516-535-5209

**RETURN TO:**

SIVE, PAGET & RIESEL, PC  
460 PARK AVENUE  
NEW YORK, NY 10022-1906  
212-421-2150

**PROPERTY DATA**

|                             |              |               |             |                |
|-----------------------------|--------------|---------------|-------------|----------------|
| <b>Borough</b>              | <b>Block</b> | <b>Lot</b>    | <b>Unit</b> | <b>Address</b> |
| QUEENS                      | 438          | 23 Entire Lot |             | 4441 21 STREET |
| <b>Property Type: OTHER</b> |              |               |             |                |
| <b>Borough</b>              | <b>Block</b> | <b>Lot</b>    | <b>Unit</b> | <b>Address</b> |
| QUEENS                      | 438          | 26 Entire Lot |             | 21-02 44 ROAD  |
| <b>Property Type: OTHER</b> |              |               |             |                |

**CROSS REFERENCE DATA**

CRFN \_\_\_\_\_ or Document ID \_\_\_\_\_ or Year \_\_\_\_\_ Reel \_\_\_\_\_ Page \_\_\_\_\_ or File Number \_\_\_\_\_

**PARTIES**

**PARTY 1:**

CDI 21ST LIC, LLC  
525 NORTHERN BOULEVARD, SUITE 300  
GREAT NECK, NY 11021

**FEES AND TAXES**

|                          |    |      |                                |             |
|--------------------------|----|------|--------------------------------|-------------|
| <b>Mortgage</b>          |    |      | Recording Fee: \$              | 95.00       |
| Mortgage Amount:         | \$ | 0.00 | Affidavit Fee: \$              | 0.00        |
| Taxable Mortgage Amount: | \$ | 0.00 | NYC Real Property Transfer Tax | Filing Fee: |
| Exemption:               |    |      | \$                             | 0.00        |
| <b>TAXES:</b>            |    |      | NYS Real Estate Transfer Tax:  |             |
| County (Basic):          | \$ | 0.00 | \$                             | 0.00        |
| City (Additional):       | \$ | 0.00 |                                |             |
| Spec (Additional):       | \$ | 0.00 |                                |             |
| TASF:                    | \$ | 0.00 |                                |             |
| MTA:                     | \$ | 0.00 |                                |             |
| NYCTA:                   | \$ | 0.00 |                                |             |
| <b>TOTAL:</b>            | \$ | 0.00 |                                |             |

**RECORDED OR FILED IN THE OFFICE  
OF THE CITY REGISTER OF THE  
CITY OF NEW YORK**

Recorded/Filed 07-11-2003 15:00

City Register File No. (CRFN):

2003000225886



*John J. Lawrence*  
City Register Official Signature



**DECLARATION**

THIS DECLARATION is made this 10<sup>th</sup> day of July, 2003, by CDI 21<sup>st</sup> LLC, LLC, whose address is 525 Northern Boulevard, Suite 300, Great Neck, New York, 11021, hereinafter called the "DECLARANT".

**WITNESSETH**

WHEREAS, the DECLARANT is the owner of certain real property located in Queens County, City and State of New York, Tax Block 438, Lot Nos. 23 and 26, which real property is described in the Deed attached hereto as "Attachment A" and which real property is hereinafter called the "SUBJECT PROPERTY"; and

WHEREAS, a Voluntary Cleanup Agreement ("VCA") #D2-0023-00-08 is on file with the New York State Department of Environmental Conservation (the "Department"), and the terms used therein shall have the same meaning as used herein; and

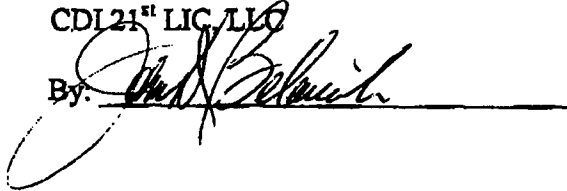
WHEREAS, DECLARANT represents and warrants that no restriction of record on the use of the SUBJECT PROPERTY nor any present or presently existing future estate or interest in the SUBJECT PROPERTY nor any lien, obligation, covenant, limitation or encumbrance of any kind precludes, presently or potentially, the imposition of the restrictions, covenants, obligations, easements and agreements of the instant Declaration or the development of the SUBJECT PROPERTY in accordance therewith.

NOW, THEREFORE, DECLARANT does hereby declare that the SUBJECT PROPERTY shall only be held, sold, conveyed and occupied subject to the following restrictions, covenants, and obligations and agreements:

1. The instant Declaration may be amended, modified or canceled only with the express written approval and consent of the Commissioner of the Department or the head of the agency succeeding to its jurisdiction. No other approval or consent shall be required or accepted from any public body, private person, or legal entity of any kind.
2. The SUBJECT PROPERTY shall not be used for purposes other than the Contemplated Use set forth in the letter modifying the VCA, annexed hereto as Attachment "B", without the express written waiver of such prohibition by the Department or any agency succeeding to its jurisdiction.
3. Groundwater underlying the SUBJECT PROPERTY shall not be used without treatment rendering it safe for drinking water or industrial purposes, as appropriate, unless the user first obtains permission to do so from the Department, or if at such time the Department shall no longer exist, any New York State department, bureau, or other entity replacing the Department;



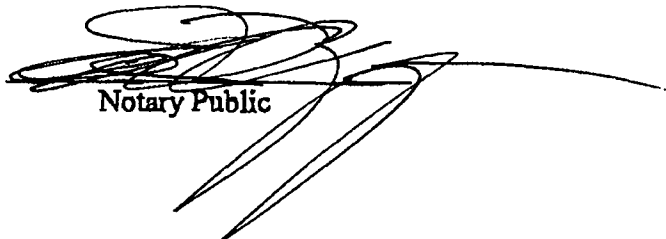
4. Soil on-site shall not be excavated without a health and safety plan previously approved by the Department and the New York State Department of Health ("NYSDOH") or without prior notification to the Department and NYSDOH. In the event of an emergency, such notification will be made as soon as practicable.
5. An annual certification shall be filed with the Department certifying that this deed restriction has not been violated;
6. DECLARANT and its successors and assigns shall continue in full force and effect such engineering and institutional controls as the Department has deemed appropriate in accordance with the Remedial Work Plan by the Department on July 3, 2003
7. DECLARANT hereby consents on behalf of itself and its successors and assigns, to the enforcement by the Department, or if at such time the Department shall no longer exist, any New York State department, bureau, or other entity replacing the Department, of the prohibitions and restrictions herein recorded, and hereby covenants not to contest such enforcement.

CDI 21<sup>st</sup> LIC, LLCBy: 

## STATE OF NEW YORK, COUNTY OF QUEENS

On the 10<sup>th</sup> day of July in the year 2003, before me, the undersigned, a Notary Public in and for said State, personally appeared John D. Belavich Personally known to me or proved to me on the basis of satisfactory evidence to be the individual whose name is subscribed to he within instrument and acknowledged to me that he executed the same in his capacity, and that by his signature on the instrument, the individual or the person upon whose behalf the individual acted, executed the instrument.

EILEEN F. YENGLE  
NOTARY PUBLIC, State of New York  
No. 80-4732868  
Qualified in Nassau County  
Certificate filed in Nassau County  
Commission Expires Dec. 31, ~~2006~~

  
Notary Public

ATTACHMENT "A "

1

1

1

Standard N.Y.U.T.H. Form 1001-10-6-1 (Revised and Sale Third, without Covenants against Grantor's Acts-Individual or Corporation (single sheet)  
 CONSULT YOUR LAWYER BEFORE SIGNING THIS INSTRUMENT—THIS INSTRUMENT SHOULD BE USED BY LAWYERS ONLY.

THIS INDENTURE, made the <sup>23</sup> day of May, ~~September~~ 2002  
 BETWEEN PREMIER STORAGE SOLUTIONS OF L.I. CITY, LLC, with offices  
 at 5170 Sanderlin Avenue, Suite 201, Memphis, Tennessee  
 38117,

party of the first part, and CDI 21st LLC, LLC, with offices c/o Bell Realty,  
 525 Northern Boulevard, Suite 300, Great Neck, New  
 York 11021

party of the second part,

WITNESSETH, that the party of the first part, in consideration of Ten Dollars and other valuable consideration paid by the party of the second part, does hereby grant and release unto the party of the second part, the heirs or successors and assigns of the party of the second part forever,

ALL that certain plot, piece or parcel of land, with the buildings and improvements thereon erected, situate, lying and being in the

SEE SCHEDULE A ANNEXED HERETO.

BLOCK  
 438.

LOTS

23  
 26

TOGETHER with all right, title and interest, if any, of the party of the first part of, in and to any streets and roads abutting the above-described premises to the center lines thereof; TOGETHER with the appurtenances and all the estate and rights of the party of the first part in and to said premises; TO HAVE AND TO HOLD the premises herein granted unto the party of the second part, the heirs or successors and assigns of the party of the second part forever.

AND the party of the first part, in compliance with Section 13 of the Lien Law, covenants that the party of the first part will receive the consideration for this conveyance and will hold the right to receive such consideration as a trust fund to be applied first for the purpose of paying the cost of the improvement and will apply the same first to the payment of the cost of the improvement before using any part of the total of the same for any other purpose.

The word "party" shall be construed as if it read "parties" whenever the sense of this indenture so requires.

IN WITNESS WHEREOF, the party of the first part has duly executed this deed the day and year first above written.

IN PRESENCE OF:

PREMIER STORAGE SOLUTIONS OF L.I. CITY, LLC

BY: [Signature]

Tennessee  
STATE OF NEW YORK, COUNTY OF Shelby 59

On the 21st day of May, in the year 2002, before me personally appeared James G. Williams, personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name(s) is (are) subscribed to the within instrument and James G. Williams acknowledged to me that he/she/they executed the same in his/her/their capacity(ies) and that by his/her/their signature(s) on the instrument, the individual(s) or the person upon behalf of which the individual(s) acted, executed the instrument and that by such individual made such appearance before the undersigned in the

Mayaui Whitney  
Notary Public

My Commission Expires Jan. 15, 2003

STATE OF NEW YORK, COUNTY OF

59.

On the day of 19, before me personally came to me known, who, being by me duly sworn, did depose and say that he resides at No.

that he is the of

, the corporation described in and which executed the foregoing instrument; that he knows the seal of said corporation; that the seal affixed to said instrument is such corporate seal; that it was so affixed by order of the board of directors of said corporation, and that he signed his name thereto by like order.

STATE OF NEW YORK, COUNTY OF

59.

On the day of 19, before me personally came the subscribing witness to the foregoing instrument, with whom I am personally acquainted, who, being by me duly sworn, did depose and say that he resides at No.

that he knows

to be the individual described in and who executed the foregoing instrument; that he, said subscribing witness, was present and saw execute the same; and that he, said witness, at the same time subscribed his name as witness thereto.

Mortgage and Sale Deed  
WITHOUT COVENANT AGAINST GRANTOR'S ACTS

TITLE No. 3601-00306

PREMIER STORAGE SOLUTIONS OF L.L. CTR.,  
LLC,

TO

CDI 21st LLC, LLC

STANDARD FORM OF  
NEW YORK BOARD OF TITLE UNDERWRITERS  
Distributed by



GUARANTEED TITLE DIVISION

A Member of The Commercial Insurance Companies

SECTION

BLOCK 438

LOT

23, 26

COUNTY IN TOWN

Recorded At Request of American Title Insurance Company

RETURN BY MAIL TO:

BERNICK, FREDERICK, ESQ.  
TWO PARK AVENUE  
NEW YORK, NEW YORK 10016-0000

Attn.: MITCHELL BERNSTEIN, ESQ.

Zip No.

RESERVE THIS SPACE FOR USE ON RECORDING OFFICE

## CHICAGO TITLE INSURANCE COMPANY

Title No.: 3601-00306

### LEGAL DESCRIPTION

AS TO LOT 23:

ALL THAT CERTAIN PLOT, PIECE, OR PARCEL OF LAND, SITUATE, LYING, AND BEING IN THE BOROUGH AND COUNTY OF QUEENS, CITY AND STATE OF NEW YORK, BOUNDED AND DESCRIBED AS FOLLOWS:

BEGINNING AT A POINT 79 FEET EASTERLY FROM THE CORNER FORMED BY THE INTERSECTION OF THE EASTERLY SIDE OF 21ST STREET (VANALST AVENUE AND EMERALD AVENUE) WHERE IT INTERSECTS WITH THE NORTHERLY SIDE OF 44TH DRIVE (NOTT AVENUE) AND NORTHERLY 27 FEET PARALLEL WITH THE EASTERLY SIDE OF 21ST STREET;

THENCE NORTHERLY AND PARALLEL WITH THE EASTERLY SIDE OF 21ST STREET, 65 FEET;

THENCE EASTERLY AND PARALLEL WITH THE NORTHERLY SIDE OF 44TH DRIVE, 57 FEET;

THENCE NORTHERLY AND PARALLEL WITH THE EASTERLY SIDE OF 21ST STREET, 8 FEET;

THENCE WESTERLY AND PARALLEL WITH THE NORTHERLY SIDE OF 44TH DRIVE, 136 FEET;

THENCE SOUTHERLY AND PARALLEL WITH THE EASTERLY SIDE OF 21ST STREET, 73 FEET;

THENCE EASTERLY AND PARALLEL WITH THE NORTHERLY SIDE OF 44TH DRIVE, 79 FEET TO THE POINT OF PLACE OF BEGINNING.

FOR INFORMATION ONLY BLOCK: 438 LOT: 23

## CHICAGO TITLE INSURANCE COMPANY

Title No.: 3601-00306

### LEGAL DESCRIPTION

AS TO LOT 26:

ALL THAT CERTAIN PLOT, PIECE, OR PARCEL OF LAND, SITUATE, LYING, AND BEING IN THE BOROUGH AND COUNTY OF QUEENS, CITY AND STATE OF NEW YORK, BOUNDED AND DESCRIBED AS FOLLOWS:

BEGINNING AT THE CORNER FORMED BY THE INTERSECTION OF THE SOUTHERLY SIDE OF 44TH ROAD, FORMERLY 13TH STREET WITH THE EASTERLY SIDE OF 21ST STREET, FORMERLY VAN ALST AVENUE;

RUNNING THENCE SOUTHERLY ALONG THE SAID EASTERLY SIDE OF 21ST STREET, 100 FEET;

THENCE EASTERLY PARALLEL WITH SAID SIDE OF 44TH ROAD, 315 FEET;

THENCE NORTHERLY AND PARALLEL WITH SAID SIDE OF 21ST STREET, 100 FEET TO THE SOUTHERLY SIDE OF 44TH ROAD;

AND THENCE WESTERLY ALONG SAID SIDE OF 44TH ROAD, 315 FEET TO THE CORNER, THE POINT OR PLACE OF BEGINNING.

FOR INFORMATION ONLY BLOCK: 438 LOT: 26

## CHICAGO TITLE INSURANCE COMPANY

Title No.: 3601-00306

### LEGAL DESCRIPTION

#### BLANKET DESCRIPTION

ALL THAT CERTAIN PLOT, PIECE, OR PARCEL OF LAND, SITUATE, LYING, AND BEING IN THE BOROUGH AND COUNTY OF QUEENS, CITY AND STATE OF NEW YORK, BOUNDED AND DESCRIBED AS FOLLOWS:

BEGINNING AT THE CORNER FORMED BY THE INTERSECTION OF THE SOUTHERLY SIDE OF 44TH ROAD, FORMERLY 13TH STREET WITH THE EASTERLY SIDE OF 21ST STREET, FORMERLY VAN ALST AVENUE;

THENCE EASTERLY ALONG THE SOUTHERLY SIDE OF 44TH ROAD 315.00 FEET;

THENCE SOUTHERLY AT RIGHT ANGLES TO 44TH ROAD 100.00 FEET;

THENCE WESTERLY AND PARALLEL WITH THE SOUTHERLY SIDE OF 44TH ROAD 179.0 FEET;

THENCE SOUTHERLY AT RIGHT ANGLES WITH THE PRECEDING COURSE 8.0 FEET;

THENCE WESTERLY AND AGAIN PARALLEL WITH THE SOUTHERLY SIDE OF 44TH ROAD 57.0 FEET;

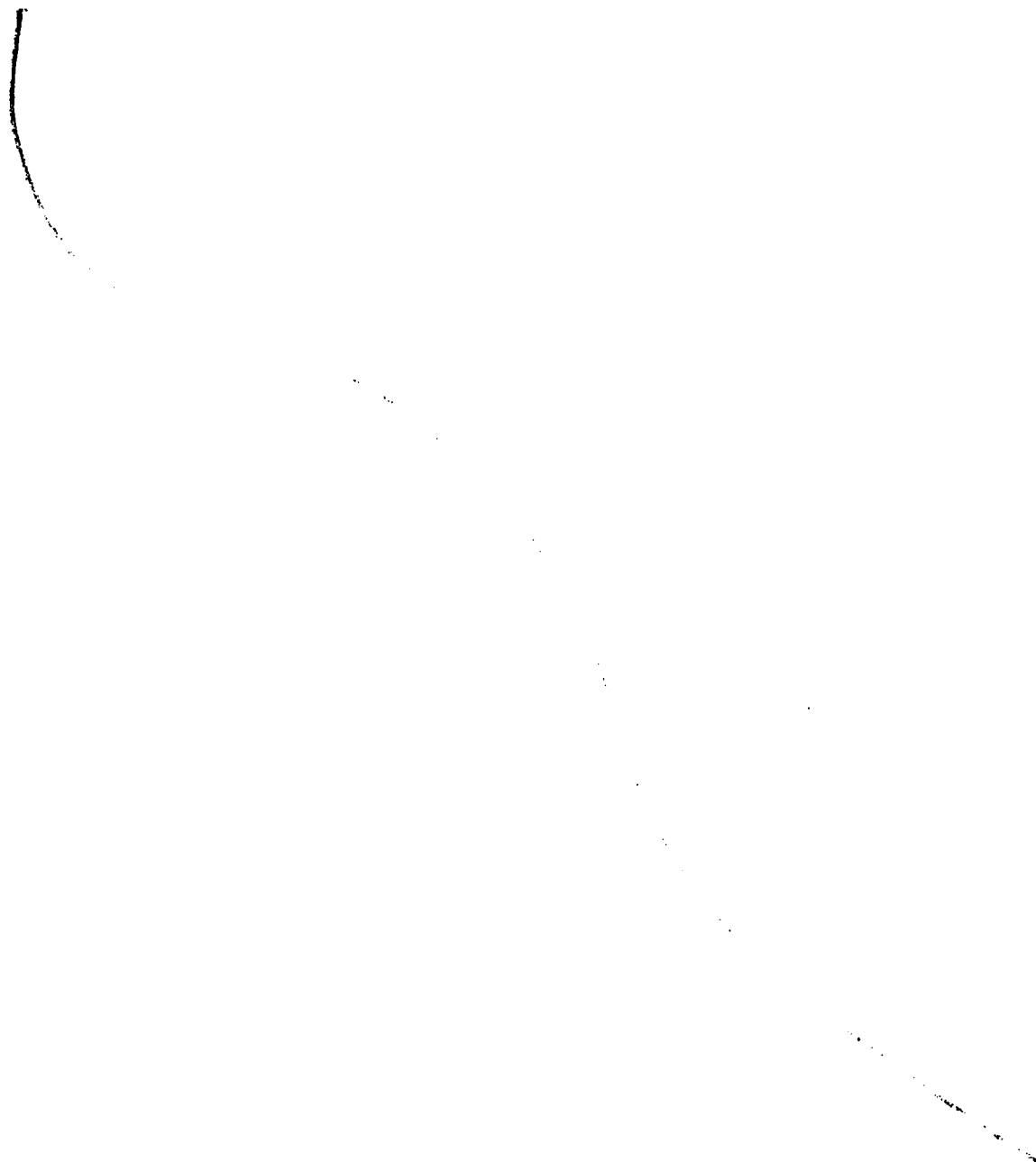
THENCE SOUTHERLY AND PARALLEL WITH THE EASTERLY SIDE OF 21ST STREET 65.0 FEET;

THENCE WESTERLY AND AGAIN PARALLEL WITH THE SOUTHERLY SIDE OF 44TH ROAD 79.0 FEET TO THE EASTERLY SIDE OF 21ST STREET;

THENCE NORTHERLY ALONG THE EASTERLY SIDE OF 21ST STREET 173.0 FEET TO THE SOUTHERLY SIDE OF 44TH ROAD, THE POINT OR PLACE OF BEGINNING.

FOR INFORMATION ONLY: BLOCK 438 LOTS 23 AND 26

ATTACHMENT "B"





FROM HERRICK, FEINSTEIN LLP

(WSD) 1.23'02:12:14/ST. 12:13 NO. 4260647559 F 2

21/01/2002 18:36 2129678956

LLK&H, PLLC

PAGE 32

**New York State Department of Environmental Conservation**  
**Division of Environmental Enforcement**  
**Bureau of State Superfund and Voluntary Cleanup**  
625 Broadway, Albany, New York 12233-5350  
Phone: (518) 402-9521 • FAX: (518) 402-8019  
Website: [www.dec.state.ny.us](http://www.dec.state.ny.us)



January 11, 2002

Alicia A. Weissmeier, Esq.  
Lapatin Lewis Kaplan & Weissmeier, PLLC  
Attorneys at Law  
Suite 310  
977 Avenue of the Americas  
New York, New York 10018

Re: Voluntary Cleanup Agreement - 21-16 44<sup>th</sup> Road Site, Index No. D2-0023-00-08

Dear Ms. Weissmeier:

This letter is forwarded in response to your application to Commissioner Cray to modify the above referenced Agreement dated January 7, 2002. In that application, your client the Volunteer requested a change in the contemplated use of the Site as stated in the Agreement from, "proposed use as a storage facility and continued use for manufacturing, including but not limited to the current manufacture and distribution of knapery hardware and clothing manufacture" to "Unrestricted Use." In this letter, the Department formally accepts such application and in accordance with the terms of the Agreement the requested application to modify the Agreement is granted.

All other terms and conditions of the Agreement remain in full force and effect. This letter does not constitute a waiver of any rights by the Department regarding said Agreement. Please contact me if you have any questions in this regard.

Very truly yours,

*Michael J. Lasser, Esq.*

Michael J. Lasser, Esq.  
Legal Coordinator,  
Voluntary Cleanup Program

MJL:mj/644785 v1

cc: [Munteanu-Ramirez (R2)]  
E. Ammirato  
C. Costopoulos

**DECLARATION  
BY CDI 21, LIC, LLC**

**TAX BLOCK: 438**

**LOT NOS.: 23 and 26**

**July 10 , 2003**

**SIVE, PAGET & RIESEL, P.C.  
460 PARK AVENUE  
NEW YORK, NEW YORK 10022-1906**

## **APPENDIX I**

### **Metes and Bounds**

# CHICAGO TITLE INSURANCE COMPANY

Title No.: 3601-00306

## LEGAL DESCRIPTION

AS TO LOT 23:

ALL THAT CERTAIN PLOT, PIECE, OR PARCEL OF LAND, SITUATE, LYING, AND BEING IN THE BOROUGH AND COUNTY OF QUEENS, CITY AND STATE OF NEW YORK, BOUNDED AND DESCRIBED AS FOLLOWS:

BEGINNING AT A POINT 79 FEET EASTERLY FROM THE CORNER FORMED BY THE INTERSECTION OF THE EASTERLY SIDE OF 21ST STREET (VANALST AVENUE AND EMERALD AVENUE) WHERE IT INTERSECTS WITH THE NORTHERLY SIDE OF 44TH DRIVE (NOTT AVENUE) AND NORTHERLY 27 FEET PARALLEL WITH THE EASTERLY SIDE OF 21ST STREET,

THENCE NORTHERLY AND PARALLEL WITH THE EASTERLY SIDE OF 21ST STREET, 65 FEET;

THENCE EASTERLY AND PARALLEL WITH THE NORTHERLY SIDE OF 44TH DRIVE, 57 FEET;

THENCE NORTHERLY AND PARALLEL WITH THE EASTERLY SIDE OF 21ST STREET, 8 FEET;

THENCE WESTERLY AND PARALLEL WITH THE NORTHERLY SIDE OF 44TH DRIVE, 136 FEET;

THENCE SOUTHERLY AND PARALLEL WITH THE EASTERLY SIDE OF 21ST STREET, 73 FEET;

THENCE EASTERLY AND PARALLEL WITH THE NORTHERLY SIDE OF 44TH DRIVE, 79 FEET TO THE POINT OF PLACE OF BEGINNING.

FOR INFORMATION ONLY BLOCK: 438 LOT: 23

# CHICAGO TITLE INSURANCE COMPANY

Title No.: 3601-00306

## LEGAL DESCRIPTION

AS TO LOT 26:

ALL THAT CERTAIN PLOT, PIECE, OR PARCEL OF LAND, SITUATE, LYING, AND BEING IN THE BOROUGH AND COUNTY OF QUEENS, CITY AND STATE OF NEW YORK, BOUNDED AND DESCRIBED AS FOLLOWS:

BEGINNING AT THE CORNER FORMED BY THE INTERSECTION OF THE SOUTHERLY SIDE OF 44TH ROAD, FORMERLY 13TH STREET WITH THE EASTERLY SIDE OF 21ST STREET, FORMERLY VAN ALST AVENUE;

RUNNING THENCE SOUTHERLY ALONG THE SAID EASTERLY SIDE OF 21ST STREET, 100 FEET;

THENCE EASTERLY PARALLEL WITH SAID SIDE OF 44TH ROAD, 315 FEET;

THENCE NORTHERLY AND PARALLEL WITH SAID SIDE OF 21ST STREET, 100 FEET TO THE SOUTHERLY SIDE OF 44TH ROAD;

AND THENCE WESTERLY ALONG SAID SIDE OF 44TH ROAD, 315 FEET TO THE CORNER, THE POINT OR PLACE OF BEGINNING.

FOR INFORMATION ONLY BLOCK: 438 LOT: 26

## CHICAGO TITLE INSURANCE COMPANY

Title No.: 3601-00306

### LEGAL DESCRIPTION

#### BLANKET DESCRIPTION

ALL THAT CERTAIN PLOT, PIECE, OR PARCEL OF LAND, SITUATE, LYING, AND BEING IN THE BOROUGH AND COUNTY OF QUEENS, CITY AND STATE OF NEW YORK, BOUNDED AND DESCRIBED AS FOLLOWS:

BEGINNING AT THE CORNER FORMED BY THE INTERSECTION OF THE SOUTHERLY SIDE OF 44TH ROAD, FORMERLY 13TH STREET WITH THE EASTERLY SIDE OF 21ST STREET, FORMERLY VAN ALST AVENUE;

THENCE EASTERLY ALONG THE SOUTHERLY SIDE OF 44TH ROAD 315.00 FEET;

THENCE SOUTHERLY AT RIGHT ANGLES TO 44TH ROAD 100.00 FEET;

THENCE WESTERLY AND PARALLEL WITH THE SOUTHERLY SIDE OF 44TH ROAD 179.0 FEET;

THENCE SOUTHERLY AT RIGHT ANGLES WITH THE PRECEDING COURSE 8.0 FEET;

THENCE WESTERLY AND AGAIN PARALLEL WITH THE SOUTHERLY SIDE OF 44TH ROAD 57.0 FEET;

THENCE SOUTHERLY AND PARALLEL WITH THE EASTERLY SIDE OF 21ST STREET 65.0 FEET;

THENCE WESTERLY AND AGAIN PARALLEL WITH THE SOUTHERLY SIDE OF 44TH ROAD 79.0 FEET TO THE EASTERLY SIDE OF 21ST STREET;

THENCE NORTHERLY ALONG THE EASTERLY SIDE OF 21ST STREET 173.0 FEET TO THE SOUTHERLY SIDE OF 44TH ROAD, THE POINT OR PLACE OF BEGINNING.

FOR INFORMATION ONLY: BLOCK 438 LOTS 23 AND 26

# **Appendix B**

## Annual Inspection Forms

## ANNUAL INSPECTION / MONITORING CHECKLIST

Information Technology High School  
21-16 44th Drive  
Long Island City, New York

| <u>Sub-Slab Depressurization<br/>System Component</u> | <u>Condition</u>                               | <u>Yes</u> | <u>No</u> | <u>Describe Deficiency</u> | <u>Any Corrective Action Performed? If so, describe</u> |
|-------------------------------------------------------|------------------------------------------------|------------|-----------|----------------------------|---------------------------------------------------------|
| Exhaust Stack                                         | Is air freely flowing out of stack?            | x          |           |                            |                                                         |
| Building Floor Slab                                   | Holes, cracks, or other physical deficiencies? |            | x         |                            |                                                         |
| SSDS Piping                                           | Holes, cracks, or other physical deficiencies? |            | x         |                            |                                                         |
|                                                       | Blockages in SSDS piping?                      |            | x         |                            |                                                         |
| SSDS Blower(s)                                        | Operational?                                   | x          |           |                            |                                                         |

Jordan Arey

Name of Inspector

*Jordan V. Arey*

Signature of Inspector

April 28, 2023

Date of Inspection





# Appendix C

## Engineering Control and Institutional Control 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.**            **V00366**

**Site Name** 21-16 44th Road , LIC

Site Address: 21-16 44TH ROAD            Zip Code: 11101  
City/Town: Long Island City  
County: Queens  
Site Acreage: 0.800

Reporting Period: April 03, 2022 to April 03, 2023

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?  
Restricted-Residential, 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

**Description of Institutional Controls**ParcelOwnerInstitutional Control**438-23**

John Belanich/CDI, 21st Street, LIC, LLC

Ground Water Use Restriction  
 Soil Management Plan  
 Landuse Restriction  
 Building Use Restriction

Block 438, Lot 23, represents the court yard and parking lot for the Information Technology High School. The area is paved.

Groundwater at the site must be treated before using it and an approval for using the groundwater must be obtain from the Department before using it.

The remedial system operating on site on Block 438 Lot 26, and consisting of: groundwater pump and treatment system; soil vapor extraction system; soil gas depressurisation system; soil vapor barrier; and capping must be maintained in operation at designed parameters. Any plan to modify the remedial system must be approved by the Department.

The soil beneath the cap at the site must not be disturbed without an approved Health and Safety Plan approved by the Department.

Annual certification must be filed with the Department for the EC/IC which are in place and oprating at designed parameters until the Department will decide it is appropriate to modify them.

**438-26**

John Belanich/CDI, 21st. Street,LIC, LLC

Building Use Restriction  
 Ground Water Use Restriction  
 Soil Management Plan  
 Landuse Restriction

The site can only be used in accordance with the Deed Restriction. The change in use of the property can be made only with the NYS DEC Commisioner's written approval.

An approval for using the groundwater must be obtained from the Department before using it. The groundwater underlying the site must be treated before using it.

The remedial system consisting of: a groundwater pump and treatment system has been decomissioned with NYSDOH and NYSDEC approval(in April 2014, the groundwater Pump and Treatment System was discontinued with the NYSDEC and NYSDOH approval); soil vapor extraction system(in July 2012, the soil vapor extraction system was discontinued withthe NYSDEC and NYSDOH approval); soil gas/vapor barrier beneath the first and basement slab; and soil gas depressurization system, must be maintained in operation at the designed parameters. The capping of the site must be maintained in the same conditions as it was designed for. Any plan to modify the remedial system must be approved by the Department.

The soil beneath the cap at the site must not be disturbed without a health and safety plan approved by the Department.

Every three (3) years certification must be filed with the Department for the aforementioned engineering and institutional controls which operate in place under the designed parameters. The Engineering and Institutional Controls will be maintained in place and operating at designed parameters until the Department will decide it is appropriate to modify them.

**Description of Engineering Controls**ParcelEngineering Control**438-23**

Groundwater Treatment System  
 Vapor Mitigation  
 Subsurface Barriers  
 Cover System

**438-26**

Parcel

Engineering Control

Vapor Mitigation  
Cover System  
Subsurface Barriers

In July 2012 the Soil Vapor Extraction System was dismantled and its operation discontinued with the approval of the NYSDEC and NYSDOH.

In April 2014, the groundwater Pump and Treatment System was discontinued with the NYSDEC and NYSDOH approval.

**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 complete.

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. V00366

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 ARNOLD F. FLEMING at 158 WEST 29th ST, NEW YORK, N.Y. 10001,  
print name print business address

am certifying as OWNER (Owner or Remedial Party)

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



Signature of Owner, Remedial Party, or Designated Representative  
Rendering Certification

5/3/2023

Date

## EC CERTIFICATIONS

Box 7

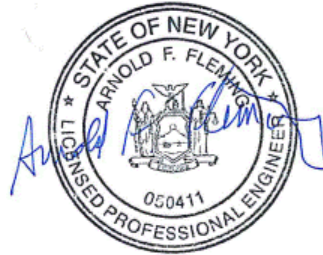
### Professional Engineer Signature

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 ARNOLD F. FLEMING at 158 WEST 29th ST., NEW YORK, N.Y. 10001,  
print name print business address

am certifying as a Professional Engineer for the OWNER  
(Owner or Remedial Party)

*Arnold F. Fleming*



Signature of Professional Engineer, for the Owner or  
Remedial Party, Rendering Certification

Stamp  
(Required for PE)

5/3/2023

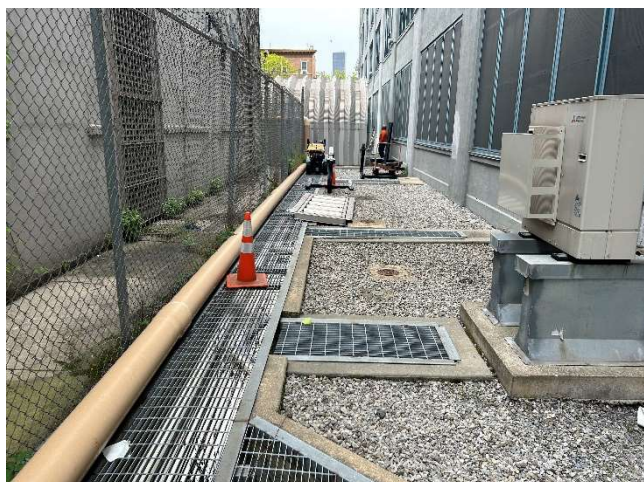
Date

# Appendix D

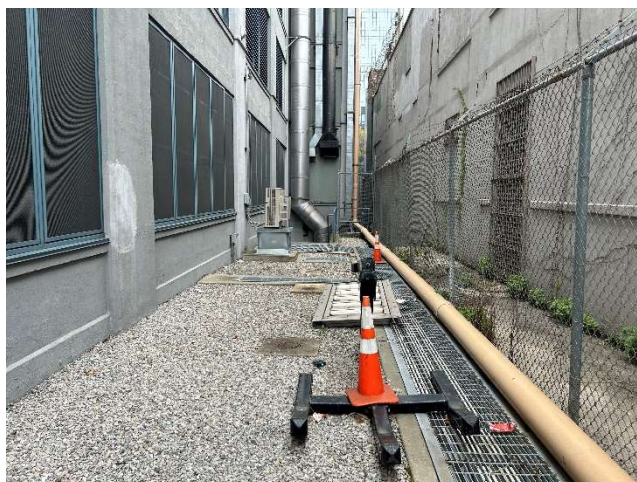
## Photographic Log



## Site Photos – Former Drum Storage Area, SSDS, and School Slab



Former Drum Storage Area



Former Drum Storage Area



SSDS Blower and Legs in Treatment Shed



SSDS Blower Electric Panel



SSDS Alarm System in Treatment Shed



Main Entrance





Courtyard



Basement Storage Room



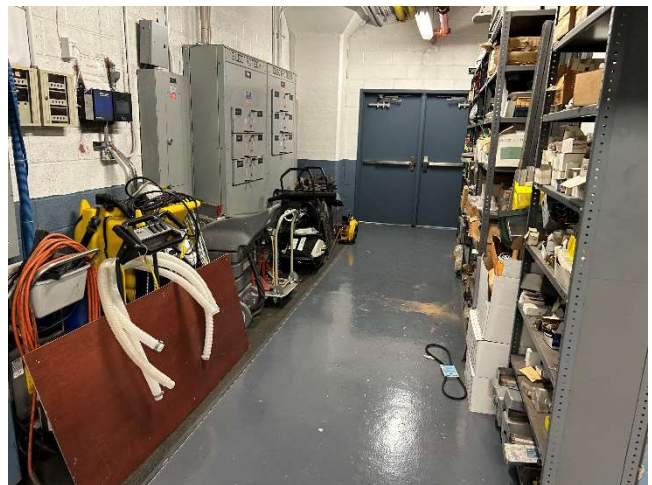
Basement Boiler Room



Basement Boiler Room



Basement Boiler Room



Basement Boiler Room





Basement Slab



Basement Slab



Basement Hallway

# **Appendix E**

## Agency Correspondence

## Joel Kane

---

**From:** Allan, Christopher H (DEC) <Christopher.Allan@dec.ny.gov>  
**Sent:** Thursday, November 03, 2022 4:13 PM  
**To:** Benjamin Hess; McLaughlin, Scarlett E (HEALTH); Nealon, Jacquelyn E (HEALTH)  
**Cc:** 'JDBelanich@BellRealtyNY.com'; 'cec30@schools.nyc.gov'; 'Q725 Custodian'; 'Jwoods6@schools.nyc.gov'; Joel Kane; Arnold Fleming; Jordan Arey; 'ELindse@schools.nyc.gov'  
**Subject:** RE: Notification | Information Technology Highschool | Site No. V00366-2 | SSDS Effluent Pipe Repair

Thank you for being on top of this,

I will discuss this with DOH to see if we need anything further.

Best,  
Chris

---

**From:** Benjamin Hess <benjamin@flemingleeshue.com>  
**Sent:** Tuesday, November 01, 2022 4:37 PM  
**To:** Allan, Christopher H (DEC) <Christopher.Allan@dec.ny.gov>; McLaughlin, Scarlett E (HEALTH) <scarlett.mclaughlin@health.ny.gov>  
**Cc:** 'JDBelanich@BellRealtyNY.com' <JDBelanich@BellRealtyNY.com>; 'cec30@schools.nyc.gov' <cec30@schools.nyc.gov>; 'Q725 Custodian' <CQ725@schools.nyc.gov>; 'Jwoods6@schools.nyc.gov' <Jwoods6@schools.nyc.gov>; joel@flemingleeshue.com; arnie@flemingleeshue.com; Jordan Arey <jordan@flemingleeshue.com>; 'ELindse@schools.nyc.gov' <ELindse@schools.nyc.gov>  
**Subject:** RE: Notification | Information Technology Highschool | Site No. V00366-2 | SSDS Effluent Pipe Repair

You don't often get email from [benjamin@flemingleeshue.com](mailto:benjamin@flemingleeshue.com). [Learn why this is important](#)

**ATTENTION: This email came from an external source. Do not open attachments or click on links from unknown senders or unexpected emails.**

All,

This is an update regarding the sub-slab depressurization system (SSDS) for Information Technology High School in Long Island City (Site No V00366-2).

### *SSDS Piping Repair*

Today, November 1<sup>st</sup>, Fleming Lee Shue (FLS) staff and our maintenance contractor were able to mobilize to the Site to repair the effluent SSDS piping. At this time, the effluent piping has been reconnected and the SSDS has been restarted. Flow was confirmed at the exhaust point on the roof.

### *Actions Forward*

FLS will continue to closely monitor the system over the next several weeks to ensure it is operating correctly. In the event of further malfunctions or shutdowns (not expected)—FLS will notify all relevant parties. The next semi-annual SSDS operations maintenance and monitoring event will take place in January 2023.

As always let me know if there are any questions, comments or concerns.

**Benjamin Hess**  
Staff Engineer

**Fleming – Lee Shue**

[158 W. 29<sup>th</sup> St. Fl. 9](#)

[New York, NY 10001](#)

P: 212.675.3225

M: 732-272-4992

F: 212.675.3224

[benjamin@flemingleeshue.com](mailto:benjamin@flemingleeshue.com)

[www.flemingleeshue.com](http://www.flemingleeshue.com)

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**From:** Benjamin Hess

**Sent:** Friday, October 28, 2022 4:59 PM

**To:** [Christopher.Allan@dec.ny.gov](mailto:Christopher.Allan@dec.ny.gov); [scarlett.mclaughlin@health.ny.gov](mailto:scarlett.mclaughlin@health.ny.gov)

**Cc:** [JDBelanich@BellRealtyNY.com](mailto:JDBelanich@BellRealtyNY.com); [cec30@schools.nyc.gov](mailto:cec30@schools.nyc.gov); Q725 Custodian <[CQ725@schools.nyc.gov](mailto:CQ725@schools.nyc.gov)>;

[Jwoods6@schools.nyc.gov](mailto:Jwoods6@schools.nyc.gov); Joel Kane <[joel@flemingleeshue.com](mailto:joel@flemingleeshue.com)>; Arnold Fleming <[arnie@flemingleeshue.com](mailto:arnie@flemingleeshue.com)>;

Jordan Arey <[jordan@flemingleeshue.com](mailto:jordan@flemingleeshue.com)>; [ELindse@schools.nyc.gov](mailto:ELindse@schools.nyc.gov)

**Subject:** Notification | Information Technology Highschool | Site No. V00366-2 | SSDS Effluent Pipe Repair

All,

This is a notification regarding the sub-slab depressurization system (SSDS) for Information Technology High School in Long Island City (Site No V00366-2).

*SSDS Blower Malfunction/Maintenance*

On Friday, October 28<sup>th</sup> Fleming Lee Shue (FLS) was on-site to conduct the semi-annual groundwater sampling event. Staff noticed that a joint between the effluent header and the effluent stack has disconnected, and the SSDS was emitting the clean effluent (0.0 ppm confirmed with PID instrumentation) into the adjacent alley space with 21-21 44<sup>th</sup> Drive. No visible air intakes were observed within the vicinity of the disconnected effluent. Our team attempted to troubleshoot and reconnect the SSDS piping, but was unable to with the manpower and materials present.

*Actions Forward*

The SSDS has been temporarily shut down and a maintenance subcontractor (Brookside Environmental) is scheduled to conduct repairs on Tuesday, November 1<sup>st</sup>. FLS has coordinated with maintenance staff for access. We will continue to update all as this situation unfolds.

As always let me know if there are any questions, comments or concerns.

Thanks again,

**Benjamin Hess**

Staff Engineer

**Fleming – Lee Shue**

[158 W. 29<sup>th</sup> St. Fl. 9](#)

[New York, NY 10001](#)

P: 212.675.3225

M: 732-272-4992

F: 212.675.3224

[benjamin@flemingleeshue.com](mailto:benjamin@flemingleeshue.com)

[www.flemingleeshue.com](http://www.flemingleeshue.com)

# NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Region 2  
47-40 21st Street, Long Island City, NY 11101  
P: (718) 482-4995  
[www.dec.ny.gov](http://www.dec.ny.gov)

December 19, 2018

Mark Hutson  
Fleming-Lee Shue, Inc.  
158 West 29<sup>th</sup> St.  
New York, NY 10001

Re: 21-16 44th Road, Long Island City, NY  
Site No. V00366  
Semi-Annual Groundwater Monitoring Report

Dear Mr. Hutson,

The New York State Department of Environmental Conservation (the Department) has reviewed the January 9, 2017 report documenting the results of the semi-annual groundwater monitoring at the referenced site. The report was prepared by Fleming-Lee Shue, Inc. (FLS) on behalf of CDI 21st LIC, LLC. The report also proposed modifications to the monitoring scope, specifically removing MW-2 from future monitoring events.

The Department hereby approves the modification of the monitoring schedule stated above. Monitoring well MW-2, in addition to wells MW-5, MW-10, MW-13 must be decommissioned in accordance with Commissioner's Policy (CP) 43. Furthermore, this modification must be documented in revisions to the approved Site Management Plan (SMP). Please submit any necessary revised pages to reflect the approved modifications, including a revised cover page showing the changes, within 30 days of the date of this letter.

Sincerely,

Christopher H. Allan  
Project Manager

ec: Jane O'Connell, Mandy Yau – NYSDEC  
Justin Deming, Dawn Hettrick – NYSDOH  
John Belanich – CDI 21<sup>st</sup> St LIC, LLC  
Joseph Reed – Information Technology High School Principal  
Bernard Orlan – NYC Department of Education

# Appendix F

## SSDS OMM Forms

# Info Tech High School Monitoring Field Sheet

Date 7/11/2022

Inspector BJH

Time 9:00

## General

Weather sunny

Temperature (F) 75.7

Relative humidity (%) 56.1

Dew point (F) 58

Barometric pressure (in Hg) 30.00

Wind speed (mph) 6

Wind direction NE

Alarms triggered? N

System leaks? N

| Air Sample Location | PID (ppm)  |
|---------------------|------------|
| Calibration         | 0.0 / 99.9 |
| Background          | 0.0        |
| Upwind              | 0.0        |
| Treatment Shed      | 0.0        |
| Downwind            | 0.0        |

## System Effluent

Flow rate (cfm) 253.65

Temperature (F) 143.9

Effluent sample time 10:45

Effluent PID (ppm) 0.0

## System 1

| Monitoring Point | Vacuum (in w.c.) | Flow (cfm) | Temperature (F) | PID (ppm) |
|------------------|------------------|------------|-----------------|-----------|
| HV-1             | -0.030           | 5.27       | 79.3            | 0.0       |
| HV-2             | -0.197           | 9.3        | 78.5            | 0.0       |
| HV-3             | -0.091           | 5.16       | 77.8            | 0.0       |
| HV-4             | -0.129           | 6.77       | 77.4            | 0.0       |
| HV-5             | -0.098           | 4.32       | 77.2            | 0.0       |
| HV-6             | -0.359           | 10.76      | 77.0            | 0.0       |
| Header           | -19.66           | -          | -               | 0.0       |

## System 2

| Monitoring Point | Vacuum (in w.c.) | Flow (cfm) | Temperature (F) | PID (ppm) |
|------------------|------------------|------------|-----------------|-----------|
| HV-7             | -0.626           | 13.96      | 77.1            | 0.1       |
| HV-8             | -2.556           | 22.40      | 76.3            | 0.0       |
| HV-9             | -2.654           | 16.29      | 76.3            | 0.0       |
| HV-10            | -2.664           | 23.80      | 75.9            | 0.0       |
| HV-11            | -0.952           | 13.17      | 75.6            | 0.1       |
| Header           | -19.82           | -          | -               | 0.0       |



# Info Tech High School Monitoring Field Sheet

System 3

| Monitoring Point | Vacuum (in w.c.) | Flow (cfm) | Temperature (F) | PID (ppm) |
|------------------|------------------|------------|-----------------|-----------|
| HV-12            | -9.62            | 59.77      | 90.9            | 0.0       |
| HV-13            | -5.84            | 33.62      | 88.3            | 0.0       |
| HV-14            | -0.648           | 11.82      | 86.6            | 0.0       |
| HV-15            | -0.045           | 3.45       | 84.8            | 0.0       |
| HV-16            | -0.172           | 5.54       | 85.4            | 0.0       |
| HV-17            | -0.232           | 7.28       | 85.7            | 0.0       |
| Header           | -22.05           | -          | -               | 0.0       |

|                              | Blower #4 | Blower #2B |
|------------------------------|-----------|------------|
| Post-blower pressure ("w.c.) | 0.652     | -          |
| Post-blower flow (cfm)       | 253.65    | -          |
| Post-blower temperature (F)  | 165       | -          |
| Post-blower PID (ppm)        | 0         | -          |
| Water in V.L.S. (gal)        | -         | -          |
| Disconnect operational       | Y         | -          |

Notes

Conduct semi-annual OMM.

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Info Tech High School Monitoring Field Sheet

**Date** 1/23/2023  
**Time** 8:00

**Inspector** BJH

**General**

Weather raining  
 Temperature (F) 38.5  
 Relative humidity (%) 88.5  
 Dew point (F) 36  
 Barometric pressure (in Hg) 29.55  
 Wind speed (mph) 9  
 Wind direction SE  
 Alarms triggered? N  
 System leaks? N

| Air Sample Location | PID (ppm)   |
|---------------------|-------------|
| Calibration         | 0.0 / 100.1 |
| Background          | 0.0         |
| Upwind              | 0.0         |
| Treatment Shed      | 0.0         |
| Downwind            | 0.0         |

**System Effluent**

Flow rate (cfm) 102.81  
 Temperature (F) 86.4  
 Effluent sample time 9:54  
 Effluent PID (ppm) 0.0

**System 1**

| Monitoring Point | Vacuum (in w.c.) | Flow (cfm) | Temperature (F) | PID (ppm) |
|------------------|------------------|------------|-----------------|-----------|
| HV-1             | -0.069           | 3.81       | 44.6            | 0.0       |
| HV-2             | -0.216           | 8.43       | 46.7            | 0.0       |
| HV-3             | -0.099           | 4.94       | 46.9            | 0.1       |
| HV-4             | -0.131           | 5.58       | 46.8            | 0.0       |
| HV-5             | -0.127           | 2.82       | 46.4            | 0.0       |
| HV-6             | -0.365           | 9.74       | 46.4            | 0.0       |
| Header           | -20.15           | -          | -               | 0.0       |

**System 2**

| Monitoring Point | Vacuum (in w.c.) | Flow (cfm) | Temperature (F) | PID (ppm) |
|------------------|------------------|------------|-----------------|-----------|
| HV-7             | -0.419           | 9.5        | 47.8            | 0.0       |
| HV-8             | -2.714           | 19.95      | 47.2            | 0.1       |
| HV-9             | -2.975           | 18.47      | 46.9            | 0.0       |
| HV-10            | -3.125           | 21.23      | 46.8            | 0.0       |
| HV-11            | -1.686           | 18.05      | 46.7            | 0.1       |
| Header           | -19.87           | -          | -               | 0.0       |

Info Tech High School Monitoring Field Sheet

System 3

| Monitoring Point | Vacuum (in w.c.) | Flow (cfm) | Temperature (F) | PID (ppm) |
|------------------|------------------|------------|-----------------|-----------|
| HV-12            | -3.990           | 27.61      | 48.1            | 0.2       |
| HV-13            | -3.991           | 18.88      | 48.9            | 0.0       |
| HV-14            | -0.634           | 7.43       | 49.7            | 0.0       |
| HV-15            | -0.019           | 1.88       | 50.3            | 0.0       |
| HV-16            | -0.165           | 5.6        | 50.7            | 0.1       |
| HV-17            | -0.091           | 3.58       | 51.1            | 0.0       |
| Header           | -23.54           | -          | -               | 0.0       |

|                              | Blower #4 | Blower #2B |
|------------------------------|-----------|------------|
| Post-blower pressure ("w.c.) | 0.64      | -          |
| Post-blower flow (cfm)       | 102.81    | -          |
| Post-blower temperature (F)  | 86.4      | -          |
| Post-blower PID (ppm)        | 0         | -          |
| Water in V.L.S. (gal)        | -         | -          |
| Disconnect operational       | Y         | -          |

**Notes**

Conduct semi-annual OMM.

Redevelop MW-1. Initial DTB = 13.81 ' btoc. Redeveloped DTB = 18.78 'btoc.

Removal of 2 groundwater drums by Brookside Environmental.

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# Appendix G

## Laboratory Analytical Reports

The results set forth herein are provided by SGS North America Inc.

**e-Hardcopy 2.0**  
Automated Report

## Technical Report for

Fleming-Lee Shue, Inc.

Info Tech High School, 21-16 44th Road, Long Island City, NY

SGS Job Number: JD54605

Sampling Date: 10/28/22

Report to:

Fleming-Lee Shue, Inc.  
158 West 29th Street 9th Floor  
New York, NY 10001  
joel@FlemingLeeShue.com

ATTN: Steve Panter

Total number of pages in report: 389



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

A handwritten signature in blue ink, appearing to read 'D. Chastain'.

David Chastain  
General Manager

Client Service contact: Tammy McCloskey 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA(68-00408), RI, SC, TX, UT, VA, WV

This report shall not be reproduced, except in its entirety, without the written approval of SGS.  
Test results relate only to samples analyzed.

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Sample Summary

Fleming-Lee Shue, Inc.

Job No: JD54605

Info Tech High School, 21-16 44th Road, Long Island City, NY

| Sample Number | Collected Date | Time By | Received | Matrix Code | Type | Client Sample ID |
|---------------|----------------|---------|----------|-------------|------|------------------|
|---------------|----------------|---------|----------|-------------|------|------------------|

This report contains results reported as ND = Not detected. The following applies:  
Organics ND = Not detected above the MDL

|            |          |       |    |          |    |                   |             |
|------------|----------|-------|----|----------|----|-------------------|-------------|
| JD54605-1  | 10/28/22 | 10:05 | JA | 10/28/22 | AQ | Ground Water      | MW-9        |
| JD54605-2  | 10/28/22 | 10:10 | BH | 10/28/22 | AQ | Ground Water      | BRMW-1      |
| JD54605-3  | 10/28/22 | 11:10 | JA | 10/28/22 | AQ | Ground Water      | MW-8        |
| JD54605-4  | 10/28/22 | 11:20 | BH | 10/28/22 | AQ | Ground Water      | BRMW-2      |
| JD54605-5  | 10/28/22 | 12:00 | BH | 10/28/22 | AQ | Ground Water      | MW-6        |
| JD54605-6  | 10/28/22 | 12:05 | JA | 10/28/22 | AQ | Ground Water      | RW-1        |
| JD54605-7  | 10/28/22 | 12:40 | BH | 10/28/22 | AQ | Ground Water      | MW-7        |
| JD54605-8  | 10/28/22 | 12:40 | BH | 10/28/22 | AQ | Ground Water      | MW-7 DUP    |
| JD54605-9  | 10/28/22 | 13:10 | JA | 10/28/22 | AQ | Ground Water      | BRMW-3      |
| JD54605-10 | 10/28/22 | 12:30 | JA | 10/28/22 | AQ | Field Blank Water | FIELD BLANK |
| JD54605-11 | 10/28/22 | 12:30 |    | 10/28/22 | AQ | Trip Blank Water  | TRIP BLANK  |

## CASE NARRATIVE / CONFORMANCE SUMMARY

2

**Client:** Fleming-Lee Shue, Inc.

**Job No** JD54605

**Site:** Info Tech High School, 21-16 44th Road, Long Island City, NY

**Report Date** 11/7/2022 12:06:08 P

On 10/28/2022, 9 Sample(s), 1 Trip Blank(s) and 1 Field Blank(s) were received at SGS North America Inc. at a maximum corrected temperature of 2.7 C. Samples were intact and chemically preserved, unless noted below. A SGS North America Inc. Job Number of JD54605 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Compounds qualified as out of range in the continuing calibration summary report are acceptable as per method requirements when there is a high bias but the sample result is non-detect.

### MS Volatiles By Method SW846 8260D

**Matrix:** AQ

**Batch ID:** V1K38

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD54531-3MS, JD54531-3MSD were used as the QC samples indicated.
- Matrix Spike/Matrix Spike Duplicate Recovery(s) for Methyl Tert Butyl Ether are outside control limits. Outside control limits due to high level in sample relative to spike amount.
- JD54605-11 for Methylcyclohexane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD54605-11 for Methyl Acetate: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD54605-11 for Acetone: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD54605-11 for Bromomethane: Associated CCV outside of control limits high, sample was ND.
- JD54605-11 for Trichloroethene: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD54531-3MS for 4-Bromofluorobenzene: Outside of in house control limits, but within reasonable method recovery limits.

**Matrix:** AQ

**Batch ID:** V1U2018

- All samples were analyzed within the recommended method holding time.
- Sample(s) JD54605-5MS, JD54605-5MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Matrix Spike/Matrix Spike Duplicate Recovery(s) for Tetrachloroethene are outside control limits. Outside control limits due to high level in sample relative to spike amount.
- JD54605-5 for Chloroform: Associated CCV outside of control limits high, sample was ND.
- JD54605-5MS for Chloroform: Outside in house control limits.
- JD54605-5 for Acetone: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- V1U2018-BS for Chloroform: Outside of in house control limits, but within reasonable method recovery limits.
- JD54605-6 for Dichlorodifluoromethane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD54605-6 for Chloroform: Associated CCV outside of control limits high, sample was ND.
- JD54605-2 for Chloroform: Associated CCV outside of control limits high, sample was ND.
- JD54605-2 for Acetone: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD54605-2 for Dichlorodifluoromethane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

Monday, November 07, 2022

Page 1 of 2



## MS Volatiles By Method SW846 8260D

**Matrix:** AQ

**Batch ID:** V1U2018

- JD54605-8 for Chloroform: Associated CCV outside of control limits high, sample was ND.
- JD54605-6 for Acetone: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD54605-5 for Dichlorodifluoromethane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD54605-8 for Acetone: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD54605-8 for Dichlorodifluoromethane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

**Matrix:** AQ

**Batch ID:** V2U2018

- All samples were analyzed within the recommended method holding time.
- Sample(s) JD54605-4MS, JD54605-4MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Matrix Spike/Matrix Spike Duplicate Recovery(s) for Tetrachloroethene are outside control limits. Outside control limits due to high level in sample relative to spike amount.
- JD54605-4: Dilution required due to high concentration of target compound.
- JD54605-4 for Dichlorodifluoromethane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD54605-9 for Dichlorodifluoromethane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD54605-7 for Dichlorodifluoromethane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD54605-10 for Dichlorodifluoromethane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD54605-1 for Dichlorodifluoromethane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.
- JD54605-3 for Dichlorodifluoromethane: Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

SGS North America Inc. certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting the Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS North America Inc. is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by SGS North America Inc indicated via signature on the report cover

## Summary of Hits

**Job Number:** JD54605

**Account:** Fleming-Lee Shue, Inc.

**Project:** Info Tech High School, 21-16 44th Road, Long Island City, NY

**Collected:** 10/28/22

| Lab Sample ID                       | Client Sample ID | Result/<br>Qual | RL  | MDL  | Units | Method      |
|-------------------------------------|------------------|-----------------|-----|------|-------|-------------|
| <b>JD54605-1</b>                    | <b>MW-9</b>      |                 |     |      |       |             |
| Tetrachloroethene                   |                  | 25.7            | 1.0 | 0.56 | ug/l  | SW846 8260D |
| Trichloroethene                     |                  | 1.4             | 1.0 | 0.53 | ug/l  | SW846 8260D |
| <b>JD54605-2</b>                    | <b>BRMW-1</b>    |                 |     |      |       |             |
| Chlorobenzene                       |                  | 1.9             | 1.0 | 0.56 | ug/l  | SW846 8260D |
| cis-1,2-Dichloroethene              |                  | 8.2             | 1.0 | 0.51 | ug/l  | SW846 8260D |
| Tetrachloroethene                   |                  | 76.2            | 1.0 | 0.56 | ug/l  | SW846 8260D |
| Trichloroethene                     |                  | 8.2             | 1.0 | 0.53 | ug/l  | SW846 8260D |
| <b>JD54605-3</b>                    | <b>MW-8</b>      |                 |     |      |       |             |
| Tetrachloroethene                   |                  | 14.9            | 1.0 | 0.56 | ug/l  | SW846 8260D |
| Trichloroethene                     |                  | 0.61 J          | 1.0 | 0.53 | ug/l  | SW846 8260D |
| <b>JD54605-4</b>                    | <b>BRMW-2</b>    |                 |     |      |       |             |
| cis-1,2-Dichloroethene <sup>a</sup> |                  | 20.1            | 4.0 | 2.0  | ug/l  | SW846 8260D |
| Tetrachloroethene                   |                  | 974             | 50  | 28   | ug/l  | SW846 8260D |
| Trichloroethene <sup>a</sup>        |                  | 114             | 4.0 | 2.1  | ug/l  | SW846 8260D |
| <b>JD54605-5</b>                    | <b>MW-6</b>      |                 |     |      |       |             |
| cis-1,2-Dichloroethene              |                  | 9.5 J           | 10  | 5.1  | ug/l  | SW846 8260D |
| Tetrachloroethene                   |                  | 1690            | 10  | 5.6  | ug/l  | SW846 8260D |
| Trichloroethene                     |                  | 10.1            | 10  | 5.3  | ug/l  | SW846 8260D |
| <b>JD54605-6</b>                    | <b>RW-1</b>      |                 |     |      |       |             |
| cis-1,2-Dichloroethene              |                  | 177             | 1.0 | 0.51 | ug/l  | SW846 8260D |
| Tetrachloroethene                   |                  | 45.6            | 1.0 | 0.56 | ug/l  | SW846 8260D |
| Trichloroethene                     |                  | 2.1             | 1.0 | 0.53 | ug/l  | SW846 8260D |
| <b>JD54605-7</b>                    | <b>MW-7</b>      |                 |     |      |       |             |
| cis-1,2-Dichloroethene              |                  | 0.62 J          | 1.0 | 0.51 | ug/l  | SW846 8260D |
| Tetrachloroethene                   |                  | 122             | 1.0 | 0.56 | ug/l  | SW846 8260D |
| Trichloroethene                     |                  | 1.0             | 1.0 | 0.53 | ug/l  | SW846 8260D |
| <b>JD54605-8</b>                    | <b>MW-7 DUP</b>  |                 |     |      |       |             |
| cis-1,2-Dichloroethene              |                  | 1.0             | 1.0 | 0.51 | ug/l  | SW846 8260D |
| Tetrachloroethene                   |                  | 165             | 1.0 | 0.56 | ug/l  | SW846 8260D |

## Summary of Hits

Page 2 of 2

**Job Number:** JD54605

**Account:** Fleming-Lee Shue, Inc.

**Project:** Info Tech High School, 21-16 44th Road, Long Island City, NY

**Collected:** 10/28/22

| Lab Sample ID<br>Analyte           | Client Sample ID | Result/<br>Qual | RL  | MDL  | Units | Method      |
|------------------------------------|------------------|-----------------|-----|------|-------|-------------|
| Trichloroethene                    |                  | 1.1             | 1.0 | 0.53 | ug/l  | SW846 8260D |
| <b>JD54605-9      BRMW-3</b>       |                  |                 |     |      |       |             |
| cis-1,2-Dichloroethene             |                  | 12.4            | 1.0 | 0.51 | ug/l  | SW846 8260D |
| trans-1,2-Dichloroethene           |                  | 2.3             | 1.0 | 0.54 | ug/l  | SW846 8260D |
| Tetrachloroethene                  |                  | 353             | 10  | 5.6  | ug/l  | SW846 8260D |
| Trichloroethene                    |                  | 61.2            | 1.0 | 0.53 | ug/l  | SW846 8260D |
| <b>JD54605-10      FIELD BLANK</b> |                  |                 |     |      |       |             |
| Chloroform                         |                  | 8.5             | 1.0 | 0.50 | ug/l  | SW846 8260D |
| <b>JD54605-11      TRIP BLANK</b>  |                  |                 |     |      |       |             |
| Chloroform                         |                  | 8.3             | 1.0 | 0.50 | ug/l  | SW846 8260D |

(a) Dilution required due to high concentration of target compound.



Dayton, NJ

Section 4

4

Sample Results

Report of Analysis

SGS North America Inc.

## Report of Analysis

Page 1 of 2

|                          |                                                              |                        |          |
|--------------------------|--------------------------------------------------------------|------------------------|----------|
| <b>Client Sample ID:</b> | MW-9                                                         | <b>Date Sampled:</b>   | 10/28/22 |
| <b>Lab Sample ID:</b>    | JD54605-1                                                    | <b>Date Received:</b>  | 10/28/22 |
| <b>Matrix:</b>           | AQ - Ground Water                                            | <b>Percent Solids:</b> | n/a      |
| <b>Method:</b>           | SW846 8260D                                                  |                        |          |
| <b>Project:</b>          | Info Tech High School, 21-16 44th Road, Long Island City, NY |                        |          |

|        | File ID   | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|-----------|------------|------------------|
| Run #1 | 2U49721.D | 1  | 11/02/22 05:11 | ED | n/a       | n/a        | V2U2018          |
| Run #2 |           |    |                |    |           |            |                  |

|        | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml       |
| Run #2 |              |

## VOA TCL List (SOM0 1.1)

| CAS No.    | Compound                             | Result | RL   | MDL  | Units | Q |
|------------|--------------------------------------|--------|------|------|-------|---|
| 67-64-1    | Acetone                              | ND     | 10   | 3.1  | ug/l  |   |
| 71-43-2    | Benzene                              | ND     | 0.50 | 0.43 | ug/l  |   |
| 74-97-5    | Bromochloromethane                   | ND     | 1.0  | 0.48 | ug/l  |   |
| 75-27-4    | Bromodichloromethane                 | ND     | 1.0  | 0.45 | ug/l  |   |
| 75-25-2    | Bromoform                            | ND     | 1.0  | 0.63 | ug/l  |   |
| 74-83-9    | Bromomethane                         | ND     | 2.0  | 1.6  | ug/l  |   |
| 78-93-3    | 2-Butanone (MEK)                     | ND     | 10   | 2.7  | ug/l  |   |
| 75-15-0    | Carbon disulfide                     | ND     | 2.0  | 0.46 | ug/l  |   |
| 56-23-5    | Carbon tetrachloride                 | ND     | 1.0  | 0.55 | ug/l  |   |
| 108-90-7   | Chlorobenzene                        | ND     | 1.0  | 0.56 | ug/l  |   |
| 75-00-3    | Chloroethane                         | ND     | 1.0  | 0.73 | ug/l  |   |
| 67-66-3    | Chloroform                           | ND     | 1.0  | 0.50 | ug/l  |   |
| 74-87-3    | Chloromethane                        | ND     | 1.0  | 0.76 | ug/l  |   |
| 110-82-7   | Cyclohexane                          | ND     | 5.0  | 0.78 | ug/l  |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane          | ND     | 2.0  | 0.53 | ug/l  |   |
| 124-48-1   | Dibromochloromethane                 | ND     | 1.0  | 0.56 | ug/l  |   |
| 106-93-4   | 1,2-Dibromoethane                    | ND     | 1.0  | 0.48 | ug/l  |   |
| 95-50-1    | 1,2-Dichlorobenzene                  | ND     | 1.0  | 0.53 | ug/l  |   |
| 541-73-1   | 1,3-Dichlorobenzene                  | ND     | 1.0  | 0.54 | ug/l  |   |
| 106-46-7   | 1,4-Dichlorobenzene                  | ND     | 1.0  | 0.51 | ug/l  |   |
| 75-71-8    | Dichlorodifluoromethane <sup>a</sup> | ND     | 2.0  | 0.56 | ug/l  |   |
| 75-34-3    | 1,1-Dichloroethane                   | ND     | 1.0  | 0.57 | ug/l  |   |
| 107-06-2   | 1,2-Dichloroethane                   | ND     | 1.0  | 0.60 | ug/l  |   |
| 75-35-4    | 1,1-Dichloroethene                   | ND     | 1.0  | 0.59 | ug/l  |   |
| 156-59-2   | cis-1,2-Dichloroethene               | ND     | 1.0  | 0.51 | ug/l  |   |
| 156-60-5   | trans-1,2-Dichloroethene             | ND     | 1.0  | 0.54 | ug/l  |   |
| 78-87-5    | 1,2-Dichloropropane                  | ND     | 1.0  | 0.51 | ug/l  |   |
| 10061-01-5 | cis-1,3-Dichloropropene              | ND     | 1.0  | 0.47 | ug/l  |   |
| 10061-02-6 | trans-1,3-Dichloropropene            | ND     | 1.0  | 0.43 | ug/l  |   |
| 123-91-1   | 1,4-Dioxane                          | ND     | 130  | 19   | ug/l  |   |
| 100-41-4   | Ethylbenzene                         | ND     | 1.0  | 0.60 | ug/l  |   |
| 76-13-1    | Freon 113                            | ND     | 5.0  | 0.58 | ug/l  |   |

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

## Report of Analysis

|                          |                                                              |                        |          |
|--------------------------|--------------------------------------------------------------|------------------------|----------|
| <b>Client Sample ID:</b> | MW-9                                                         | <b>Date Sampled:</b>   | 10/28/22 |
| <b>Lab Sample ID:</b>    | JD54605-1                                                    | <b>Date Received:</b>  | 10/28/22 |
| <b>Matrix:</b>           | AQ - Ground Water                                            | <b>Percent Solids:</b> | n/a      |
| <b>Method:</b>           | SW846 8260D                                                  |                        |          |
| <b>Project:</b>          | Info Tech High School, 21-16 44th Road, Long Island City, NY |                        |          |

## VOA TCL List (SOM0 1.1)

| CAS No.   | Compound                   | Result | RL  | MDL  | Units | Q |
|-----------|----------------------------|--------|-----|------|-------|---|
| 591-78-6  | 2-Hexanone                 | ND     | 5.0 | 2.0  | ug/l  |   |
| 98-82-8   | Isopropylbenzene           | ND     | 1.0 | 0.65 | ug/l  |   |
| 79-20-9   | Methyl Acetate             | ND     | 5.0 | 0.80 | ug/l  |   |
| 108-87-2  | Methylcyclohexane          | ND     | 5.0 | 0.60 | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether    | ND     | 1.0 | 0.51 | ug/l  |   |
| 108-10-1  | 4-Methyl-2-pentanone(MIBK) | ND     | 5.0 | 1.9  | ug/l  |   |
| 75-09-2   | Methylene chloride         | ND     | 2.0 | 1.0  | ug/l  |   |
| 100-42-5  | Styrene                    | ND     | 1.0 | 0.49 | ug/l  |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane  | ND     | 1.0 | 0.65 | ug/l  |   |
| 127-18-4  | Tetrachloroethene          | 25.7   | 1.0 | 0.56 | ug/l  |   |
| 108-88-3  | Toluene                    | ND     | 1.0 | 0.49 | ug/l  |   |
| 87-61-6   | 1,2,3-Trichlorobenzene     | ND     | 1.0 | 0.50 | ug/l  |   |
| 120-82-1  | 1,2,4-Trichlorobenzene     | ND     | 1.0 | 0.50 | ug/l  |   |
| 71-55-6   | 1,1,1-Trichloroethane      | ND     | 1.0 | 0.54 | ug/l  |   |
| 79-00-5   | 1,1,2-Trichloroethane      | ND     | 1.0 | 0.53 | ug/l  |   |
| 79-01-6   | Trichloroethene            | 1.4    | 1.0 | 0.53 | ug/l  |   |
| 75-69-4   | Trichlorofluoromethane     | ND     | 2.0 | 0.40 | ug/l  |   |
| 75-01-4   | Vinyl chloride             | ND     | 1.0 | 0.52 | ug/l  |   |
|           | m,p-Xylene                 | ND     | 1.0 | 0.78 | ug/l  |   |
| 95-47-6   | o-Xylene                   | ND     | 1.0 | 0.59 | ug/l  |   |
| 1330-20-7 | Xylene (total)             | ND     | 1.0 | 0.59 | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 102%   |        | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 109%   |        | 80-120% |
| 2037-26-5  | Toluene-D8            | 103%   |        | 80-120% |
| 460-00-4   | 4-Bromofluorobenzene  | 98%    |        | 82-114% |

(a) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

ND = Not detected      MDL = Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

SGS North America Inc.

## Report of Analysis

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|                          |                                                              |                        |          |
|--------------------------|--------------------------------------------------------------|------------------------|----------|
| <b>Client Sample ID:</b> | BRMW-1                                                       | <b>Date Sampled:</b>   | 10/28/22 |
| <b>Lab Sample ID:</b>    | JD54605-2                                                    | <b>Date Received:</b>  | 10/28/22 |
| <b>Matrix:</b>           | AQ - Ground Water                                            | <b>Percent Solids:</b> | n/a      |
| <b>Method:</b>           | SW846 8260D                                                  |                        |          |
| <b>Project:</b>          | Info Tech High School, 21-16 44th Road, Long Island City, NY |                        |          |

|        | File ID   | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|-----------|------------|------------------|
| Run #1 | 1U49722.D | 1  | 11/02/22 05:25 | ED | n/a       | n/a        | V1U2018          |
| Run #2 |           |    |                |    |           |            |                  |

|        | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml       |
| Run #2 |              |

## VOA TCL List (SOM0 1.1)

| CAS No.    | Compound                             | Result | RL   | MDL  | Units | Q |
|------------|--------------------------------------|--------|------|------|-------|---|
| 67-64-1    | Acetone <sup>a</sup>                 | ND     | 10   | 3.1  | ug/l  |   |
| 71-43-2    | Benzene                              | ND     | 0.50 | 0.43 | ug/l  |   |
| 74-97-5    | Bromochloromethane                   | ND     | 1.0  | 0.48 | ug/l  |   |
| 75-27-4    | Bromodichloromethane                 | ND     | 1.0  | 0.45 | ug/l  |   |
| 75-25-2    | Bromoform                            | ND     | 1.0  | 0.63 | ug/l  |   |
| 74-83-9    | Bromomethane                         | ND     | 2.0  | 1.6  | ug/l  |   |
| 78-93-3    | 2-Butanone (MEK)                     | ND     | 10   | 2.7  | ug/l  |   |
| 75-15-0    | Carbon disulfide                     | ND     | 2.0  | 0.46 | ug/l  |   |
| 56-23-5    | Carbon tetrachloride                 | ND     | 1.0  | 0.55 | ug/l  |   |
| 108-90-7   | Chlorobenzene                        | 1.9    | 1.0  | 0.56 | ug/l  |   |
| 75-00-3    | Chloroethane                         | ND     | 1.0  | 0.73 | ug/l  |   |
| 67-66-3    | Chloroform <sup>b</sup>              | ND     | 1.0  | 0.50 | ug/l  |   |
| 74-87-3    | Chloromethane                        | ND     | 1.0  | 0.76 | ug/l  |   |
| 110-82-7   | Cyclohexane                          | ND     | 5.0  | 0.78 | ug/l  |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane          | ND     | 2.0  | 0.53 | ug/l  |   |
| 124-48-1   | Dibromochloromethane                 | ND     | 1.0  | 0.56 | ug/l  |   |
| 106-93-4   | 1,2-Dibromoethane                    | ND     | 1.0  | 0.48 | ug/l  |   |
| 95-50-1    | 1,2-Dichlorobenzene                  | ND     | 1.0  | 0.53 | ug/l  |   |
| 541-73-1   | 1,3-Dichlorobenzene                  | ND     | 1.0  | 0.54 | ug/l  |   |
| 106-46-7   | 1,4-Dichlorobenzene                  | ND     | 1.0  | 0.51 | ug/l  |   |
| 75-71-8    | Dichlorodifluoromethane <sup>a</sup> | ND     | 2.0  | 0.56 | ug/l  |   |
| 75-34-3    | 1,1-Dichloroethane                   | ND     | 1.0  | 0.57 | ug/l  |   |
| 107-06-2   | 1,2-Dichloroethane                   | ND     | 1.0  | 0.60 | ug/l  |   |
| 75-35-4    | 1,1-Dichloroethene                   | ND     | 1.0  | 0.59 | ug/l  |   |
| 156-59-2   | cis-1,2-Dichloroethene               | 8.2    | 1.0  | 0.51 | ug/l  |   |
| 156-60-5   | trans-1,2-Dichloroethene             | ND     | 1.0  | 0.54 | ug/l  |   |
| 78-87-5    | 1,2-Dichloropropane                  | ND     | 1.0  | 0.51 | ug/l  |   |
| 10061-01-5 | cis-1,3-Dichloropropene              | ND     | 1.0  | 0.47 | ug/l  |   |
| 10061-02-6 | trans-1,3-Dichloropropene            | ND     | 1.0  | 0.43 | ug/l  |   |
| 123-91-1   | 1,4-Dioxane                          | ND     | 130  | 19   | ug/l  |   |
| 100-41-4   | Ethylbenzene                         | ND     | 1.0  | 0.60 | ug/l  |   |
| 76-13-1    | Freon 113                            | ND     | 5.0  | 0.58 | ug/l  |   |

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

## Report of Analysis

|                          |                                                              |                        |          |
|--------------------------|--------------------------------------------------------------|------------------------|----------|
| <b>Client Sample ID:</b> | BRMW-1                                                       | <b>Date Sampled:</b>   | 10/28/22 |
| <b>Lab Sample ID:</b>    | JD54605-2                                                    | <b>Date Received:</b>  | 10/28/22 |
| <b>Matrix:</b>           | AQ - Ground Water                                            | <b>Percent Solids:</b> | n/a      |
| <b>Method:</b>           | SW846 8260D                                                  |                        |          |
| <b>Project:</b>          | Info Tech High School, 21-16 44th Road, Long Island City, NY |                        |          |

## VOA TCL List (SOM0 1.1)

| CAS No.   | Compound                   | Result | RL  | MDL  | Units | Q |
|-----------|----------------------------|--------|-----|------|-------|---|
| 591-78-6  | 2-Hexanone                 | ND     | 5.0 | 2.0  | ug/l  |   |
| 98-82-8   | Isopropylbenzene           | ND     | 1.0 | 0.65 | ug/l  |   |
| 79-20-9   | Methyl Acetate             | ND     | 5.0 | 0.80 | ug/l  |   |
| 108-87-2  | Methylcyclohexane          | ND     | 5.0 | 0.60 | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether    | ND     | 1.0 | 0.51 | ug/l  |   |
| 108-10-1  | 4-Methyl-2-pentanone(MIBK) | ND     | 5.0 | 1.9  | ug/l  |   |
| 75-09-2   | Methylene chloride         | ND     | 2.0 | 1.0  | ug/l  |   |
| 100-42-5  | Styrene                    | ND     | 1.0 | 0.49 | ug/l  |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane  | ND     | 1.0 | 0.65 | ug/l  |   |
| 127-18-4  | Tetrachloroethene          | 76.2   | 1.0 | 0.56 | ug/l  |   |
| 108-88-3  | Toluene                    | ND     | 1.0 | 0.49 | ug/l  |   |
| 87-61-6   | 1,2,3-Trichlorobenzene     | ND     | 1.0 | 0.50 | ug/l  |   |
| 120-82-1  | 1,2,4-Trichlorobenzene     | ND     | 1.0 | 0.50 | ug/l  |   |
| 71-55-6   | 1,1,1-Trichloroethane      | ND     | 1.0 | 0.54 | ug/l  |   |
| 79-00-5   | 1,1,2-Trichloroethane      | ND     | 1.0 | 0.53 | ug/l  |   |
| 79-01-6   | Trichloroethene            | 8.2    | 1.0 | 0.53 | ug/l  |   |
| 75-69-4   | Trichlorofluoromethane     | ND     | 2.0 | 0.40 | ug/l  |   |
| 75-01-4   | Vinyl chloride             | ND     | 1.0 | 0.52 | ug/l  |   |
|           | m,p-Xylene                 | ND     | 1.0 | 0.78 | ug/l  |   |
| 95-47-6   | o-Xylene                   | ND     | 1.0 | 0.59 | ug/l  |   |
| 1330-20-7 | Xylene (total)             | ND     | 1.0 | 0.59 | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 103%   |        | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 109%   |        | 80-120% |
| 2037-26-5  | Toluene-D8            | 104%   |        | 80-120% |
| 460-00-4   | 4-Bromofluorobenzene  | 95%    |        | 82-114% |

(a) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

(b) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound



SGS North America Inc.

## Report of Analysis

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|                          |                                                              |                        |          |
|--------------------------|--------------------------------------------------------------|------------------------|----------|
| <b>Client Sample ID:</b> | MW-8                                                         | <b>Date Sampled:</b>   | 10/28/22 |
| <b>Lab Sample ID:</b>    | JD54605-3                                                    | <b>Date Received:</b>  | 10/28/22 |
| <b>Matrix:</b>           | AQ - Ground Water                                            | <b>Percent Solids:</b> | n/a      |
| <b>Method:</b>           | SW846 8260D                                                  |                        |          |
| <b>Project:</b>          | Info Tech High School, 21-16 44th Road, Long Island City, NY |                        |          |

|        | File ID   | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|-----------|------------|------------------|
| Run #1 | 2U49723.D | 1  | 11/02/22 05:40 | ED | n/a       | n/a        | V2U2018          |
| Run #2 |           |    |                |    |           |            |                  |

|        | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml       |
| Run #2 |              |

## VOA TCL List (SOM0 1.1)

| CAS No.    | Compound                             | Result | RL   | MDL  | Units | Q |
|------------|--------------------------------------|--------|------|------|-------|---|
| 67-64-1    | Acetone                              | ND     | 10   | 3.1  | ug/l  |   |
| 71-43-2    | Benzene                              | ND     | 0.50 | 0.43 | ug/l  |   |
| 74-97-5    | Bromochloromethane                   | ND     | 1.0  | 0.48 | ug/l  |   |
| 75-27-4    | Bromodichloromethane                 | ND     | 1.0  | 0.45 | ug/l  |   |
| 75-25-2    | Bromoform                            | ND     | 1.0  | 0.63 | ug/l  |   |
| 74-83-9    | Bromomethane                         | ND     | 2.0  | 1.6  | ug/l  |   |
| 78-93-3    | 2-Butanone (MEK)                     | ND     | 10   | 2.7  | ug/l  |   |
| 75-15-0    | Carbon disulfide                     | ND     | 2.0  | 0.46 | ug/l  |   |
| 56-23-5    | Carbon tetrachloride                 | ND     | 1.0  | 0.55 | ug/l  |   |
| 108-90-7   | Chlorobenzene                        | ND     | 1.0  | 0.56 | ug/l  |   |
| 75-00-3    | Chloroethane                         | ND     | 1.0  | 0.73 | ug/l  |   |
| 67-66-3    | Chloroform                           | ND     | 1.0  | 0.50 | ug/l  |   |
| 74-87-3    | Chloromethane                        | ND     | 1.0  | 0.76 | ug/l  |   |
| 110-82-7   | Cyclohexane                          | ND     | 5.0  | 0.78 | ug/l  |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane          | ND     | 2.0  | 0.53 | ug/l  |   |
| 124-48-1   | Dibromochloromethane                 | ND     | 1.0  | 0.56 | ug/l  |   |
| 106-93-4   | 1,2-Dibromoethane                    | ND     | 1.0  | 0.48 | ug/l  |   |
| 95-50-1    | 1,2-Dichlorobenzene                  | ND     | 1.0  | 0.53 | ug/l  |   |
| 541-73-1   | 1,3-Dichlorobenzene                  | ND     | 1.0  | 0.54 | ug/l  |   |
| 106-46-7   | 1,4-Dichlorobenzene                  | ND     | 1.0  | 0.51 | ug/l  |   |
| 75-71-8    | Dichlorodifluoromethane <sup>a</sup> | ND     | 2.0  | 0.56 | ug/l  |   |
| 75-34-3    | 1,1-Dichloroethane                   | ND     | 1.0  | 0.57 | ug/l  |   |
| 107-06-2   | 1,2-Dichloroethane                   | ND     | 1.0  | 0.60 | ug/l  |   |
| 75-35-4    | 1,1-Dichloroethene                   | ND     | 1.0  | 0.59 | ug/l  |   |
| 156-59-2   | cis-1,2-Dichloroethene               | ND     | 1.0  | 0.51 | ug/l  |   |
| 156-60-5   | trans-1,2-Dichloroethene             | ND     | 1.0  | 0.54 | ug/l  |   |
| 78-87-5    | 1,2-Dichloropropane                  | ND     | 1.0  | 0.51 | ug/l  |   |
| 10061-01-5 | cis-1,3-Dichloropropene              | ND     | 1.0  | 0.47 | ug/l  |   |
| 10061-02-6 | trans-1,3-Dichloropropene            | ND     | 1.0  | 0.43 | ug/l  |   |
| 123-91-1   | 1,4-Dioxane                          | ND     | 130  | 19   | ug/l  |   |
| 100-41-4   | Ethylbenzene                         | ND     | 1.0  | 0.60 | ug/l  |   |
| 76-13-1    | Freon 113                            | ND     | 5.0  | 0.58 | ug/l  |   |

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

## Report of Analysis

|                          |                                                              |                        |          |
|--------------------------|--------------------------------------------------------------|------------------------|----------|
| <b>Client Sample ID:</b> | MW-8                                                         | <b>Date Sampled:</b>   | 10/28/22 |
| <b>Lab Sample ID:</b>    | JD54605-3                                                    | <b>Date Received:</b>  | 10/28/22 |
| <b>Matrix:</b>           | AQ - Ground Water                                            | <b>Percent Solids:</b> | n/a      |
| <b>Method:</b>           | SW846 8260D                                                  |                        |          |
| <b>Project:</b>          | Info Tech High School, 21-16 44th Road, Long Island City, NY |                        |          |

## VOA TCL List (SOM0 1.1)

| CAS No.   | Compound                   | Result | RL  | MDL  | Units | Q |
|-----------|----------------------------|--------|-----|------|-------|---|
| 591-78-6  | 2-Hexanone                 | ND     | 5.0 | 2.0  | ug/l  |   |
| 98-82-8   | Isopropylbenzene           | ND     | 1.0 | 0.65 | ug/l  |   |
| 79-20-9   | Methyl Acetate             | ND     | 5.0 | 0.80 | ug/l  |   |
| 108-87-2  | Methylcyclohexane          | ND     | 5.0 | 0.60 | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether    | ND     | 1.0 | 0.51 | ug/l  |   |
| 108-10-1  | 4-Methyl-2-pentanone(MIBK) | ND     | 5.0 | 1.9  | ug/l  |   |
| 75-09-2   | Methylene chloride         | ND     | 2.0 | 1.0  | ug/l  |   |
| 100-42-5  | Styrene                    | ND     | 1.0 | 0.49 | ug/l  |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane  | ND     | 1.0 | 0.65 | ug/l  |   |
| 127-18-4  | Tetrachloroethene          | 14.9   | 1.0 | 0.56 | ug/l  |   |
| 108-88-3  | Toluene                    | ND     | 1.0 | 0.49 | ug/l  |   |
| 87-61-6   | 1,2,3-Trichlorobenzene     | ND     | 1.0 | 0.50 | ug/l  |   |
| 120-82-1  | 1,2,4-Trichlorobenzene     | ND     | 1.0 | 0.50 | ug/l  |   |
| 71-55-6   | 1,1,1-Trichloroethane      | ND     | 1.0 | 0.54 | ug/l  |   |
| 79-00-5   | 1,1,2-Trichloroethane      | ND     | 1.0 | 0.53 | ug/l  |   |
| 79-01-6   | Trichloroethene            | 0.61   | 1.0 | 0.53 | ug/l  | J |
| 75-69-4   | Trichlorofluoromethane     | ND     | 2.0 | 0.40 | ug/l  |   |
| 75-01-4   | Vinyl chloride             | ND     | 1.0 | 0.52 | ug/l  |   |
|           | m,p-Xylene                 | ND     | 1.0 | 0.78 | ug/l  |   |
| 95-47-6   | o-Xylene                   | ND     | 1.0 | 0.59 | ug/l  |   |
| 1330-20-7 | Xylene (total)             | ND     | 1.0 | 0.59 | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 102%   |        | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 110%   |        | 80-120% |
| 2037-26-5  | Toluene-D8            | 103%   |        | 80-120% |
| 460-00-4   | 4-Bromofluorobenzene  | 98%    |        | 82-114% |

(a) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

ND = Not detected      MDL = Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

SGS North America Inc.

## Report of Analysis

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|                          |                                                              |                        |          |
|--------------------------|--------------------------------------------------------------|------------------------|----------|
| <b>Client Sample ID:</b> | BRMW-2                                                       | <b>Date Sampled:</b>   | 10/28/22 |
| <b>Lab Sample ID:</b>    | JD54605-4                                                    | <b>Date Received:</b>  | 10/28/22 |
| <b>Matrix:</b>           | AQ - Ground Water                                            | <b>Percent Solids:</b> | n/a      |
| <b>Method:</b>           | SW846 8260D                                                  |                        |          |
| <b>Project:</b>          | Info Tech High School, 21-16 44th Road, Long Island City, NY |                        |          |

|                     | File ID   | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|---------------------|-----------|----|----------------|----|-----------|------------|------------------|
| Run #1 <sup>a</sup> | 2U49699.D | 4  | 11/01/22 23:51 | ED | n/a       | n/a        | V2U2018          |
| Run #2              | 1K01239.D | 50 | 11/02/22 13:13 | TS | n/a       | n/a        | V1K38            |

|        | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml       |
| Run #2 | 5.0 ml       |

## VOA TCL List (SOM0 1.1)

| CAS No.    | Compound                             | Result | RL  | MDL | Units | Q |
|------------|--------------------------------------|--------|-----|-----|-------|---|
| 67-64-1    | Acetone                              | ND     | 40  | 12  | ug/l  |   |
| 71-43-2    | Benzene                              | ND     | 2.0 | 1.7 | ug/l  |   |
| 74-97-5    | Bromochloromethane                   | ND     | 4.0 | 1.9 | ug/l  |   |
| 75-27-4    | Bromodichloromethane                 | ND     | 4.0 | 1.8 | ug/l  |   |
| 75-25-2    | Bromoform                            | ND     | 4.0 | 2.5 | ug/l  |   |
| 74-83-9    | Bromomethane                         | ND     | 8.0 | 6.6 | ug/l  |   |
| 78-93-3    | 2-Butanone (MEK)                     | ND     | 40  | 11  | ug/l  |   |
| 75-15-0    | Carbon disulfide                     | ND     | 8.0 | 1.8 | ug/l  |   |
| 56-23-5    | Carbon tetrachloride                 | ND     | 4.0 | 2.2 | ug/l  |   |
| 108-90-7   | Chlorobenzene                        | ND     | 4.0 | 2.2 | ug/l  |   |
| 75-00-3    | Chloroethane                         | ND     | 4.0 | 2.9 | ug/l  |   |
| 67-66-3    | Chloroform                           | ND     | 4.0 | 2.0 | ug/l  |   |
| 74-87-3    | Chloromethane                        | ND     | 4.0 | 3.0 | ug/l  |   |
| 110-82-7   | Cyclohexane                          | ND     | 20  | 3.1 | ug/l  |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane          | ND     | 8.0 | 2.1 | ug/l  |   |
| 124-48-1   | Dibromochloromethane                 | ND     | 4.0 | 2.2 | ug/l  |   |
| 106-93-4   | 1,2-Dibromoethane                    | ND     | 4.0 | 1.9 | ug/l  |   |
| 95-50-1    | 1,2-Dichlorobenzene                  | ND     | 4.0 | 2.1 | ug/l  |   |
| 541-73-1   | 1,3-Dichlorobenzene                  | ND     | 4.0 | 2.2 | ug/l  |   |
| 106-46-7   | 1,4-Dichlorobenzene                  | ND     | 4.0 | 2.0 | ug/l  |   |
| 75-71-8    | Dichlorodifluoromethane <sup>b</sup> | ND     | 8.0 | 2.2 | ug/l  |   |
| 75-34-3    | 1,1-Dichloroethane                   | ND     | 4.0 | 2.3 | ug/l  |   |
| 107-06-2   | 1,2-Dichloroethane                   | ND     | 4.0 | 2.4 | ug/l  |   |
| 75-35-4    | 1,1-Dichloroethene                   | ND     | 4.0 | 2.4 | ug/l  |   |
| 156-59-2   | cis-1,2-Dichloroethene               | 20.1   | 4.0 | 2.0 | ug/l  |   |
| 156-60-5   | trans-1,2-Dichloroethene             | ND     | 4.0 | 2.1 | ug/l  |   |
| 78-87-5    | 1,2-Dichloropropane                  | ND     | 4.0 | 2.0 | ug/l  |   |
| 10061-01-5 | cis-1,3-Dichloropropene              | ND     | 4.0 | 1.9 | ug/l  |   |
| 10061-02-6 | trans-1,3-Dichloropropene            | ND     | 4.0 | 1.7 | ug/l  |   |
| 123-91-1   | 1,4-Dioxane                          | ND     | 500 | 77  | ug/l  |   |
| 100-41-4   | Ethylbenzene                         | ND     | 4.0 | 2.4 | ug/l  |   |
| 76-13-1    | Freon 113                            | ND     | 20  | 2.3 | ug/l  |   |

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

## Report of Analysis

|                          |                                                              |                        |          |
|--------------------------|--------------------------------------------------------------|------------------------|----------|
| <b>Client Sample ID:</b> | BRMW-2                                                       | <b>Date Sampled:</b>   | 10/28/22 |
| <b>Lab Sample ID:</b>    | JD54605-4                                                    | <b>Date Received:</b>  | 10/28/22 |
| <b>Matrix:</b>           | AQ - Ground Water                                            | <b>Percent Solids:</b> | n/a      |
| <b>Method:</b>           | SW846 8260D                                                  |                        |          |
| <b>Project:</b>          | Info Tech High School, 21-16 44th Road, Long Island City, NY |                        |          |

## VOA TCL List (SOM0 1.1)

| CAS No.   | Compound                   | Result           | RL  | MDL | Units | Q |
|-----------|----------------------------|------------------|-----|-----|-------|---|
| 591-78-6  | 2-Hexanone                 | ND               | 20  | 8.1 | ug/l  |   |
| 98-82-8   | Isopropylbenzene           | ND               | 4.0 | 2.6 | ug/l  |   |
| 79-20-9   | Methyl Acetate             | ND               | 20  | 3.2 | ug/l  |   |
| 108-87-2  | Methylcyclohexane          | ND               | 20  | 2.4 | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether    | ND               | 4.0 | 2.0 | ug/l  |   |
| 108-10-1  | 4-Methyl-2-pentanone(MIBK) | ND               | 20  | 7.4 | ug/l  |   |
| 75-09-2   | Methylene chloride         | ND               | 8.0 | 4.0 | ug/l  |   |
| 100-42-5  | Styrene                    | ND               | 4.0 | 1.9 | ug/l  |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane  | ND               | 4.0 | 2.6 | ug/l  |   |
| 127-18-4  | Tetrachloroethene          | 974 <sup>c</sup> | 50  | 28  | ug/l  |   |
| 108-88-3  | Toluene                    | ND               | 4.0 | 2.0 | ug/l  |   |
| 87-61-6   | 1,2,3-Trichlorobenzene     | ND               | 4.0 | 2.0 | ug/l  |   |
| 120-82-1  | 1,2,4-Trichlorobenzene     | ND               | 4.0 | 2.0 | ug/l  |   |
| 71-55-6   | 1,1,1-Trichloroethane      | ND               | 4.0 | 2.1 | ug/l  |   |
| 79-00-5   | 1,1,2-Trichloroethane      | ND               | 4.0 | 2.1 | ug/l  |   |
| 79-01-6   | Trichloroethene            | 114              | 4.0 | 2.1 | ug/l  |   |
| 75-69-4   | Trichlorofluoromethane     | ND               | 8.0 | 1.6 | ug/l  |   |
| 75-01-4   | Vinyl chloride             | ND               | 4.0 | 2.1 | ug/l  |   |
|           | m,p-Xylene                 | ND               | 4.0 | 3.1 | ug/l  |   |
| 95-47-6   | o-Xylene                   | ND               | 4.0 | 2.4 | ug/l  |   |
| 1330-20-7 | Xylene (total)             | ND               | 4.0 | 2.4 | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 102%   | 100%   | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 108%   | 104%   | 80-120% |
| 2037-26-5  | Toluene-D8            | 105%   | 104%   | 80-120% |
| 460-00-4   | 4-Bromofluorobenzene  | 96%    | 111%   | 82-114% |

(a) Dilution required due to high concentration of target compound.

(b) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

(c) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

SGS North America Inc.

## Report of Analysis

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|                          |                                                              |                        |          |
|--------------------------|--------------------------------------------------------------|------------------------|----------|
| <b>Client Sample ID:</b> | MW-6                                                         | <b>Date Sampled:</b>   | 10/28/22 |
| <b>Lab Sample ID:</b>    | JD54605-5                                                    | <b>Date Received:</b>  | 10/28/22 |
| <b>Matrix:</b>           | AQ - Ground Water                                            | <b>Percent Solids:</b> | n/a      |
| <b>Method:</b>           | SW846 8260D                                                  |                        |          |
| <b>Project:</b>          | Info Tech High School, 21-16 44th Road, Long Island City, NY |                        |          |

|        | File ID   | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|-----------|------------|------------------|
| Run #1 | 1U49700.D | 10 | 11/02/22 00:05 | ED | n/a       | n/a        | V1U2018          |
| Run #2 |           |    |                |    |           |            |                  |

|        | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml       |
| Run #2 |              |

## VOA TCL List (SOM0 1.1)

| CAS No.    | Compound                             | Result | RL   | MDL | Units | Q |
|------------|--------------------------------------|--------|------|-----|-------|---|
| 67-64-1    | Acetone <sup>a</sup>                 | ND     | 100  | 31  | ug/l  |   |
| 71-43-2    | Benzene                              | ND     | 5.0  | 4.3 | ug/l  |   |
| 74-97-5    | Bromochloromethane                   | ND     | 10   | 4.8 | ug/l  |   |
| 75-27-4    | Bromodichloromethane                 | ND     | 10   | 4.5 | ug/l  |   |
| 75-25-2    | Bromoform                            | ND     | 10   | 6.3 | ug/l  |   |
| 74-83-9    | Bromomethane                         | ND     | 20   | 16  | ug/l  |   |
| 78-93-3    | 2-Butanone (MEK)                     | ND     | 100  | 27  | ug/l  |   |
| 75-15-0    | Carbon disulfide                     | ND     | 20   | 4.6 | ug/l  |   |
| 56-23-5    | Carbon tetrachloride                 | ND     | 10   | 5.5 | ug/l  |   |
| 108-90-7   | Chlorobenzene                        | ND     | 10   | 5.6 | ug/l  |   |
| 75-00-3    | Chloroethane                         | ND     | 10   | 7.3 | ug/l  |   |
| 67-66-3    | Chloroform <sup>b</sup>              | ND     | 10   | 5.0 | ug/l  |   |
| 74-87-3    | Chloromethane                        | ND     | 10   | 7.6 | ug/l  |   |
| 110-82-7   | Cyclohexane                          | ND     | 50   | 7.8 | ug/l  |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane          | ND     | 20   | 5.3 | ug/l  |   |
| 124-48-1   | Dibromochloromethane                 | ND     | 10   | 5.6 | ug/l  |   |
| 106-93-4   | 1,2-Dibromoethane                    | ND     | 10   | 4.8 | ug/l  |   |
| 95-50-1    | 1,2-Dichlorobenzene                  | ND     | 10   | 5.3 | ug/l  |   |
| 541-73-1   | 1,3-Dichlorobenzene                  | ND     | 10   | 5.4 | ug/l  |   |
| 106-46-7   | 1,4-Dichlorobenzene                  | ND     | 10   | 5.1 | ug/l  |   |
| 75-71-8    | Dichlorodifluoromethane <sup>a</sup> | ND     | 20   | 5.6 | ug/l  |   |
| 75-34-3    | 1,1-Dichloroethane                   | ND     | 10   | 5.7 | ug/l  |   |
| 107-06-2   | 1,2-Dichloroethane                   | ND     | 10   | 6.0 | ug/l  |   |
| 75-35-4    | 1,1-Dichloroethene                   | ND     | 10   | 5.9 | ug/l  |   |
| 156-59-2   | cis-1,2-Dichloroethene               | 9.5    | 10   | 5.1 | ug/l  | J |
| 156-60-5   | trans-1,2-Dichloroethene             | ND     | 10   | 5.4 | ug/l  |   |
| 78-87-5    | 1,2-Dichloropropane                  | ND     | 10   | 5.1 | ug/l  |   |
| 10061-01-5 | cis-1,3-Dichloropropene              | ND     | 10   | 4.7 | ug/l  |   |
| 10061-02-6 | trans-1,3-Dichloropropene            | ND     | 10   | 4.3 | ug/l  |   |
| 123-91-1   | 1,4-Dioxane                          | ND     | 1300 | 190 | ug/l  |   |
| 100-41-4   | Ethylbenzene                         | ND     | 10   | 6.0 | ug/l  |   |
| 76-13-1    | Freon 113                            | ND     | 50   | 5.8 | ug/l  |   |

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

## Report of Analysis

|                          |                                                              |                        |          |
|--------------------------|--------------------------------------------------------------|------------------------|----------|
| <b>Client Sample ID:</b> | MW-6                                                         | <b>Date Sampled:</b>   | 10/28/22 |
| <b>Lab Sample ID:</b>    | JD54605-5                                                    | <b>Date Received:</b>  | 10/28/22 |
| <b>Matrix:</b>           | AQ - Ground Water                                            | <b>Percent Solids:</b> | n/a      |
| <b>Method:</b>           | SW846 8260D                                                  |                        |          |
| <b>Project:</b>          | Info Tech High School, 21-16 44th Road, Long Island City, NY |                        |          |

## VOA TCL List (SOM0 1.1)

| CAS No.   | Compound                   | Result | RL | MDL | Units | Q |
|-----------|----------------------------|--------|----|-----|-------|---|
| 591-78-6  | 2-Hexanone                 | ND     | 50 | 20  | ug/l  |   |
| 98-82-8   | Isopropylbenzene           | ND     | 10 | 6.5 | ug/l  |   |
| 79-20-9   | Methyl Acetate             | ND     | 50 | 8.0 | ug/l  |   |
| 108-87-2  | Methylcyclohexane          | ND     | 50 | 6.0 | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether    | ND     | 10 | 5.1 | ug/l  |   |
| 108-10-1  | 4-Methyl-2-pentanone(MIBK) | ND     | 50 | 19  | ug/l  |   |
| 75-09-2   | Methylene chloride         | ND     | 20 | 10  | ug/l  |   |
| 100-42-5  | Styrene                    | ND     | 10 | 4.9 | ug/l  |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane  | ND     | 10 | 6.5 | ug/l  |   |
| 127-18-4  | Tetrachloroethene          | 1690   | 10 | 5.6 | ug/l  |   |
| 108-88-3  | Toluene                    | ND     | 10 | 4.9 | ug/l  |   |
| 87-61-6   | 1,2,3-Trichlorobenzene     | ND     | 10 | 5.0 | ug/l  |   |
| 120-82-1  | 1,2,4-Trichlorobenzene     | ND     | 10 | 5.0 | ug/l  |   |
| 71-55-6   | 1,1,1-Trichloroethane      | ND     | 10 | 5.4 | ug/l  |   |
| 79-00-5   | 1,1,2-Trichloroethane      | ND     | 10 | 5.3 | ug/l  |   |
| 79-01-6   | Trichloroethene            | 10.1   | 10 | 5.3 | ug/l  |   |
| 75-69-4   | Trichlorofluoromethane     | ND     | 20 | 4.0 | ug/l  |   |
| 75-01-4   | Vinyl chloride             | ND     | 10 | 5.2 | ug/l  |   |
|           | m,p-Xylene                 | ND     | 10 | 7.8 | ug/l  |   |
| 95-47-6   | o-Xylene                   | ND     | 10 | 5.9 | ug/l  |   |
| 1330-20-7 | Xylene (total)             | ND     | 10 | 5.9 | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 102%   |        | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 109%   |        | 80-120% |
| 2037-26-5  | Toluene-D8            | 105%   |        | 80-120% |
| 460-00-4   | 4-Bromofluorobenzene  | 96%    |        | 82-114% |

(a) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

(b) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

SGS North America Inc.

## Report of Analysis

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|                          |                                                              |                        |          |
|--------------------------|--------------------------------------------------------------|------------------------|----------|
| <b>Client Sample ID:</b> | RW-1                                                         | <b>Date Sampled:</b>   | 10/28/22 |
| <b>Lab Sample ID:</b>    | JD54605-6                                                    | <b>Date Received:</b>  | 10/28/22 |
| <b>Matrix:</b>           | AQ - Ground Water                                            | <b>Percent Solids:</b> | n/a      |
| <b>Method:</b>           | SW846 8260D                                                  |                        |          |
| <b>Project:</b>          | Info Tech High School, 21-16 44th Road, Long Island City, NY |                        |          |

|        | File ID   | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|-----------|------------|------------------|
| Run #1 | 1U49724.D | 1  | 11/02/22 05:54 | ED | n/a       | n/a        | V1U2018          |
| Run #2 |           |    |                |    |           |            |                  |

|        | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml       |
| Run #2 |              |

## VOA TCL List (SOM0 1.1)

| CAS No.    | Compound                             | Result | RL   | MDL  | Units | Q |
|------------|--------------------------------------|--------|------|------|-------|---|
| 67-64-1    | Acetone <sup>a</sup>                 | ND     | 10   | 3.1  | ug/l  |   |
| 71-43-2    | Benzene                              | ND     | 0.50 | 0.43 | ug/l  |   |
| 74-97-5    | Bromochloromethane                   | ND     | 1.0  | 0.48 | ug/l  |   |
| 75-27-4    | Bromodichloromethane                 | ND     | 1.0  | 0.45 | ug/l  |   |
| 75-25-2    | Bromoform                            | ND     | 1.0  | 0.63 | ug/l  |   |
| 74-83-9    | Bromomethane                         | ND     | 2.0  | 1.6  | ug/l  |   |
| 78-93-3    | 2-Butanone (MEK)                     | ND     | 10   | 2.7  | ug/l  |   |
| 75-15-0    | Carbon disulfide                     | ND     | 2.0  | 0.46 | ug/l  |   |
| 56-23-5    | Carbon tetrachloride                 | ND     | 1.0  | 0.55 | ug/l  |   |
| 108-90-7   | Chlorobenzene                        | ND     | 1.0  | 0.56 | ug/l  |   |
| 75-00-3    | Chloroethane                         | ND     | 1.0  | 0.73 | ug/l  |   |
| 67-66-3    | Chloroform <sup>b</sup>              | ND     | 1.0  | 0.50 | ug/l  |   |
| 74-87-3    | Chloromethane                        | ND     | 1.0  | 0.76 | ug/l  |   |
| 110-82-7   | Cyclohexane                          | ND     | 5.0  | 0.78 | ug/l  |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane          | ND     | 2.0  | 0.53 | ug/l  |   |
| 124-48-1   | Dibromochloromethane                 | ND     | 1.0  | 0.56 | ug/l  |   |
| 106-93-4   | 1,2-Dibromoethane                    | ND     | 1.0  | 0.48 | ug/l  |   |
| 95-50-1    | 1,2-Dichlorobenzene                  | ND     | 1.0  | 0.53 | ug/l  |   |
| 541-73-1   | 1,3-Dichlorobenzene                  | ND     | 1.0  | 0.54 | ug/l  |   |
| 106-46-7   | 1,4-Dichlorobenzene                  | ND     | 1.0  | 0.51 | ug/l  |   |
| 75-71-8    | Dichlorodifluoromethane <sup>a</sup> | ND     | 2.0  | 0.56 | ug/l  |   |
| 75-34-3    | 1,1-Dichloroethane                   | ND     | 1.0  | 0.57 | ug/l  |   |
| 107-06-2   | 1,2-Dichloroethane                   | ND     | 1.0  | 0.60 | ug/l  |   |
| 75-35-4    | 1,1-Dichloroethene                   | ND     | 1.0  | 0.59 | ug/l  |   |
| 156-59-2   | cis-1,2-Dichloroethene               | 177    | 1.0  | 0.51 | ug/l  |   |
| 156-60-5   | trans-1,2-Dichloroethene             | ND     | 1.0  | 0.54 | ug/l  |   |
| 78-87-5    | 1,2-Dichloropropane                  | ND     | 1.0  | 0.51 | ug/l  |   |
| 10061-01-5 | cis-1,3-Dichloropropene              | ND     | 1.0  | 0.47 | ug/l  |   |
| 10061-02-6 | trans-1,3-Dichloropropene            | ND     | 1.0  | 0.43 | ug/l  |   |
| 123-91-1   | 1,4-Dioxane                          | ND     | 130  | 19   | ug/l  |   |
| 100-41-4   | Ethylbenzene                         | ND     | 1.0  | 0.60 | ug/l  |   |
| 76-13-1    | Freon 113                            | ND     | 5.0  | 0.58 | ug/l  |   |

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

## Report of Analysis

|                          |                                                              |                        |          |
|--------------------------|--------------------------------------------------------------|------------------------|----------|
| <b>Client Sample ID:</b> | RW-1                                                         | <b>Date Sampled:</b>   | 10/28/22 |
| <b>Lab Sample ID:</b>    | JD54605-6                                                    | <b>Date Received:</b>  | 10/28/22 |
| <b>Matrix:</b>           | AQ - Ground Water                                            | <b>Percent Solids:</b> | n/a      |
| <b>Method:</b>           | SW846 8260D                                                  |                        |          |
| <b>Project:</b>          | Info Tech High School, 21-16 44th Road, Long Island City, NY |                        |          |

## VOA TCL List (SOM0 1.1)

| CAS No.   | Compound                   | Result | RL  | MDL  | Units | Q |
|-----------|----------------------------|--------|-----|------|-------|---|
| 591-78-6  | 2-Hexanone                 | ND     | 5.0 | 2.0  | ug/l  |   |
| 98-82-8   | Isopropylbenzene           | ND     | 1.0 | 0.65 | ug/l  |   |
| 79-20-9   | Methyl Acetate             | ND     | 5.0 | 0.80 | ug/l  |   |
| 108-87-2  | Methylcyclohexane          | ND     | 5.0 | 0.60 | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether    | ND     | 1.0 | 0.51 | ug/l  |   |
| 108-10-1  | 4-Methyl-2-pentanone(MIBK) | ND     | 5.0 | 1.9  | ug/l  |   |
| 75-09-2   | Methylene chloride         | ND     | 2.0 | 1.0  | ug/l  |   |
| 100-42-5  | Styrene                    | ND     | 1.0 | 0.49 | ug/l  |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane  | ND     | 1.0 | 0.65 | ug/l  |   |
| 127-18-4  | Tetrachloroethene          | 45.6   | 1.0 | 0.56 | ug/l  |   |
| 108-88-3  | Toluene                    | ND     | 1.0 | 0.49 | ug/l  |   |
| 87-61-6   | 1,2,3-Trichlorobenzene     | ND     | 1.0 | 0.50 | ug/l  |   |
| 120-82-1  | 1,2,4-Trichlorobenzene     | ND     | 1.0 | 0.50 | ug/l  |   |
| 71-55-6   | 1,1,1-Trichloroethane      | ND     | 1.0 | 0.54 | ug/l  |   |
| 79-00-5   | 1,1,2-Trichloroethane      | ND     | 1.0 | 0.53 | ug/l  |   |
| 79-01-6   | Trichloroethene            | 2.1    | 1.0 | 0.53 | ug/l  |   |
| 75-69-4   | Trichlorofluoromethane     | ND     | 2.0 | 0.40 | ug/l  |   |
| 75-01-4   | Vinyl chloride             | ND     | 1.0 | 0.52 | ug/l  |   |
|           | m,p-Xylene                 | ND     | 1.0 | 0.78 | ug/l  |   |
| 95-47-6   | o-Xylene                   | ND     | 1.0 | 0.59 | ug/l  |   |
| 1330-20-7 | Xylene (total)             | ND     | 1.0 | 0.59 | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 102%   |        | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 109%   |        | 80-120% |
| 2037-26-5  | Toluene-D8            | 103%   |        | 80-120% |
| 460-00-4   | 4-Bromofluorobenzene  | 95%    |        | 82-114% |

(a) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

(b) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound



SGS North America Inc.

## Report of Analysis

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|                          |                                                              |                        |          |
|--------------------------|--------------------------------------------------------------|------------------------|----------|
| <b>Client Sample ID:</b> | MW-7                                                         | <b>Date Sampled:</b>   | 10/28/22 |
| <b>Lab Sample ID:</b>    | JD54605-7                                                    | <b>Date Received:</b>  | 10/28/22 |
| <b>Matrix:</b>           | AQ - Ground Water                                            | <b>Percent Solids:</b> | n/a      |
| <b>Method:</b>           | SW846 8260D                                                  |                        |          |
| <b>Project:</b>          | Info Tech High School, 21-16 44th Road, Long Island City, NY |                        |          |

|        | File ID   | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|-----------|------------|------------------|
| Run #1 | 2U49725.D | 1  | 11/02/22 06:09 | ED | n/a       | n/a        | V2U2018          |
| Run #2 |           |    |                |    |           |            |                  |

|        | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml       |
| Run #2 |              |

## VOA TCL List (SOM0 1.1)

| CAS No.    | Compound                             | Result | RL   | MDL  | Units | Q |
|------------|--------------------------------------|--------|------|------|-------|---|
| 67-64-1    | Acetone                              | ND     | 10   | 3.1  | ug/l  |   |
| 71-43-2    | Benzene                              | ND     | 0.50 | 0.43 | ug/l  |   |
| 74-97-5    | Bromochloromethane                   | ND     | 1.0  | 0.48 | ug/l  |   |
| 75-27-4    | Bromodichloromethane                 | ND     | 1.0  | 0.45 | ug/l  |   |
| 75-25-2    | Bromoform                            | ND     | 1.0  | 0.63 | ug/l  |   |
| 74-83-9    | Bromomethane                         | ND     | 2.0  | 1.6  | ug/l  |   |
| 78-93-3    | 2-Butanone (MEK)                     | ND     | 10   | 2.7  | ug/l  |   |
| 75-15-0    | Carbon disulfide                     | ND     | 2.0  | 0.46 | ug/l  |   |
| 56-23-5    | Carbon tetrachloride                 | ND     | 1.0  | 0.55 | ug/l  |   |
| 108-90-7   | Chlorobenzene                        | ND     | 1.0  | 0.56 | ug/l  |   |
| 75-00-3    | Chloroethane                         | ND     | 1.0  | 0.73 | ug/l  |   |
| 67-66-3    | Chloroform                           | ND     | 1.0  | 0.50 | ug/l  |   |
| 74-87-3    | Chloromethane                        | ND     | 1.0  | 0.76 | ug/l  |   |
| 110-82-7   | Cyclohexane                          | ND     | 5.0  | 0.78 | ug/l  |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane          | ND     | 2.0  | 0.53 | ug/l  |   |
| 124-48-1   | Dibromochloromethane                 | ND     | 1.0  | 0.56 | ug/l  |   |
| 106-93-4   | 1,2-Dibromoethane                    | ND     | 1.0  | 0.48 | ug/l  |   |
| 95-50-1    | 1,2-Dichlorobenzene                  | ND     | 1.0  | 0.53 | ug/l  |   |
| 541-73-1   | 1,3-Dichlorobenzene                  | ND     | 1.0  | 0.54 | ug/l  |   |
| 106-46-7   | 1,4-Dichlorobenzene                  | ND     | 1.0  | 0.51 | ug/l  |   |
| 75-71-8    | Dichlorodifluoromethane <sup>a</sup> | ND     | 2.0  | 0.56 | ug/l  |   |
| 75-34-3    | 1,1-Dichloroethane                   | ND     | 1.0  | 0.57 | ug/l  |   |
| 107-06-2   | 1,2-Dichloroethane                   | ND     | 1.0  | 0.60 | ug/l  |   |
| 75-35-4    | 1,1-Dichloroethene                   | ND     | 1.0  | 0.59 | ug/l  |   |
| 156-59-2   | cis-1,2-Dichloroethene               | 0.62   | 1.0  | 0.51 | ug/l  | J |
| 156-60-5   | trans-1,2-Dichloroethene             | ND     | 1.0  | 0.54 | ug/l  |   |
| 78-87-5    | 1,2-Dichloropropane                  | ND     | 1.0  | 0.51 | ug/l  |   |
| 10061-01-5 | cis-1,3-Dichloropropene              | ND     | 1.0  | 0.47 | ug/l  |   |
| 10061-02-6 | trans-1,3-Dichloropropene            | ND     | 1.0  | 0.43 | ug/l  |   |
| 123-91-1   | 1,4-Dioxane                          | ND     | 130  | 19   | ug/l  |   |
| 100-41-4   | Ethylbenzene                         | ND     | 1.0  | 0.60 | ug/l  |   |
| 76-13-1    | Freon 113                            | ND     | 5.0  | 0.58 | ug/l  |   |

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

## Report of Analysis

|                          |                                                              |                        |          |
|--------------------------|--------------------------------------------------------------|------------------------|----------|
| <b>Client Sample ID:</b> | MW-7                                                         | <b>Date Sampled:</b>   | 10/28/22 |
| <b>Lab Sample ID:</b>    | JD54605-7                                                    | <b>Date Received:</b>  | 10/28/22 |
| <b>Matrix:</b>           | AQ - Ground Water                                            | <b>Percent Solids:</b> | n/a      |
| <b>Method:</b>           | SW846 8260D                                                  |                        |          |
| <b>Project:</b>          | Info Tech High School, 21-16 44th Road, Long Island City, NY |                        |          |

## VOA TCL List (SOM0 1.1)

| CAS No.   | Compound                   | Result | RL  | MDL  | Units | Q |
|-----------|----------------------------|--------|-----|------|-------|---|
| 591-78-6  | 2-Hexanone                 | ND     | 5.0 | 2.0  | ug/l  |   |
| 98-82-8   | Isopropylbenzene           | ND     | 1.0 | 0.65 | ug/l  |   |
| 79-20-9   | Methyl Acetate             | ND     | 5.0 | 0.80 | ug/l  |   |
| 108-87-2  | Methylcyclohexane          | ND     | 5.0 | 0.60 | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether    | ND     | 1.0 | 0.51 | ug/l  |   |
| 108-10-1  | 4-Methyl-2-pentanone(MIBK) | ND     | 5.0 | 1.9  | ug/l  |   |
| 75-09-2   | Methylene chloride         | ND     | 2.0 | 1.0  | ug/l  |   |
| 100-42-5  | Styrene                    | ND     | 1.0 | 0.49 | ug/l  |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane  | ND     | 1.0 | 0.65 | ug/l  |   |
| 127-18-4  | Tetrachloroethene          | 122    | 1.0 | 0.56 | ug/l  |   |
| 108-88-3  | Toluene                    | ND     | 1.0 | 0.49 | ug/l  |   |
| 87-61-6   | 1,2,3-Trichlorobenzene     | ND     | 1.0 | 0.50 | ug/l  |   |
| 120-82-1  | 1,2,4-Trichlorobenzene     | ND     | 1.0 | 0.50 | ug/l  |   |
| 71-55-6   | 1,1,1-Trichloroethane      | ND     | 1.0 | 0.54 | ug/l  |   |
| 79-00-5   | 1,1,2-Trichloroethane      | ND     | 1.0 | 0.53 | ug/l  |   |
| 79-01-6   | Trichloroethene            | 1.0    | 1.0 | 0.53 | ug/l  |   |
| 75-69-4   | Trichlorofluoromethane     | ND     | 2.0 | 0.40 | ug/l  |   |
| 75-01-4   | Vinyl chloride             | ND     | 1.0 | 0.52 | ug/l  |   |
|           | m,p-Xylene                 | ND     | 1.0 | 0.78 | ug/l  |   |
| 95-47-6   | o-Xylene                   | ND     | 1.0 | 0.59 | ug/l  |   |
| 1330-20-7 | Xylene (total)             | ND     | 1.0 | 0.59 | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 102%   |        | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 108%   |        | 80-120% |
| 2037-26-5  | Toluene-D8            | 104%   |        | 80-120% |
| 460-00-4   | 4-Bromofluorobenzene  | 97%    |        | 82-114% |

(a) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

ND = Not detected      MDL = Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

SGS North America Inc.

## Report of Analysis

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|                          |                                                              |                        |          |
|--------------------------|--------------------------------------------------------------|------------------------|----------|
| <b>Client Sample ID:</b> | MW-7 DUP                                                     | <b>Date Sampled:</b>   | 10/28/22 |
| <b>Lab Sample ID:</b>    | JD54605-8                                                    | <b>Date Received:</b>  | 10/28/22 |
| <b>Matrix:</b>           | AQ - Ground Water                                            | <b>Percent Solids:</b> | n/a      |
| <b>Method:</b>           | SW846 8260D                                                  |                        |          |
| <b>Project:</b>          | Info Tech High School, 21-16 44th Road, Long Island City, NY |                        |          |

|        | File ID   | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|-----------|------------|------------------|
| Run #1 | 1U49726.D | 1  | 11/02/22 06:23 | ED | n/a       | n/a        | V1U2018          |
| Run #2 |           |    |                |    |           |            |                  |

|        | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml       |
| Run #2 |              |

## VOA TCL List (SOM0 1.1)

| CAS No.    | Compound                             | Result | RL   | MDL  | Units | Q |
|------------|--------------------------------------|--------|------|------|-------|---|
| 67-64-1    | Acetone <sup>a</sup>                 | ND     | 10   | 3.1  | ug/l  |   |
| 71-43-2    | Benzene                              | ND     | 0.50 | 0.43 | ug/l  |   |
| 74-97-5    | Bromochloromethane                   | ND     | 1.0  | 0.48 | ug/l  |   |
| 75-27-4    | Bromodichloromethane                 | ND     | 1.0  | 0.45 | ug/l  |   |
| 75-25-2    | Bromoform                            | ND     | 1.0  | 0.63 | ug/l  |   |
| 74-83-9    | Bromomethane                         | ND     | 2.0  | 1.6  | ug/l  |   |
| 78-93-3    | 2-Butanone (MEK)                     | ND     | 10   | 2.7  | ug/l  |   |
| 75-15-0    | Carbon disulfide                     | ND     | 2.0  | 0.46 | ug/l  |   |
| 56-23-5    | Carbon tetrachloride                 | ND     | 1.0  | 0.55 | ug/l  |   |
| 108-90-7   | Chlorobenzene                        | ND     | 1.0  | 0.56 | ug/l  |   |
| 75-00-3    | Chloroethane                         | ND     | 1.0  | 0.73 | ug/l  |   |
| 67-66-3    | Chloroform <sup>b</sup>              | ND     | 1.0  | 0.50 | ug/l  |   |
| 74-87-3    | Chloromethane                        | ND     | 1.0  | 0.76 | ug/l  |   |
| 110-82-7   | Cyclohexane                          | ND     | 5.0  | 0.78 | ug/l  |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane          | ND     | 2.0  | 0.53 | ug/l  |   |
| 124-48-1   | Dibromochloromethane                 | ND     | 1.0  | 0.56 | ug/l  |   |
| 106-93-4   | 1,2-Dibromoethane                    | ND     | 1.0  | 0.48 | ug/l  |   |
| 95-50-1    | 1,2-Dichlorobenzene                  | ND     | 1.0  | 0.53 | ug/l  |   |
| 541-73-1   | 1,3-Dichlorobenzene                  | ND     | 1.0  | 0.54 | ug/l  |   |
| 106-46-7   | 1,4-Dichlorobenzene                  | ND     | 1.0  | 0.51 | ug/l  |   |
| 75-71-8    | Dichlorodifluoromethane <sup>a</sup> | ND     | 2.0  | 0.56 | ug/l  |   |
| 75-34-3    | 1,1-Dichloroethane                   | ND     | 1.0  | 0.57 | ug/l  |   |
| 107-06-2   | 1,2-Dichloroethane                   | ND     | 1.0  | 0.60 | ug/l  |   |
| 75-35-4    | 1,1-Dichloroethene                   | ND     | 1.0  | 0.59 | ug/l  |   |
| 156-59-2   | cis-1,2-Dichloroethene               | 1.0    | 1.0  | 0.51 | ug/l  |   |
| 156-60-5   | trans-1,2-Dichloroethene             | ND     | 1.0  | 0.54 | ug/l  |   |
| 78-87-5    | 1,2-Dichloropropane                  | ND     | 1.0  | 0.51 | ug/l  |   |
| 10061-01-5 | cis-1,3-Dichloropropene              | ND     | 1.0  | 0.47 | ug/l  |   |
| 10061-02-6 | trans-1,3-Dichloropropene            | ND     | 1.0  | 0.43 | ug/l  |   |
| 123-91-1   | 1,4-Dioxane                          | ND     | 130  | 19   | ug/l  |   |
| 100-41-4   | Ethylbenzene                         | ND     | 1.0  | 0.60 | ug/l  |   |
| 76-13-1    | Freon 113                            | ND     | 5.0  | 0.58 | ug/l  |   |

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

## Report of Analysis

|                          |                                                              |                        |          |
|--------------------------|--------------------------------------------------------------|------------------------|----------|
| <b>Client Sample ID:</b> | MW-7 DUP                                                     | <b>Date Sampled:</b>   | 10/28/22 |
| <b>Lab Sample ID:</b>    | JD54605-8                                                    | <b>Date Received:</b>  | 10/28/22 |
| <b>Matrix:</b>           | AQ - Ground Water                                            | <b>Percent Solids:</b> | n/a      |
| <b>Method:</b>           | SW846 8260D                                                  |                        |          |
| <b>Project:</b>          | Info Tech High School, 21-16 44th Road, Long Island City, NY |                        |          |

## VOA TCL List (SOM0 1.1)

| CAS No.   | Compound                   | Result | RL  | MDL  | Units | Q |
|-----------|----------------------------|--------|-----|------|-------|---|
| 591-78-6  | 2-Hexanone                 | ND     | 5.0 | 2.0  | ug/l  |   |
| 98-82-8   | Isopropylbenzene           | ND     | 1.0 | 0.65 | ug/l  |   |
| 79-20-9   | Methyl Acetate             | ND     | 5.0 | 0.80 | ug/l  |   |
| 108-87-2  | Methylcyclohexane          | ND     | 5.0 | 0.60 | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether    | ND     | 1.0 | 0.51 | ug/l  |   |
| 108-10-1  | 4-Methyl-2-pentanone(MIBK) | ND     | 5.0 | 1.9  | ug/l  |   |
| 75-09-2   | Methylene chloride         | ND     | 2.0 | 1.0  | ug/l  |   |
| 100-42-5  | Styrene                    | ND     | 1.0 | 0.49 | ug/l  |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane  | ND     | 1.0 | 0.65 | ug/l  |   |
| 127-18-4  | Tetrachloroethene          | 165    | 1.0 | 0.56 | ug/l  |   |
| 108-88-3  | Toluene                    | ND     | 1.0 | 0.49 | ug/l  |   |
| 87-61-6   | 1,2,3-Trichlorobenzene     | ND     | 1.0 | 0.50 | ug/l  |   |
| 120-82-1  | 1,2,4-Trichlorobenzene     | ND     | 1.0 | 0.50 | ug/l  |   |
| 71-55-6   | 1,1,1-Trichloroethane      | ND     | 1.0 | 0.54 | ug/l  |   |
| 79-00-5   | 1,1,2-Trichloroethane      | ND     | 1.0 | 0.53 | ug/l  |   |
| 79-01-6   | Trichloroethene            | 1.1    | 1.0 | 0.53 | ug/l  |   |
| 75-69-4   | Trichlorofluoromethane     | ND     | 2.0 | 0.40 | ug/l  |   |
| 75-01-4   | Vinyl chloride             | ND     | 1.0 | 0.52 | ug/l  |   |
|           | m,p-Xylene                 | ND     | 1.0 | 0.78 | ug/l  |   |
| 95-47-6   | o-Xylene                   | ND     | 1.0 | 0.59 | ug/l  |   |
| 1330-20-7 | Xylene (total)             | ND     | 1.0 | 0.59 | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 103%   |        | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 107%   |        | 80-120% |
| 2037-26-5  | Toluene-D8            | 104%   |        | 80-120% |
| 460-00-4   | 4-Bromofluorobenzene  | 95%    |        | 82-114% |

(a) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

(b) Associated CCV outside of control limits high, sample was ND.

ND = Not detected      MDL = Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

SGS North America Inc.

## Report of Analysis

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|                          |                                                              |                        |          |
|--------------------------|--------------------------------------------------------------|------------------------|----------|
| <b>Client Sample ID:</b> | BRMW-3                                                       | <b>Date Sampled:</b>   | 10/28/22 |
| <b>Lab Sample ID:</b>    | JD54605-9                                                    | <b>Date Received:</b>  | 10/28/22 |
| <b>Matrix:</b>           | AQ - Ground Water                                            | <b>Percent Solids:</b> | n/a      |
| <b>Method:</b>           | SW846 8260D                                                  |                        |          |
| <b>Project:</b>          | Info Tech High School, 21-16 44th Road, Long Island City, NY |                        |          |

|        | File ID   | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|-----------|------------|------------------|
| Run #1 | 2U49701.D | 1  | 11/02/22 00:20 | ED | n/a       | n/a        | V2U2018          |
| Run #2 | 1U49706.D | 10 | 11/02/22 01:33 | ED | n/a       | n/a        | V1U2018          |

|        | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml       |
| Run #2 | 5.0 ml       |

## VOA TCL List (SOM0 1.1)

| CAS No.    | Compound                             | Result | RL   | MDL  | Units | Q |
|------------|--------------------------------------|--------|------|------|-------|---|
| 67-64-1    | Acetone                              | ND     | 10   | 3.1  | ug/l  |   |
| 71-43-2    | Benzene                              | ND     | 0.50 | 0.43 | ug/l  |   |
| 74-97-5    | Bromochloromethane                   | ND     | 1.0  | 0.48 | ug/l  |   |
| 75-27-4    | Bromodichloromethane                 | ND     | 1.0  | 0.45 | ug/l  |   |
| 75-25-2    | Bromoform                            | ND     | 1.0  | 0.63 | ug/l  |   |
| 74-83-9    | Bromomethane                         | ND     | 2.0  | 1.6  | ug/l  |   |
| 78-93-3    | 2-Butanone (MEK)                     | ND     | 10   | 2.7  | ug/l  |   |
| 75-15-0    | Carbon disulfide                     | ND     | 2.0  | 0.46 | ug/l  |   |
| 56-23-5    | Carbon tetrachloride                 | ND     | 1.0  | 0.55 | ug/l  |   |
| 108-90-7   | Chlorobenzene                        | ND     | 1.0  | 0.56 | ug/l  |   |
| 75-00-3    | Chloroethane                         | ND     | 1.0  | 0.73 | ug/l  |   |
| 67-66-3    | Chloroform                           | ND     | 1.0  | 0.50 | ug/l  |   |
| 74-87-3    | Chloromethane                        | ND     | 1.0  | 0.76 | ug/l  |   |
| 110-82-7   | Cyclohexane                          | ND     | 5.0  | 0.78 | ug/l  |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane          | ND     | 2.0  | 0.53 | ug/l  |   |
| 124-48-1   | Dibromochloromethane                 | ND     | 1.0  | 0.56 | ug/l  |   |
| 106-93-4   | 1,2-Dibromoethane                    | ND     | 1.0  | 0.48 | ug/l  |   |
| 95-50-1    | 1,2-Dichlorobenzene                  | ND     | 1.0  | 0.53 | ug/l  |   |
| 541-73-1   | 1,3-Dichlorobenzene                  | ND     | 1.0  | 0.54 | ug/l  |   |
| 106-46-7   | 1,4-Dichlorobenzene                  | ND     | 1.0  | 0.51 | ug/l  |   |
| 75-71-8    | Dichlorodifluoromethane <sup>a</sup> | ND     | 2.0  | 0.56 | ug/l  |   |
| 75-34-3    | 1,1-Dichloroethane                   | ND     | 1.0  | 0.57 | ug/l  |   |
| 107-06-2   | 1,2-Dichloroethane                   | ND     | 1.0  | 0.60 | ug/l  |   |
| 75-35-4    | 1,1-Dichloroethene                   | ND     | 1.0  | 0.59 | ug/l  |   |
| 156-59-2   | cis-1,2-Dichloroethene               | 12.4   | 1.0  | 0.51 | ug/l  |   |
| 156-60-5   | trans-1,2-Dichloroethene             | 2.3    | 1.0  | 0.54 | ug/l  |   |
| 78-87-5    | 1,2-Dichloropropane                  | ND     | 1.0  | 0.51 | ug/l  |   |
| 10061-01-5 | cis-1,3-Dichloropropene              | ND     | 1.0  | 0.47 | ug/l  |   |
| 10061-02-6 | trans-1,3-Dichloropropene            | ND     | 1.0  | 0.43 | ug/l  |   |
| 123-91-1   | 1,4-Dioxane                          | ND     | 130  | 19   | ug/l  |   |
| 100-41-4   | Ethylbenzene                         | ND     | 1.0  | 0.60 | ug/l  |   |
| 76-13-1    | Freon 113                            | ND     | 5.0  | 0.58 | ug/l  |   |

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

|                          |                                                              |                        |          |
|--------------------------|--------------------------------------------------------------|------------------------|----------|
| <b>Client Sample ID:</b> | BRMW-3                                                       | <b>Date Sampled:</b>   | 10/28/22 |
| <b>Lab Sample ID:</b>    | JD54605-9                                                    | <b>Date Received:</b>  | 10/28/22 |
| <b>Matrix:</b>           | AQ - Ground Water                                            | <b>Percent Solids:</b> | n/a      |
| <b>Method:</b>           | SW846 8260D                                                  |                        |          |
| <b>Project:</b>          | Info Tech High School, 21-16 44th Road, Long Island City, NY |                        |          |

## VOA TCL List (SOM0 1.1)

| CAS No.   | Compound                   | Result           | RL  | MDL  | Units | Q |
|-----------|----------------------------|------------------|-----|------|-------|---|
| 591-78-6  | 2-Hexanone                 | ND               | 5.0 | 2.0  | ug/l  |   |
| 98-82-8   | Isopropylbenzene           | ND               | 1.0 | 0.65 | ug/l  |   |
| 79-20-9   | Methyl Acetate             | ND               | 5.0 | 0.80 | ug/l  |   |
| 108-87-2  | Methylcyclohexane          | ND               | 5.0 | 0.60 | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether    | ND               | 1.0 | 0.51 | ug/l  |   |
| 108-10-1  | 4-Methyl-2-pentanone(MIBK) | ND               | 5.0 | 1.9  | ug/l  |   |
| 75-09-2   | Methylene chloride         | ND               | 2.0 | 1.0  | ug/l  |   |
| 100-42-5  | Styrene                    | ND               | 1.0 | 0.49 | ug/l  |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane  | ND               | 1.0 | 0.65 | ug/l  |   |
| 127-18-4  | Tetrachloroethene          | 353 <sup>b</sup> | 10  | 5.6  | ug/l  |   |
| 108-88-3  | Toluene                    | ND               | 1.0 | 0.49 | ug/l  |   |
| 87-61-6   | 1,2,3-Trichlorobenzene     | ND               | 1.0 | 0.50 | ug/l  |   |
| 120-82-1  | 1,2,4-Trichlorobenzene     | ND               | 1.0 | 0.50 | ug/l  |   |
| 71-55-6   | 1,1,1-Trichloroethane      | ND               | 1.0 | 0.54 | ug/l  |   |
| 79-00-5   | 1,1,2-Trichloroethane      | ND               | 1.0 | 0.53 | ug/l  |   |
| 79-01-6   | Trichloroethene            | 61.2             | 1.0 | 0.53 | ug/l  |   |
| 75-69-4   | Trichlorofluoromethane     | ND               | 2.0 | 0.40 | ug/l  |   |
| 75-01-4   | Vinyl chloride             | ND               | 1.0 | 0.52 | ug/l  |   |
|           | m,p-Xylene                 | ND               | 1.0 | 0.78 | ug/l  |   |
| 95-47-6   | o-Xylene                   | ND               | 1.0 | 0.59 | ug/l  |   |
| 1330-20-7 | Xylene (total)             | ND               | 1.0 | 0.59 | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 101%   | 101%   | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 110%   | 105%   | 80-120% |
| 2037-26-5  | Toluene-D8            | 106%   | 103%   | 80-120% |
| 460-00-4   | 4-Bromofluorobenzene  | 97%    | 100%   | 82-114% |

(a) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

(b) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

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## Report of Analysis

Page 1 of 2

|                          |                                                              |                        |          |
|--------------------------|--------------------------------------------------------------|------------------------|----------|
| <b>Client Sample ID:</b> | FIELD BLANK                                                  | <b>Date Sampled:</b>   | 10/28/22 |
| <b>Lab Sample ID:</b>    | JD54605-10                                                   | <b>Date Received:</b>  | 10/28/22 |
| <b>Matrix:</b>           | AQ - Field Blank Water                                       | <b>Percent Solids:</b> | n/a      |
| <b>Method:</b>           | SW846 8260D                                                  |                        |          |
| <b>Project:</b>          | Info Tech High School, 21-16 44th Road, Long Island City, NY |                        |          |

|        | File ID   | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|-----------|------------|------------------|
| Run #1 | 2U49697.D | 1  | 11/01/22 23:22 | ED | n/a       | n/a        | V2U2018          |
| Run #2 |           |    |                |    |           |            |                  |

|        | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml       |
| Run #2 |              |

## VOA TCL List (SOM0 1.1)

| CAS No.    | Compound                             | Result | RL   | MDL  | Units | Q |
|------------|--------------------------------------|--------|------|------|-------|---|
| 67-64-1    | Acetone                              | ND     | 10   | 3.1  | ug/l  |   |
| 71-43-2    | Benzene                              | ND     | 0.50 | 0.43 | ug/l  |   |
| 74-97-5    | Bromochloromethane                   | ND     | 1.0  | 0.48 | ug/l  |   |
| 75-27-4    | Bromodichloromethane                 | ND     | 1.0  | 0.45 | ug/l  |   |
| 75-25-2    | Bromoform                            | ND     | 1.0  | 0.63 | ug/l  |   |
| 74-83-9    | Bromomethane                         | ND     | 2.0  | 1.6  | ug/l  |   |
| 78-93-3    | 2-Butanone (MEK)                     | ND     | 10   | 2.7  | ug/l  |   |
| 75-15-0    | Carbon disulfide                     | ND     | 2.0  | 0.46 | ug/l  |   |
| 56-23-5    | Carbon tetrachloride                 | ND     | 1.0  | 0.55 | ug/l  |   |
| 108-90-7   | Chlorobenzene                        | ND     | 1.0  | 0.56 | ug/l  |   |
| 75-00-3    | Chloroethane                         | ND     | 1.0  | 0.73 | ug/l  |   |
| 67-66-3    | Chloroform                           | 8.5    | 1.0  | 0.50 | ug/l  |   |
| 74-87-3    | Chloromethane                        | ND     | 1.0  | 0.76 | ug/l  |   |
| 110-82-7   | Cyclohexane                          | ND     | 5.0  | 0.78 | ug/l  |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane          | ND     | 2.0  | 0.53 | ug/l  |   |
| 124-48-1   | Dibromochloromethane                 | ND     | 1.0  | 0.56 | ug/l  |   |
| 106-93-4   | 1,2-Dibromoethane                    | ND     | 1.0  | 0.48 | ug/l  |   |
| 95-50-1    | 1,2-Dichlorobenzene                  | ND     | 1.0  | 0.53 | ug/l  |   |
| 541-73-1   | 1,3-Dichlorobenzene                  | ND     | 1.0  | 0.54 | ug/l  |   |
| 106-46-7   | 1,4-Dichlorobenzene                  | ND     | 1.0  | 0.51 | ug/l  |   |
| 75-71-8    | Dichlorodifluoromethane <sup>a</sup> | ND     | 2.0  | 0.56 | ug/l  |   |
| 75-34-3    | 1,1-Dichloroethane                   | ND     | 1.0  | 0.57 | ug/l  |   |
| 107-06-2   | 1,2-Dichloroethane                   | ND     | 1.0  | 0.60 | ug/l  |   |
| 75-35-4    | 1,1-Dichloroethene                   | ND     | 1.0  | 0.59 | ug/l  |   |
| 156-59-2   | cis-1,2-Dichloroethene               | ND     | 1.0  | 0.51 | ug/l  |   |
| 156-60-5   | trans-1,2-Dichloroethene             | ND     | 1.0  | 0.54 | ug/l  |   |
| 78-87-5    | 1,2-Dichloropropane                  | ND     | 1.0  | 0.51 | ug/l  |   |
| 10061-01-5 | cis-1,3-Dichloropropene              | ND     | 1.0  | 0.47 | ug/l  |   |
| 10061-02-6 | trans-1,3-Dichloropropene            | ND     | 1.0  | 0.43 | ug/l  |   |
| 123-91-1   | 1,4-Dioxane                          | ND     | 130  | 19   | ug/l  |   |
| 100-41-4   | Ethylbenzene                         | ND     | 1.0  | 0.60 | ug/l  |   |
| 76-13-1    | Freon 113                            | ND     | 5.0  | 0.58 | ug/l  |   |

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

## Report of Analysis

|                          |                                                              |                        |          |
|--------------------------|--------------------------------------------------------------|------------------------|----------|
| <b>Client Sample ID:</b> | FIELD BLANK                                                  | <b>Date Sampled:</b>   | 10/28/22 |
| <b>Lab Sample ID:</b>    | JD54605-10                                                   | <b>Date Received:</b>  | 10/28/22 |
| <b>Matrix:</b>           | AQ - Field Blank Water                                       | <b>Percent Solids:</b> | n/a      |
| <b>Method:</b>           | SW846 8260D                                                  |                        |          |
| <b>Project:</b>          | Info Tech High School, 21-16 44th Road, Long Island City, NY |                        |          |

## VOA TCL List (SOM0 1.1)

| CAS No.   | Compound                   | Result | RL  | MDL  | Units | Q |
|-----------|----------------------------|--------|-----|------|-------|---|
| 591-78-6  | 2-Hexanone                 | ND     | 5.0 | 2.0  | ug/l  |   |
| 98-82-8   | Isopropylbenzene           | ND     | 1.0 | 0.65 | ug/l  |   |
| 79-20-9   | Methyl Acetate             | ND     | 5.0 | 0.80 | ug/l  |   |
| 108-87-2  | Methylcyclohexane          | ND     | 5.0 | 0.60 | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether    | ND     | 1.0 | 0.51 | ug/l  |   |
| 108-10-1  | 4-Methyl-2-pentanone(MIBK) | ND     | 5.0 | 1.9  | ug/l  |   |
| 75-09-2   | Methylene chloride         | ND     | 2.0 | 1.0  | ug/l  |   |
| 100-42-5  | Styrene                    | ND     | 1.0 | 0.49 | ug/l  |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane  | ND     | 1.0 | 0.65 | ug/l  |   |
| 127-18-4  | Tetrachloroethene          | ND     | 1.0 | 0.56 | ug/l  |   |
| 108-88-3  | Toluene                    | ND     | 1.0 | 0.49 | ug/l  |   |
| 87-61-6   | 1,2,3-Trichlorobenzene     | ND     | 1.0 | 0.50 | ug/l  |   |
| 120-82-1  | 1,2,4-Trichlorobenzene     | ND     | 1.0 | 0.50 | ug/l  |   |
| 71-55-6   | 1,1,1-Trichloroethane      | ND     | 1.0 | 0.54 | ug/l  |   |
| 79-00-5   | 1,1,2-Trichloroethane      | ND     | 1.0 | 0.53 | ug/l  |   |
| 79-01-6   | Trichloroethene            | ND     | 1.0 | 0.53 | ug/l  |   |
| 75-69-4   | Trichlorofluoromethane     | ND     | 2.0 | 0.40 | ug/l  |   |
| 75-01-4   | Vinyl chloride             | ND     | 1.0 | 0.52 | ug/l  |   |
|           | m,p-Xylene                 | ND     | 1.0 | 0.78 | ug/l  |   |
| 95-47-6   | o-Xylene                   | ND     | 1.0 | 0.59 | ug/l  |   |
| 1330-20-7 | Xylene (total)             | ND     | 1.0 | 0.59 | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 101%   |        | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 108%   |        | 80-120% |
| 2037-26-5  | Toluene-D8            | 103%   |        | 80-120% |
| 460-00-4   | 4-Bromofluorobenzene  | 98%    |        | 82-114% |

(a) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

ND = Not detected      MDL = Method Detection Limit  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound



SGS North America Inc.

## Report of Analysis

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|                          |                                                              |                                |
|--------------------------|--------------------------------------------------------------|--------------------------------|
| <b>Client Sample ID:</b> | TRIP BLANK                                                   |                                |
| <b>Lab Sample ID:</b>    | JD54605-11                                                   | <b>Date Sampled:</b> 10/28/22  |
| <b>Matrix:</b>           | AQ - Trip Blank Water                                        | <b>Date Received:</b> 10/28/22 |
| <b>Method:</b>           | SW846 8260D                                                  | <b>Percent Solids:</b> n/a     |
| <b>Project:</b>          | Info Tech High School, 21-16 44th Road, Long Island City, NY |                                |

|        | File ID   | DF | Analyzed       | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------------|----|-----------|------------|------------------|
| Run #1 | 1K01237.D | 1  | 11/02/22 12:41 | TS | n/a       | n/a        | V1K38            |
| Run #2 |           |    |                |    |           |            |                  |

|        | Purge Volume |
|--------|--------------|
| Run #1 | 5.0 ml       |
| Run #2 |              |

## VOA TCL List (SOM0 1.1)

| CAS No.    | Compound                    | Result | RL   | MDL  | Units | Q |
|------------|-----------------------------|--------|------|------|-------|---|
| 67-64-1    | Acetone <sup>a</sup>        | ND     | 10   | 3.1  | ug/l  |   |
| 71-43-2    | Benzene                     | ND     | 0.50 | 0.43 | ug/l  |   |
| 74-97-5    | Bromochloromethane          | ND     | 1.0  | 0.48 | ug/l  |   |
| 75-27-4    | Bromodichloromethane        | ND     | 1.0  | 0.45 | ug/l  |   |
| 75-25-2    | Bromoform                   | ND     | 1.0  | 0.63 | ug/l  |   |
| 74-83-9    | Bromomethane <sup>b</sup>   | ND     | 2.0  | 1.6  | ug/l  |   |
| 78-93-3    | 2-Butanone (MEK)            | ND     | 10   | 2.7  | ug/l  |   |
| 75-15-0    | Carbon disulfide            | ND     | 2.0  | 0.46 | ug/l  |   |
| 56-23-5    | Carbon tetrachloride        | ND     | 1.0  | 0.55 | ug/l  |   |
| 108-90-7   | Chlorobenzene               | ND     | 1.0  | 0.56 | ug/l  |   |
| 75-00-3    | Chloroethane                | ND     | 1.0  | 0.73 | ug/l  |   |
| 67-66-3    | Chloroform                  | 8.3    | 1.0  | 0.50 | ug/l  |   |
| 74-87-3    | Chloromethane               | ND     | 1.0  | 0.76 | ug/l  |   |
| 110-82-7   | Cyclohexane                 | ND     | 5.0  | 0.78 | ug/l  |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | ND     | 2.0  | 0.53 | ug/l  |   |
| 124-48-1   | Dibromochloromethane        | ND     | 1.0  | 0.56 | ug/l  |   |
| 106-93-4   | 1,2-Dibromoethane           | ND     | 1.0  | 0.48 | ug/l  |   |
| 95-50-1    | 1,2-Dichlorobenzene         | ND     | 1.0  | 0.53 | ug/l  |   |
| 541-73-1   | 1,3-Dichlorobenzene         | ND     | 1.0  | 0.54 | ug/l  |   |
| 106-46-7   | 1,4-Dichlorobenzene         | ND     | 1.0  | 0.51 | ug/l  |   |
| 75-71-8    | Dichlorodifluoromethane     | ND     | 2.0  | 0.56 | ug/l  |   |
| 75-34-3    | 1,1-Dichloroethane          | ND     | 1.0  | 0.57 | ug/l  |   |
| 107-06-2   | 1,2-Dichloroethane          | ND     | 1.0  | 0.60 | ug/l  |   |
| 75-35-4    | 1,1-Dichloroethene          | ND     | 1.0  | 0.59 | ug/l  |   |
| 156-59-2   | cis-1,2-Dichloroethene      | ND     | 1.0  | 0.51 | ug/l  |   |
| 156-60-5   | trans-1,2-Dichloroethene    | ND     | 1.0  | 0.54 | ug/l  |   |
| 78-87-5    | 1,2-Dichloropropane         | ND     | 1.0  | 0.51 | ug/l  |   |
| 10061-01-5 | cis-1,3-Dichloropropene     | ND     | 1.0  | 0.47 | ug/l  |   |
| 10061-02-6 | trans-1,3-Dichloropropene   | ND     | 1.0  | 0.43 | ug/l  |   |
| 123-91-1   | 1,4-Dioxane                 | ND     | 130  | 19   | ug/l  |   |
| 100-41-4   | Ethylbenzene                | ND     | 1.0  | 0.60 | ug/l  |   |
| 76-13-1    | Freon 113                   | ND     | 5.0  | 0.58 | ug/l  |   |

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

## Report of Analysis

|                          |                                                              |                        |          |
|--------------------------|--------------------------------------------------------------|------------------------|----------|
| <b>Client Sample ID:</b> | TRIP BLANK                                                   | <b>Date Sampled:</b>   | 10/28/22 |
| <b>Lab Sample ID:</b>    | JD54605-11                                                   | <b>Date Received:</b>  | 10/28/22 |
| <b>Matrix:</b>           | AQ - Trip Blank Water                                        | <b>Percent Solids:</b> | n/a      |
| <b>Method:</b>           | SW846 8260D                                                  |                        |          |
| <b>Project:</b>          | Info Tech High School, 21-16 44th Road, Long Island City, NY |                        |          |

## VOA TCL List (SOM0 1.1)

| CAS No.   | Compound                       | Result | RL  | MDL  | Units | Q |
|-----------|--------------------------------|--------|-----|------|-------|---|
| 591-78-6  | 2-Hexanone                     | ND     | 5.0 | 2.0  | ug/l  |   |
| 98-82-8   | Isopropylbenzene               | ND     | 1.0 | 0.65 | ug/l  |   |
| 79-20-9   | Methyl Acetate <sup>a</sup>    | ND     | 5.0 | 0.80 | ug/l  |   |
| 108-87-2  | Methylcyclohexane <sup>a</sup> | ND     | 5.0 | 0.60 | ug/l  |   |
| 1634-04-4 | Methyl Tert Butyl Ether        | ND     | 1.0 | 0.51 | ug/l  |   |
| 108-10-1  | 4-Methyl-2-pentanone(MIBK)     | ND     | 5.0 | 1.9  | ug/l  |   |
| 75-09-2   | Methylene chloride             | ND     | 2.0 | 1.0  | ug/l  |   |
| 100-42-5  | Styrene                        | ND     | 1.0 | 0.49 | ug/l  |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane      | ND     | 1.0 | 0.65 | ug/l  |   |
| 127-18-4  | Tetrachloroethene              | ND     | 1.0 | 0.56 | ug/l  |   |
| 108-88-3  | Toluene                        | ND     | 1.0 | 0.49 | ug/l  |   |
| 87-61-6   | 1,2,3-Trichlorobenzene         | ND     | 1.0 | 0.50 | ug/l  |   |
| 120-82-1  | 1,2,4-Trichlorobenzene         | ND     | 1.0 | 0.50 | ug/l  |   |
| 71-55-6   | 1,1,1-Trichloroethane          | ND     | 1.0 | 0.54 | ug/l  |   |
| 79-00-5   | 1,1,2-Trichloroethane          | ND     | 1.0 | 0.53 | ug/l  |   |
| 79-01-6   | Trichloroethene <sup>a</sup>   | ND     | 1.0 | 0.53 | ug/l  |   |
| 75-69-4   | Trichlorofluoromethane         | ND     | 2.0 | 0.40 | ug/l  |   |
| 75-01-4   | Vinyl chloride                 | ND     | 1.0 | 0.52 | ug/l  |   |
|           | m,p-Xylene                     | ND     | 1.0 | 0.78 | ug/l  |   |
| 95-47-6   | o-Xylene                       | ND     | 1.0 | 0.59 | ug/l  |   |
| 1330-20-7 | Xylene (total)                 | ND     | 1.0 | 0.59 | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2 | Limits  |
|------------|-----------------------|--------|--------|---------|
| 1868-53-7  | Dibromofluoromethane  | 101%   |        | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 102%   |        | 80-120% |
| 2037-26-5  | Toluene-D8            | 105%   |        | 80-120% |
| 460-00-4   | 4-Bromofluorobenzene  | 113%   |        | 82-114% |

(a) Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

(b) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Misc. Forms

5

### Custody Documents and Other Forms

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Includes the following where applicable:

- Chain of Custody
- Sample Tracking Chronicle
- Internal Chain of Custody



## CHAIN OF CUSTODY

SGS North America Inc. - Dayton  
2235 Route 130, Dayton, NJ 08810  
TEL: 732-329-0200 FAX: 732-329-3499/3480  
www.sgs.com/ehsusa

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EHS-A-CAC-0023-04-FORM-Standard COC

| Client / Reporting Information                                                                                                                                                                                                                                        |                                               | Project Information                       |                                  | Requested Analysis                                                                                                                                                                                                                                                                       |       | Matrix Codes                                                                                                                                                                                                                                                                                                    |                                        |        |           |        |              |     |      |      |       |     |          |     |        |              |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|-------------------------------------------|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|--------|-----------|--------|--------------|-----|------|------|-------|-----|----------|-----|--------|--------------|--|
| Company Name:<br><b>Fleming Lee Shwe D.P.C.</b>                                                                                                                                                                                                                       | Project Name:<br><b>Info Tech High School</b> | Street Address:<br><b>21-10 44th Road</b> |                                  | Billing Information (if different from Report to):<br>Company Name:<br>Street Address:<br>City:<br>State:<br>Zip:                                                                                                                                                                        |       | Matrix Codes:<br>DW - Drinking Water<br>GW - Ground Water<br>WW - Water<br>SW - Surface Water<br>SO - Soil<br>SL - Sludge<br>SED - Sediment<br>OI - Oil<br>LIQ - Other Liquid<br>AIR - Air<br>SOL - Other Solid<br>WP - Wipe<br>FB - Field Blank<br>EB - Equipment Blank<br>RB - Rinse Blank<br>TB - Trip Blank |                                        |        |           |        |              |     |      |      |       |     |          |     |        |              |  |
| Street Address:<br><b>158 W 29th Street</b>                                                                                                                                                                                                                           | City:<br><b>New York</b>                      | State:<br><b>NY</b>                       | Zip:<br><b>10001</b>             | Project #:<br><b>212-675-3225</b>                                                                                                                                                                                                                                                        |       | Client Purchase Order #:                                                                                                                                                                                                                                                                                        |                                        |        |           |        |              |     |      |      |       |     |          |     |        |              |  |
| Project Contact:<br><b>J Kame jkame@fleminglee.com</b>                                                                                                                                                                                                                | E-mail:<br><b>J Kame jkame@fleminglee.com</b> | Project Manager:<br><b>T. McCloskey</b>   |                                  | Attention:                                                                                                                                                                                                                                                                               |       |                                                                                                                                                                                                                                                                                                                 |                                        |        |           |        |              |     |      |      |       |     |          |     |        |              |  |
| Phone #:<br><b>212-675-3225</b>                                                                                                                                                                                                                                       | Phone #:                                      | Collection                                |                                  | Number of preserved bottles                                                                                                                                                                                                                                                              |       | pH Check (Lab Use Only)                                                                                                                                                                                                                                                                                         |                                        |        |           |        |              |     |      |      |       |     |          |     |        |              |  |
| Sampler(s) Name(s):<br><b>J Kame &amp; B. Hess</b>                                                                                                                                                                                                                    | Phone #:                                      | Field ID / Point of Collection            | MEQ/HDl Val #                    | Date                                                                                                                                                                                                                                                                                     | Time  | Sampled by                                                                                                                                                                                                                                                                                                      | Grav (G)                               | Source | Container | Matrix | # of bottles | HCl | HNO3 | H2O2 | H2SO4 | H2S | DI Water | MEQ | ENCORE | LAB USE ONLY |  |
| 1                                                                                                                                                                                                                                                                     |                                               | MW-7                                      |                                  | 10/26/22                                                                                                                                                                                                                                                                                 | 10:05 | JA                                                                                                                                                                                                                                                                                                              | G                                      | N      | GW        | 3      | 3            |     |      |      |       |     |          |     |        |              |  |
| 2                                                                                                                                                                                                                                                                     |                                               | B2MW-1                                    |                                  |                                                                                                                                                                                                                                                                                          | 10:10 | JA                                                                                                                                                                                                                                                                                                              | G                                      | N      | GW        | 3      | 3            |     |      |      |       |     |          |     |        |              |  |
| 3                                                                                                                                                                                                                                                                     |                                               | MW-8                                      |                                  |                                                                                                                                                                                                                                                                                          | 11:10 | JA                                                                                                                                                                                                                                                                                                              | G                                      | N      | GW        | 3      | 3            |     |      |      |       |     |          |     |        |              |  |
| 4                                                                                                                                                                                                                                                                     |                                               | B2MW-2                                    |                                  |                                                                                                                                                                                                                                                                                          | 11:20 | JA                                                                                                                                                                                                                                                                                                              | G                                      | N      | GW        | 3      | 3            |     |      |      |       |     |          |     |        |              |  |
| 5                                                                                                                                                                                                                                                                     |                                               | MW-6                                      |                                  |                                                                                                                                                                                                                                                                                          | 12:00 | JA                                                                                                                                                                                                                                                                                                              | G                                      | N      | GW        | 3      | 3            |     |      |      |       |     |          |     |        |              |  |
| 6                                                                                                                                                                                                                                                                     |                                               | BW-1                                      |                                  |                                                                                                                                                                                                                                                                                          | 12:05 | JA                                                                                                                                                                                                                                                                                                              | G                                      | N      | GW        | 3      | 3            |     |      |      |       |     |          |     |        |              |  |
| 7                                                                                                                                                                                                                                                                     |                                               | MW-7                                      |                                  |                                                                                                                                                                                                                                                                                          | 12:40 | JA                                                                                                                                                                                                                                                                                                              | G                                      | N      | GW        | 3      | 3            |     |      |      |       |     |          |     |        |              |  |
| 8                                                                                                                                                                                                                                                                     |                                               | MW-7 Dup                                  |                                  |                                                                                                                                                                                                                                                                                          | 12:40 | JA                                                                                                                                                                                                                                                                                                              | G                                      | N      | GW        | 3      | 3            |     |      |      |       |     |          |     |        |              |  |
| 9                                                                                                                                                                                                                                                                     |                                               | B2MW-3                                    |                                  |                                                                                                                                                                                                                                                                                          | 13:10 | JA                                                                                                                                                                                                                                                                                                              | G                                      | N      | GW        | 3      | 3            |     |      |      |       |     |          |     |        |              |  |
| 10                                                                                                                                                                                                                                                                    |                                               | Field Blank                               |                                  |                                                                                                                                                                                                                                                                                          | 12:30 | JA                                                                                                                                                                                                                                                                                                              | -                                      | -      | FB        | 2      | 2            |     |      |      |       |     |          |     |        |              |  |
| 11                                                                                                                                                                                                                                                                    |                                               | Trip Blank                                |                                  | 10/26/22                                                                                                                                                                                                                                                                                 | 8:00  | -                                                                                                                                                                                                                                                                                                               | -                                      | -      | TB        | 2      | 2            |     |      |      |       |     |          |     |        |              |  |
| Turn Around Time (Business Days)                                                                                                                                                                                                                                      |                                               | Approved By (SGS PM): / Date:             |                                  | Deliverable                                                                                                                                                                                                                                                                              |       | Comments / Special Instructions                                                                                                                                                                                                                                                                                 |                                        |        |           |        |              |     |      |      |       |     |          |     |        |              |  |
| <input checked="" type="checkbox"/> 10 Business Days<br><input type="checkbox"/> 5 Business Days<br><input type="checkbox"/> 3 Business Days<br><input type="checkbox"/> 2 Business Days<br><input type="checkbox"/> 1 Business Day<br><input type="checkbox"/> Other |                                               | Approval needed for 1-3 Business Day TAT  |                                  | <input type="checkbox"/> Commercial "A" (Level 1)<br><input type="checkbox"/> Commercial "B" (Level 2)<br><input type="checkbox"/> NJ Reduced (Level 3)<br><input type="checkbox"/> Full Tier 1 (Level 4)<br><input type="checkbox"/> Commercial "C"<br><input type="checkbox"/> NJ DKQP |       | <input type="checkbox"/> NYASP Category A<br><input checked="" type="checkbox"/> NYASP Category B<br><input type="checkbox"/> MA MCP Criteria<br><input type="checkbox"/> CT RCP Criteria<br><input type="checkbox"/> State Forms<br><input type="checkbox"/> EDD Format<br><input type="checkbox"/> DOD-QSMS   |                                        |        |           |        |              |     |      |      |       |     |          |     |        |              |  |
| All data available via Lablink                                                                                                                                                                                                                                        |                                               | Approval needed for 1-3 Business Day TAT  |                                  | Commercial "A" = Results only, Commercial "B" = Results + QC Summary<br>Commercial "C" = Results + QC Summary + Partial Raw data                                                                                                                                                         |       | http://www.sgs.com/en/terms-and-conditions                                                                                                                                                                                                                                                                      |                                        |        |           |        |              |     |      |      |       |     |          |     |        |              |  |
| Relinquished By:<br><b>1 B. Hess</b>                                                                                                                                                                                                                                  |                                               | Date / Time:<br><b>10/26/22 13:30</b>     | Received By:<br><b>1 B. Hess</b> | Relinquished By:<br><b>2 B. Hess</b>                                                                                                                                                                                                                                                     |       | Date / Time:<br><b>10/26/22 19:20</b>                                                                                                                                                                                                                                                                           | Received By:<br><b>2 B. Hess</b>       |        |           |        |              |     |      |      |       |     |          |     |        |              |  |
| Relinquished By:<br><b>3</b>                                                                                                                                                                                                                                          |                                               | Date / Time:                              | Received By:<br><b>3</b>         | Relinquished By:<br><b>4</b>                                                                                                                                                                                                                                                             |       | Date / Time:                                                                                                                                                                                                                                                                                                    | Received By:<br><b>4</b>               |        |           |        |              |     |      |      |       |     |          |     |        |              |  |
| Relinquished By:<br><b>5</b>                                                                                                                                                                                                                                          |                                               | Date / Time:                              | Received By:<br><b>5</b>         | Custody Seal #                                                                                                                                                                                                                                                                           |       | <input type="checkbox"/> Intact<br><input type="checkbox"/> Not intact<br><input type="checkbox"/> Absent                                                                                                                                                                                                       | Therm ID:<br>See Sample Record Summary |        |           |        |              |     |      |      |       |     |          |     |        |              |  |

JD54605: Chain of Custody

Page 1 of 2



## SGS Sample Receipt Summary

**Job Number:** JD54605

**Client:** FLEMING-LEE SHUE, INC.

**Project:** INFO TECH HIGH SCHOOL, 21-16 44TH

**Date / Time Received:** 10/29/2022 7:20:00 PM

**Delivery Method:**
**Airbill #s:**
**Cooler Temps (Raw Measured) °C:** Cooler 1: (2.7);

**Cooler Temps (Corrected) °C:** Cooler 1: (2.7);

**Cooler Security**
**Y or N**
**Y or N**

- |                                                                                        |                                                                                    |
|----------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| 1. Custody Seals Present: <input checked="" type="checkbox"/> <input type="checkbox"/> | 3. COC Present: <input checked="" type="checkbox"/> <input type="checkbox"/>       |
| 2. Custody Seals Intact: <input checked="" type="checkbox"/> <input type="checkbox"/>  | 4. Smpl Dates/Time OK <input checked="" type="checkbox"/> <input type="checkbox"/> |

**Cooler Temperature**
**Y or N**

- |                                                                                         |           |
|-----------------------------------------------------------------------------------------|-----------|
| 1. Temp criteria achieved: <input checked="" type="checkbox"/> <input type="checkbox"/> |           |
| 2. Cooler temp verification: _____                                                      |           |
| 3. Cooler media: _____                                                                  | Ice (Bag) |
| 4. No. Coolers: _____                                                                   | 1         |

**Quality Control Preservation**
**Y or N**
**N/A**

- |                                                                                                                       |  |
|-----------------------------------------------------------------------------------------------------------------------|--|
| 1. Trip Blank present / cooler: <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |  |
| 2. Trip Blank listed on COC: <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>    |  |
| 3. Samples preserved properly: <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>  |  |
| 4. VOCs headspace free: <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>         |  |

**Sample Integrity - Documentation**
**Y or N**

- |                                                                                                     |  |
|-----------------------------------------------------------------------------------------------------|--|
| 1. Sample labels present on bottles: <input checked="" type="checkbox"/> <input type="checkbox"/>   |  |
| 2. Container labeling complete: <input checked="" type="checkbox"/> <input type="checkbox"/>        |  |
| 3. Sample container label / COC agree: <input checked="" type="checkbox"/> <input type="checkbox"/> |  |

**Sample Integrity - Condition**
**Y or N**

- |                                                                                               |        |
|-----------------------------------------------------------------------------------------------|--------|
| 1. Sample recvd within HT: <input checked="" type="checkbox"/> <input type="checkbox"/>       |        |
| 2. All containers accounted for: <input checked="" type="checkbox"/> <input type="checkbox"/> |        |
| 3. Condition of sample: _____                                                                 | Intact |

**Sample Integrity - Instructions**
**Y or N**
**N/A**

- |                                                                                                         |                                     |
|---------------------------------------------------------------------------------------------------------|-------------------------------------|
| 1. Analysis requested is clear: <input checked="" type="checkbox"/> <input type="checkbox"/>            |                                     |
| 2. Bottles received for unspecified tests: <input type="checkbox"/> <input checked="" type="checkbox"/> |                                     |
| 3. Sufficient volume recvd for analysis: <input checked="" type="checkbox"/> <input type="checkbox"/>   |                                     |
| 4. Compositing instructions clear: <input type="checkbox"/> <input type="checkbox"/>                    | <input checked="" type="checkbox"/> |
| 5. Filtering instructions clear: <input type="checkbox"/> <input type="checkbox"/>                      | <input checked="" type="checkbox"/> |

|                    |                 |                 |                        |
|--------------------|-----------------|-----------------|------------------------|
| Test Strip Lot #s: | pH 1-12: 231619 | pH 12+: 203117A | Other: (Specify) _____ |
|--------------------|-----------------|-----------------|------------------------|

Comments

 SM089-03  
Rev. Date 12/7/17

JD54605: Chain of Custody

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Internal Sample Tracking Chronicle

Fleming-Lee Shue, Inc.

Job No: JD54605

Info Tech High School, 21-16 44th Road, Long Island City, NY

| Sample Number         | Method                     | Analyzed        | By                  | Prepped | By | Test Codes |
|-----------------------|----------------------------|-----------------|---------------------|---------|----|------------|
| JD54605-1<br>MW-9     | Collected: 28-OCT-22 10:05 | By: JA          | Received: 28-OCT-22 | By: JR  |    |            |
| JD54605-1             | SW846 8260D                | 02-NOV-22 05:11 | ED                  |         |    | V8260TCL11 |
| JD54605-2<br>BRMW-1   | Collected: 28-OCT-22 10:10 | By: BH          | Received: 28-OCT-22 | By: JR  |    |            |
| JD54605-2             | SW846 8260D                | 02-NOV-22 05:25 | ED                  |         |    | V8260TCL11 |
| JD54605-3<br>MW-8     | Collected: 28-OCT-22 11:10 | By: JA          | Received: 28-OCT-22 | By: JR  |    |            |
| JD54605-3             | SW846 8260D                | 02-NOV-22 05:40 | ED                  |         |    | V8260TCL11 |
| JD54605-4<br>BRMW-2   | Collected: 28-OCT-22 11:20 | By: BH          | Received: 28-OCT-22 | By: JR  |    |            |
| JD54605-4             | SW846 8260D                | 01-NOV-22 23:51 | ED                  |         |    | V8260TCL11 |
| JD54605-4             | SW846 8260D                | 02-NOV-22 13:13 | TS                  |         |    | V8260TCL11 |
| JD54605-5<br>MW-6     | Collected: 28-OCT-22 12:00 | By: BH          | Received: 28-OCT-22 | By: JR  |    |            |
| JD54605-5             | SW846 8260D                | 02-NOV-22 00:05 | ED                  |         |    | V8260TCL11 |
| JD54605-6<br>RW-1     | Collected: 28-OCT-22 12:05 | By: JA          | Received: 28-OCT-22 | By: JR  |    |            |
| JD54605-6             | SW846 8260D                | 02-NOV-22 05:54 | ED                  |         |    | V8260TCL11 |
| JD54605-7<br>MW-7     | Collected: 28-OCT-22 12:40 | By: BH          | Received: 28-OCT-22 | By: JR  |    |            |
| JD54605-7             | SW846 8260D                | 02-NOV-22 06:09 | ED                  |         |    | V8260TCL11 |
| JD54605-8<br>MW-7 DUP | Collected: 28-OCT-22 12:40 | By: BH          | Received: 28-OCT-22 | By: JR  |    |            |
| JD54605-8             | SW846 8260D                | 02-NOV-22 06:23 | ED                  |         |    | V8260TCL11 |

Internal Sample Tracking Chronicle

Fleming-Lee Shue, Inc.

Info Tech High School, 21-16 44th Road, Long Island City, NY

Job No: JD54605

| Sample Number                                                                          | Method      | Analyzed        | By | Prepped | By | Test Codes |
|----------------------------------------------------------------------------------------|-------------|-----------------|----|---------|----|------------|
| JD54605-9 Collected: 28-OCT-22 13:10 By: JA Received: 28-OCT-22 By: JR<br>BRMW-3       |             |                 |    |         |    |            |
| JD54605-9                                                                              | SW846 8260D | 02-NOV-22 00:20 | ED |         |    | V8260TCL11 |
| JD54605-9                                                                              | SW846 8260D | 02-NOV-22 01:33 | ED |         |    | V8260TCL11 |
| JD54605-10 Collected: 28-OCT-22 12:30 By: JA Received: 28-OCT-22 By: JR<br>FIELD BLANK |             |                 |    |         |    |            |
| JD54605-10                                                                             | SW846 8260D | 01-NOV-22 23:22 | ED |         |    | V8260TCL11 |
| JD54605-11 Collected: 28-OCT-22 12:30 By: Received: 28-OCT-22 By: JR<br>TRIP BLANK     |             |                 |    |         |    |            |
| JD54605-11                                                                             | SW846 8260D | 02-NOV-22 12:41 | TS |         |    | V8260TCL11 |

# SGS Internal Chain of Custody

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**Job Number:** JD54605  
**Account:** FLSNYYNY Fleming-Lee Shue, Inc.  
**Project:** Info Tech High School, 21-16 44th Road, Long Island City, NY  
**Received:** 10/28/22

| Sample.Bottle Number | Transfer FROM   | Transfer TO     | Date/Time      | Reason                 |
|----------------------|-----------------|-----------------|----------------|------------------------|
| JD54605-1.1          | Secured Storage | Edward Durner   | 11/01/22 16:56 | Retrieve from Storage  |
| JD54605-1.1          | Edward Durner   | GCMS2U          | 11/01/22 16:56 | Load on Instrument     |
| JD54605-1.1          | GCMS2U          | Edward Durner   | 11/02/22 09:49 | Unload from Instrument |
| JD54605-1.1          | Edward Durner   | Secured Storage | 11/02/22 09:49 | Return to Storage      |
| JD54605-2.2          | Secured Storage | Edward Durner   | 11/01/22 16:56 | Retrieve from Storage  |
| JD54605-2.2          | Edward Durner   | GCMS2U          | 11/01/22 16:56 | Load on Instrument     |
| JD54605-2.2          | GCMS2U          | Edward Durner   | 11/02/22 09:49 | Unload from Instrument |
| JD54605-2.2          | Edward Durner   | Secured Storage | 11/02/22 09:49 | Return to Storage      |
| JD54605-3.1          | Secured Storage | Edward Durner   | 11/01/22 16:56 | Retrieve from Storage  |
| JD54605-3.1          | Edward Durner   | GCMS2U          | 11/01/22 16:56 | Load on Instrument     |
| JD54605-3.1          | GCMS2U          | Edward Durner   | 11/02/22 09:49 | Unload from Instrument |
| JD54605-3.1          | Edward Durner   | Secured Storage | 11/02/22 09:49 | Return to Storage      |
| JD54605-4.1          | Secured Storage | Edward Durner   | 11/01/22 16:56 | Retrieve from Storage  |
| JD54605-4.1          | Edward Durner   | GCMS2U          | 11/01/22 16:56 | Load on Instrument     |
| JD54605-4.1          | GCMS2U          | Edward Durner   | 11/02/22 09:49 | Unload from Instrument |
| JD54605-4.1          | Edward Durner   | Secured Storage | 11/02/22 09:49 | Return to Storage      |
| JD54605-4.2          | Secured Storage | Taylor Sauter   | 11/02/22 13:53 | Retrieve from Storage  |
| JD54605-4.2          | Taylor Sauter   | GCMS1K          | 11/02/22 13:53 | Load on Instrument     |
| JD54605-4.2          | GCMS1K          | Nicole Hornlien | 11/03/22 17:48 | Unload from Instrument |
| JD54605-4.2          | Nicole Hornlien | Secured Storage | 11/03/22 17:48 | Return to Storage      |
| JD54605-5.1          | Secured Storage | Edward Durner   | 11/01/22 16:56 | Retrieve from Storage  |
| JD54605-5.1          | Edward Durner   | GCMS2U          | 11/01/22 16:56 | Load on Instrument     |
| JD54605-5.1          | GCMS2U          | Edward Durner   | 11/02/22 09:49 | Unload from Instrument |
| JD54605-5.1          | Edward Durner   | Secured Storage | 11/02/22 09:49 | Return to Storage      |
| JD54605-6.2          | Secured Storage | Edward Durner   | 11/01/22 16:56 | Retrieve from Storage  |
| JD54605-6.2          | Edward Durner   | GCMS2U          | 11/01/22 16:56 | Load on Instrument     |
| JD54605-6.2          | GCMS2U          | Edward Durner   | 11/02/22 09:49 | Unload from Instrument |
| JD54605-6.2          | Edward Durner   | Secured Storage | 11/02/22 09:49 | Return to Storage      |
| JD54605-7.1          | Secured Storage | Edward Durner   | 11/01/22 16:56 | Retrieve from Storage  |
| JD54605-7.1          | Edward Durner   | GCMS2U          | 11/01/22 16:56 | Load on Instrument     |
| JD54605-7.1          | GCMS2U          | Edward Durner   | 11/02/22 09:49 | Unload from Instrument |
| JD54605-7.1          | Edward Durner   | Secured Storage | 11/02/22 09:49 | Return to Storage      |
| JD54605-8.2          | Secured Storage | Edward Durner   | 11/01/22 16:56 | Retrieve from Storage  |
| JD54605-8.2          | Edward Durner   | GCMS2U          | 11/01/22 16:56 | Load on Instrument     |
| JD54605-8.2          | GCMS2U          | Edward Durner   | 11/02/22 09:49 | Unload from Instrument |
| JD54605-8.2          | Edward Durner   | Secured Storage | 11/02/22 09:49 | Return to Storage      |



## SGS Internal Chain of Custody

Page 2 of 2

**Job Number:** JD54605  
**Account:** FLSNYYNY Fleming-Lee Shue, Inc.  
**Project:** Info Tech High School, 21-16 44th Road, Long Island City, NY  
**Received:** 10/28/22

| Sample.Bottle<br>Number | Transfer<br>FROM | Transfer<br>TO  | Date/Time      | Reason                 |
|-------------------------|------------------|-----------------|----------------|------------------------|
| JD54605-9.1             | Secured Storage  | Edward Durner   | 11/01/22 16:56 | Retrieve from Storage  |
| JD54605-9.1             | Edward Durner    | GCMS2U          | 11/01/22 16:56 | Load on Instrument     |
| JD54605-9.1             | GCMS2U           | Edward Durner   | 11/02/22 09:49 | Unload from Instrument |
| JD54605-9.1             | Edward Durner    | Secured Storage | 11/02/22 09:49 | Return to Storage      |
| JD54605-10.2            | Secured Storage  | Edward Durner   | 11/01/22 16:56 | Retrieve from Storage  |
| JD54605-10.2            | Edward Durner    | GCMS2U          | 11/01/22 16:56 | Load on Instrument     |
| JD54605-10.2            | GCMS2U           | Edward Durner   | 11/02/22 09:49 | Unload from Instrument |
| JD54605-10.2            | Edward Durner    | Secured Storage | 11/02/22 09:49 | Return to Storage      |
| JD54605-11.1            | Secured Storage  | Edward Durner   | 11/01/22 16:56 | Retrieve from Storage  |
| JD54605-11.1            | Edward Durner    | GCMS2U          | 11/01/22 16:56 | Load on Instrument     |
| JD54605-11.1            | GCMS2U           | Edward Durner   | 11/02/22 09:49 | Unload from Instrument |
| JD54605-11.1            | Edward Durner    | Secured Storage | 11/02/22 09:49 | Return to Storage      |
| JD54605-11.2            | Secured Storage  | Taylor Sauter   | 11/02/22 13:53 | Retrieve from Storage  |
| JD54605-11.2            | Taylor Sauter    | GCMS1K          | 11/02/22 13:53 | Load on Instrument     |
| JD54605-11.2            | GCMS1K           | Nicole Hornlien | 11/03/22 17:48 | Unload from Instrument |
| JD54605-11.2            | Nicole Hornlien  | Secured Storage | 11/03/22 17:48 | Return to Storage      |

## MS Volatiles

### QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Internal Standard Area Summaries
- Surrogate Recovery Summaries
- Initial and Continuing Calibration Summaries
- Run Sequence Reports

## Method Blank Summary

Page 1 of 2

Job Number: JD54605

Account: FLSNYYY Fleming-Lee Shue, Inc.

Project: Info Tech High School, 21-16 44th Road, Long Island City, NY

| Sample     | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|------------|-----------|----|----------|----|-----------|------------|------------------|
| V2U2018-MB | 2U49695.D | 1  | 11/01/22 | ED | n/a       | n/a        | V2U2018          |

The QC reported here applies to the following samples:

Method: SW846 8260D

JD54605-1, JD54605-3, JD54605-4, JD54605-7, JD54605-9, JD54605-10

| CAS No.    | Compound                    | Result | RL   | MDL  | Units | Q |
|------------|-----------------------------|--------|------|------|-------|---|
| 67-64-1    | Acetone                     | ND     | 10   | 3.1  | ug/l  |   |
| 71-43-2    | Benzene                     | ND     | 0.50 | 0.43 | ug/l  |   |
| 74-97-5    | Bromochloromethane          | ND     | 1.0  | 0.48 | ug/l  |   |
| 75-27-4    | Bromodichloromethane        | ND     | 1.0  | 0.45 | ug/l  |   |
| 75-25-2    | Bromoform                   | ND     | 1.0  | 0.63 | ug/l  |   |
| 74-83-9    | Bromomethane                | ND     | 2.0  | 1.6  | ug/l  |   |
| 78-93-3    | 2-Butanone (MEK)            | ND     | 10   | 2.7  | ug/l  |   |
| 75-15-0    | Carbon disulfide            | ND     | 2.0  | 0.46 | ug/l  |   |
| 56-23-5    | Carbon tetrachloride        | ND     | 1.0  | 0.55 | ug/l  |   |
| 108-90-7   | Chlorobenzene               | ND     | 1.0  | 0.56 | ug/l  |   |
| 75-00-3    | Chloroethane                | ND     | 1.0  | 0.73 | ug/l  |   |
| 67-66-3    | Chloroform                  | ND     | 1.0  | 0.50 | ug/l  |   |
| 74-87-3    | Chloromethane               | ND     | 1.0  | 0.76 | ug/l  |   |
| 110-82-7   | Cyclohexane                 | ND     | 5.0  | 0.78 | ug/l  |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | ND     | 2.0  | 0.53 | ug/l  |   |
| 124-48-1   | Dibromochloromethane        | ND     | 1.0  | 0.56 | ug/l  |   |
| 106-93-4   | 1,2-Dibromoethane           | ND     | 1.0  | 0.48 | ug/l  |   |
| 95-50-1    | 1,2-Dichlorobenzene         | ND     | 1.0  | 0.53 | ug/l  |   |
| 541-73-1   | 1,3-Dichlorobenzene         | ND     | 1.0  | 0.54 | ug/l  |   |
| 106-46-7   | 1,4-Dichlorobenzene         | ND     | 1.0  | 0.51 | ug/l  |   |
| 75-71-8    | Dichlorodifluoromethane     | ND     | 2.0  | 0.56 | ug/l  |   |
| 75-34-3    | 1,1-Dichloroethane          | ND     | 1.0  | 0.57 | ug/l  |   |
| 107-06-2   | 1,2-Dichloroethane          | ND     | 1.0  | 0.60 | ug/l  |   |
| 75-35-4    | 1,1-Dichloroethene          | ND     | 1.0  | 0.59 | ug/l  |   |
| 156-59-2   | cis-1,2-Dichloroethene      | ND     | 1.0  | 0.51 | ug/l  |   |
| 156-60-5   | trans-1,2-Dichloroethene    | ND     | 1.0  | 0.54 | ug/l  |   |
| 78-87-5    | 1,2-Dichloropropane         | ND     | 1.0  | 0.51 | ug/l  |   |
| 10061-01-5 | cis-1,3-Dichloropropene     | ND     | 1.0  | 0.47 | ug/l  |   |
| 10061-02-6 | trans-1,3-Dichloropropene   | ND     | 1.0  | 0.43 | ug/l  |   |
| 123-91-1   | 1,4-Dioxane                 | ND     | 130  | 19   | ug/l  |   |
| 100-41-4   | Ethylbenzene                | ND     | 1.0  | 0.60 | ug/l  |   |
| 76-13-1    | Freon 113                   | ND     | 5.0  | 0.58 | ug/l  |   |
| 591-78-6   | 2-Hexanone                  | ND     | 5.0  | 2.0  | ug/l  |   |
| 98-82-8    | Isopropylbenzene            | ND     | 1.0  | 0.65 | ug/l  |   |
| 79-20-9    | Methyl Acetate              | ND     | 5.0  | 0.80 | ug/l  |   |
| 108-87-2   | Methylcyclohexane           | ND     | 5.0  | 0.60 | ug/l  |   |

## Method Blank Summary

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**Job Number:** JD54605

**Account:** FLSNYYNY Fleming-Lee Shue, Inc.

**Project:** Info Tech High School, 21-16 44th Road, Long Island City, NY

| Sample     | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|------------|-----------|----|----------|----|-----------|------------|------------------|
| V2U2018-MB | 2U49695.D | 1  | 11/01/22 | ED | n/a       | n/a        | V2U2018          |

**The QC reported here applies to the following samples:**

**Method:** SW846 8260D

JD54605-1, JD54605-3, JD54605-4, JD54605-7, JD54605-9, JD54605-10

| CAS No.   | Compound                   | Result | RL  | MDL  | Units | Q |
|-----------|----------------------------|--------|-----|------|-------|---|
| 1634-04-4 | Methyl Tert Butyl Ether    | ND     | 1.0 | 0.51 | ug/l  |   |
| 108-10-1  | 4-Methyl-2-pentanone(MIBK) | ND     | 5.0 | 1.9  | ug/l  |   |
| 75-09-2   | Methylene chloride         | ND     | 2.0 | 1.0  | ug/l  |   |
| 100-42-5  | Styrene                    | ND     | 1.0 | 0.49 | ug/l  |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane  | ND     | 1.0 | 0.65 | ug/l  |   |
| 127-18-4  | Tetrachloroethene          | ND     | 1.0 | 0.56 | ug/l  |   |
| 108-88-3  | Toluene                    | ND     | 1.0 | 0.49 | ug/l  |   |
| 87-61-6   | 1,2,3-Trichlorobenzene     | ND     | 1.0 | 0.50 | ug/l  |   |
| 120-82-1  | 1,2,4-Trichlorobenzene     | ND     | 1.0 | 0.50 | ug/l  |   |
| 71-55-6   | 1,1,1-Trichloroethane      | ND     | 1.0 | 0.54 | ug/l  |   |
| 79-00-5   | 1,1,2-Trichloroethane      | ND     | 1.0 | 0.53 | ug/l  |   |
| 79-01-6   | Trichloroethene            | ND     | 1.0 | 0.53 | ug/l  |   |
| 75-69-4   | Trichlorofluoromethane     | ND     | 2.0 | 0.40 | ug/l  |   |
| 75-01-4   | Vinyl chloride             | ND     | 1.0 | 0.52 | ug/l  |   |
|           | m,p-Xylene                 | ND     | 1.0 | 0.78 | ug/l  |   |
| 95-47-6   | o-Xylene                   | ND     | 1.0 | 0.59 | ug/l  |   |
| 1330-20-7 | Xylene (total)             | ND     | 1.0 | 0.59 | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Limits       |
|------------|-----------------------|--------------|
| 1868-53-7  | Dibromofluoromethane  | 102% 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 109% 80-120% |
| 2037-26-5  | Toluene-D8            | 104% 80-120% |
| 460-00-4   | 4-Bromofluorobenzene  | 99% 82-114%  |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|---------|----------------------------------|------|------------|-------|---|
|         | system artifact                  | 1.36 | 6.2        | ug/l  | J |
|         | Total TIC, Volatile              |      | 0          | ug/l  |   |

**Method Blank Summary**

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**Job Number:** JD54605**Account:** FLSNYYY Fleming-Lee Shue, Inc.**Project:** Info Tech High School, 21-16 44th Road, Long Island City, NY

| Sample     | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|------------|-----------|----|----------|----|-----------|------------|------------------|
| V1U2018-MB | 1U49696.D | 1  | 11/01/22 | ED | n/a       | n/a        | V1U2018          |

**The QC reported here applies to the following samples:****Method:** SW846 8260D

JD54605-2, JD54605-5, JD54605-6, JD54605-8, JD54605-9

| CAS No.    | Compound                    | Result | RL   | MDL  | Units | Q |
|------------|-----------------------------|--------|------|------|-------|---|
| 67-64-1    | Acetone                     | ND     | 10   | 3.1  | ug/l  |   |
| 71-43-2    | Benzene                     | ND     | 0.50 | 0.43 | ug/l  |   |
| 74-97-5    | Bromochloromethane          | ND     | 1.0  | 0.48 | ug/l  |   |
| 75-27-4    | Bromodichloromethane        | ND     | 1.0  | 0.45 | ug/l  |   |
| 75-25-2    | Bromoform                   | ND     | 1.0  | 0.63 | ug/l  |   |
| 74-83-9    | Bromomethane                | ND     | 2.0  | 1.6  | ug/l  |   |
| 78-93-3    | 2-Butanone (MEK)            | ND     | 10   | 2.7  | ug/l  |   |
| 75-15-0    | Carbon disulfide            | ND     | 2.0  | 0.46 | ug/l  |   |
| 56-23-5    | Carbon tetrachloride        | ND     | 1.0  | 0.55 | ug/l  |   |
| 108-90-7   | Chlorobenzene               | ND     | 1.0  | 0.56 | ug/l  |   |
| 75-00-3    | Chloroethane                | ND     | 1.0  | 0.73 | ug/l  |   |
| 67-66-3    | Chloroform                  | ND     | 1.0  | 0.50 | ug/l  |   |
| 74-87-3    | Chloromethane               | ND     | 1.0  | 0.76 | ug/l  |   |
| 110-82-7   | Cyclohexane                 | ND     | 5.0  | 0.78 | ug/l  |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | ND     | 2.0  | 0.53 | ug/l  |   |
| 124-48-1   | Dibromochloromethane        | ND     | 1.0  | 0.56 | ug/l  |   |
| 106-93-4   | 1,2-Dibromoethane           | ND     | 1.0  | 0.48 | ug/l  |   |
| 95-50-1    | 1,2-Dichlorobenzene         | ND     | 1.0  | 0.53 | ug/l  |   |
| 541-73-1   | 1,3-Dichlorobenzene         | ND     | 1.0  | 0.54 | ug/l  |   |
| 106-46-7   | 1,4-Dichlorobenzene         | ND     | 1.0  | 0.51 | ug/l  |   |
| 75-71-8    | Dichlorodifluoromethane     | ND     | 2.0  | 0.56 | ug/l  |   |
| 75-34-3    | 1,1-Dichloroethane          | ND     | 1.0  | 0.57 | ug/l  |   |
| 107-06-2   | 1,2-Dichloroethane          | ND     | 1.0  | 0.60 | ug/l  |   |
| 75-35-4    | 1,1-Dichloroethene          | ND     | 1.0  | 0.59 | ug/l  |   |
| 156-59-2   | cis-1,2-Dichloroethene      | ND     | 1.0  | 0.51 | ug/l  |   |
| 156-60-5   | trans-1,2-Dichloroethene    | ND     | 1.0  | 0.54 | ug/l  |   |
| 78-87-5    | 1,2-Dichloropropane         | ND     | 1.0  | 0.51 | ug/l  |   |
| 10061-01-5 | cis-1,3-Dichloropropene     | ND     | 1.0  | 0.47 | ug/l  |   |
| 10061-02-6 | trans-1,3-Dichloropropene   | ND     | 1.0  | 0.43 | ug/l  |   |
| 123-91-1   | 1,4-Dioxane                 | ND     | 130  | 19   | ug/l  |   |
| 100-41-4   | Ethylbenzene                | ND     | 1.0  | 0.60 | ug/l  |   |
| 76-13-1    | Freon 113                   | ND     | 5.0  | 0.58 | ug/l  |   |
| 591-78-6   | 2-Hexanone                  | ND     | 5.0  | 2.0  | ug/l  |   |
| 98-82-8    | Isopropylbenzene            | ND     | 1.0  | 0.65 | ug/l  |   |
| 79-20-9    | Methyl Acetate              | ND     | 5.0  | 0.80 | ug/l  |   |
| 108-87-2   | Methylcyclohexane           | ND     | 5.0  | 0.60 | ug/l  |   |

## Method Blank Summary

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**Job Number:** JD54605**Account:** FLSNYYNY Fleming-Lee Shue, Inc.**Project:** Info Tech High School, 21-16 44th Road, Long Island City, NY

| Sample     | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|------------|-----------|----|----------|----|-----------|------------|------------------|
| V1U2018-MB | 1U49696.D | 1  | 11/01/22 | ED | n/a       | n/a        | V1U2018          |

**The QC reported here applies to the following samples:****Method:** SW846 8260D

JD54605-2, JD54605-5, JD54605-6, JD54605-8, JD54605-9

| CAS No.   | Compound                   | Result | RL  | MDL  | Units | Q |
|-----------|----------------------------|--------|-----|------|-------|---|
| 1634-04-4 | Methyl Tert Butyl Ether    | ND     | 1.0 | 0.51 | ug/l  |   |
| 108-10-1  | 4-Methyl-2-pentanone(MIBK) | ND     | 5.0 | 1.9  | ug/l  |   |
| 75-09-2   | Methylene chloride         | ND     | 2.0 | 1.0  | ug/l  |   |
| 100-42-5  | Styrene                    | ND     | 1.0 | 0.49 | ug/l  |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane  | ND     | 1.0 | 0.65 | ug/l  |   |
| 127-18-4  | Tetrachloroethene          | ND     | 1.0 | 0.56 | ug/l  |   |
| 108-88-3  | Toluene                    | ND     | 1.0 | 0.49 | ug/l  |   |
| 87-61-6   | 1,2,3-Trichlorobenzene     | ND     | 1.0 | 0.50 | ug/l  |   |
| 120-82-1  | 1,2,4-Trichlorobenzene     | ND     | 1.0 | 0.50 | ug/l  |   |
| 71-55-6   | 1,1,1-Trichloroethane      | ND     | 1.0 | 0.54 | ug/l  |   |
| 79-00-5   | 1,1,2-Trichloroethane      | ND     | 1.0 | 0.53 | ug/l  |   |
| 79-01-6   | Trichloroethene            | ND     | 1.0 | 0.53 | ug/l  |   |
| 75-69-4   | Trichlorofluoromethane     | ND     | 2.0 | 0.40 | ug/l  |   |
| 75-01-4   | Vinyl chloride             | ND     | 1.0 | 0.52 | ug/l  |   |
|           | m,p-Xylene                 | ND     | 1.0 | 0.78 | ug/l  |   |
| 95-47-6   | o-Xylene                   | ND     | 1.0 | 0.59 | ug/l  |   |
| 1330-20-7 | Xylene (total)             | ND     | 1.0 | 0.59 | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Limits       |
|------------|-----------------------|--------------|
| 1868-53-7  | Dibromofluoromethane  | 102% 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 108% 80-120% |
| 2037-26-5  | Toluene-D8            | 103% 80-120% |
| 460-00-4   | 4-Bromofluorobenzene  | 97% 82-114%  |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|---------|----------------------------------|------|------------|-------|---|
|         | Total TIC, Volatile              |      | 0          | ug/l  |   |

## Method Blank Summary

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Job Number: JD54605

Account: FLSNYYNY Fleming-Lee Shue, Inc.

Project: Info Tech High School, 21-16 44th Road, Long Island City, NY

| Sample   | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|----------|-----------|----|----------|----|-----------|------------|------------------|
| V1K38-MB | 1K01232.D | 1  | 11/02/22 | TS | n/a       | n/a        | V1K38            |

The QC reported here applies to the following samples:

Method: SW846 8260D

JD54605-4, JD54605-11

| CAS No.    | Compound                    | Result | RL   | MDL  | Units | Q |
|------------|-----------------------------|--------|------|------|-------|---|
| 67-64-1    | Acetone                     | ND     | 10   | 3.1  | ug/l  |   |
| 71-43-2    | Benzene                     | ND     | 0.50 | 0.43 | ug/l  |   |
| 74-97-5    | Bromochloromethane          | ND     | 1.0  | 0.48 | ug/l  |   |
| 75-27-4    | Bromodichloromethane        | ND     | 1.0  | 0.45 | ug/l  |   |
| 75-25-2    | Bromoform                   | ND     | 1.0  | 0.63 | ug/l  |   |
| 74-83-9    | Bromomethane                | 2.2    | 2.0  | 1.6  | ug/l  |   |
| 78-93-3    | 2-Butanone (MEK)            | ND     | 10   | 2.7  | ug/l  |   |
| 75-15-0    | Carbon disulfide            | ND     | 2.0  | 0.46 | ug/l  |   |
| 56-23-5    | Carbon tetrachloride        | ND     | 1.0  | 0.55 | ug/l  |   |
| 108-90-7   | Chlorobenzene               | ND     | 1.0  | 0.56 | ug/l  |   |
| 75-00-3    | Chloroethane                | ND     | 1.0  | 0.73 | ug/l  |   |
| 67-66-3    | Chloroform                  | ND     | 1.0  | 0.50 | ug/l  |   |
| 74-87-3    | Chloromethane               | ND     | 1.0  | 0.76 | ug/l  |   |
| 110-82-7   | Cyclohexane                 | ND     | 5.0  | 0.78 | ug/l  |   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | ND     | 2.0  | 0.53 | ug/l  |   |
| 124-48-1   | Dibromochloromethane        | ND     | 1.0  | 0.56 | ug/l  |   |
| 106-93-4   | 1,2-Dibromoethane           | ND     | 1.0  | 0.48 | ug/l  |   |
| 95-50-1    | 1,2-Dichlorobenzene         | ND     | 1.0  | 0.53 | ug/l  |   |
| 541-73-1   | 1,3-Dichlorobenzene         | ND     | 1.0  | 0.54 | ug/l  |   |
| 106-46-7   | 1,4-Dichlorobenzene         | ND     | 1.0  | 0.51 | ug/l  |   |
| 75-71-8    | Dichlorodifluoromethane     | ND     | 2.0  | 0.56 | ug/l  |   |
| 75-34-3    | 1,1-Dichloroethane          | ND     | 1.0  | 0.57 | ug/l  |   |
| 107-06-2   | 1,2-Dichloroethane          | ND     | 1.0  | 0.60 | ug/l  |   |
| 75-35-4    | 1,1-Dichloroethene          | ND     | 1.0  | 0.59 | ug/l  |   |
| 156-59-2   | cis-1,2-Dichloroethene      | ND     | 1.0  | 0.51 | ug/l  |   |
| 156-60-5   | trans-1,2-Dichloroethene    | ND     | 1.0  | 0.54 | ug/l  |   |
| 78-87-5    | 1,2-Dichloropropane         | ND     | 1.0  | 0.51 | ug/l  |   |
| 10061-01-5 | cis-1,3-Dichloropropene     | ND     | 1.0  | 0.47 | ug/l  |   |
| 10061-02-6 | trans-1,3-Dichloropropene   | ND     | 1.0  | 0.43 | ug/l  |   |
| 123-91-1   | 1,4-Dioxane                 | ND     | 130  | 19   | ug/l  |   |
| 100-41-4   | Ethylbenzene                | ND     | 1.0  | 0.60 | ug/l  |   |
| 76-13-1    | Freon 113                   | ND     | 5.0  | 0.58 | ug/l  |   |
| 591-78-6   | 2-Hexanone                  | ND     | 5.0  | 2.0  | ug/l  |   |
| 98-82-8    | Isopropylbenzene            | ND     | 1.0  | 0.65 | ug/l  |   |
| 79-20-9    | Methyl Acetate              | ND     | 5.0  | 0.80 | ug/l  |   |
| 108-87-2   | Methylcyclohexane           | ND     | 5.0  | 0.60 | ug/l  |   |

## Method Blank Summary

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**Job Number:** JD54605

**Account:** FLSNYYNY Fleming-Lee Shue, Inc.

**Project:** Info Tech High School, 21-16 44th Road, Long Island City, NY

| Sample   | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|----------|-----------|----|----------|----|-----------|------------|------------------|
| V1K38-MB | 1K01232.D | 1  | 11/02/22 | TS | n/a       | n/a        | V1K38            |

The QC reported here applies to the following samples:

Method: SW846 8260D

JD54605-4, JD54605-11

| CAS No.   | Compound                   | Result | RL  | MDL  | Units | Q |
|-----------|----------------------------|--------|-----|------|-------|---|
| 1634-04-4 | Methyl Tert Butyl Ether    | ND     | 1.0 | 0.51 | ug/l  |   |
| 108-10-1  | 4-Methyl-2-pentanone(MIBK) | ND     | 5.0 | 1.9  | ug/l  |   |
| 75-09-2   | Methylene chloride         | ND     | 2.0 | 1.0  | ug/l  |   |
| 100-42-5  | Styrene                    | ND     | 1.0 | 0.49 | ug/l  |   |
| 79-34-5   | 1,1,2,2-Tetrachloroethane  | ND     | 1.0 | 0.65 | ug/l  |   |
| 127-18-4  | Tetrachloroethene          | ND     | 1.0 | 0.56 | ug/l  |   |
| 108-88-3  | Toluene                    | ND     | 1.0 | 0.49 | ug/l  |   |
| 87-61-6   | 1,2,3-Trichlorobenzene     | ND     | 1.0 | 0.50 | ug/l  |   |
| 120-82-1  | 1,2,4-Trichlorobenzene     | ND     | 1.0 | 0.50 | ug/l  |   |
| 71-55-6   | 1,1,1-Trichloroethane      | ND     | 1.0 | 0.54 | ug/l  |   |
| 79-00-5   | 1,1,2-Trichloroethane      | ND     | 1.0 | 0.53 | ug/l  |   |
| 79-01-6   | Trichloroethene            | ND     | 1.0 | 0.53 | ug/l  |   |
| 75-69-4   | Trichlorofluoromethane     | ND     | 2.0 | 0.40 | ug/l  |   |
| 75-01-4   | Vinyl chloride             | ND     | 1.0 | 0.52 | ug/l  |   |
|           | m,p-Xylene                 | ND     | 1.0 | 0.78 | ug/l  |   |
| 95-47-6   | o-Xylene                   | ND     | 1.0 | 0.59 | ug/l  |   |
| 1330-20-7 | Xylene (total)             | ND     | 1.0 | 0.59 | ug/l  |   |

| CAS No.    | Surrogate Recoveries  | Limits       |
|------------|-----------------------|--------------|
| 1868-53-7  | Dibromofluoromethane  | 103% 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 107% 80-120% |
| 2037-26-5  | Toluene-D8            | 105% 80-120% |
| 460-00-4   | 4-Bromofluorobenzene  | 112% 82-114% |

| CAS No. | Tentatively Identified Compounds | R.T. | Est. Conc. | Units | Q |
|---------|----------------------------------|------|------------|-------|---|
|         | system artifact                  | 1.10 | 8          | ug/l  | J |
|         | Total TIC, Volatile              |      | 0          | ug/l  |   |



## Blank Spike Summary

Job Number: JD54605

Account: FLSNYYY Fleming-Lee Shue, Inc.

Project: Info Tech High School, 21-16 44th Road, Long Island City, NY

| Sample     | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|------------|-----------|----|----------|----|-----------|------------|------------------|
| V1U2018-BS | 1U49692.D | 1  | 11/01/22 | ED | n/a       | n/a        | V1U2018          |

The QC reported here applies to the following samples:

Method: SW846 8260D

JD54605-2, JD54605-5, JD54605-6, JD54605-8, JD54605-9

| CAS No.    | Compound                    | Spike<br>ug/l | BSP<br>ug/l | BSP<br>% | Limits |
|------------|-----------------------------|---------------|-------------|----------|--------|
| 67-64-1    | Acetone                     | 200           | 234         | 117      | 27-175 |
| 71-43-2    | Benzene                     | 50            | 50.9        | 102      | 80-115 |
| 74-97-5    | Bromochloromethane          | 50            | 47.4        | 95       | 83-122 |
| 75-27-4    | Bromodichloromethane        | 50            | 51.0        | 102      | 82-119 |
| 75-25-2    | Bromoform                   | 50            | 50.6        | 101      | 77-135 |
| 74-83-9    | Bromomethane                | 50            | 57.5        | 115      | 40-162 |
| 78-93-3    | 2-Butanone (MEK)            | 200           | 201         | 101      | 61-150 |
| 75-15-0    | Carbon disulfide            | 50            | 49.1        | 98       | 64-130 |
| 56-23-5    | Carbon tetrachloride        | 50            | 45.0        | 90       | 75-127 |
| 108-90-7   | Chlorobenzene               | 50            | 50.3        | 101      | 80-115 |
| 75-00-3    | Chloroethane                | 50            | 55.6        | 111      | 56-144 |
| 67-66-3    | Chloroform                  | 50            | 60.1        | 120* a   | 75-116 |
| 74-87-3    | Chloromethane               | 50            | 43.1        | 86       | 41-153 |
| 110-82-7   | Cyclohexane                 | 50            | 51.3        | 103      | 66-129 |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 50            | 45.5        | 91       | 69-134 |
| 124-48-1   | Dibromochloromethane        | 50            | 49.6        | 99       | 81-123 |
| 106-93-4   | 1,2-Dibromoethane           | 50            | 48.1        | 96       | 67-138 |
| 95-50-1    | 1,2-Dichlorobenzene         | 50            | 48.5        | 97       | 81-117 |
| 541-73-1   | 1,3-Dichlorobenzene         | 50            | 49.4        | 99       | 81-115 |
| 106-46-7   | 1,4-Dichlorobenzene         | 50            | 49.6        | 99       | 80-114 |
| 75-71-8    | Dichlorodifluoromethane     | 50            | 37.6        | 75       | 43-152 |
| 75-34-3    | 1,1-Dichloroethane          | 50            | 49.7        | 99       | 75-125 |
| 107-06-2   | 1,2-Dichloroethane          | 50            | 51.1        | 102      | 73-117 |
| 75-35-4    | 1,1-Dichloroethene          | 50            | 50.8        | 102      | 70-124 |
| 156-59-2   | cis-1,2-Dichloroethene      | 50            | 45.8        | 92       | 80-120 |
| 156-60-5   | trans-1,2-Dichloroethene    | 50            | 53.2        | 106      | 77-121 |
| 78-87-5    | 1,2-Dichloropropane         | 50            | 52.1        | 104      | 79-121 |
| 10061-01-5 | cis-1,3-Dichloropropene     | 50            | 49.2        | 98       | 83-123 |
| 10061-02-6 | trans-1,3-Dichloropropene   | 50            | 51.4        | 103      | 83-122 |
| 123-91-1   | 1,4-Dioxane                 | 1250          | 1390        | 111      | 64-150 |
| 100-41-4   | Ethylbenzene                | 50            | 50.8        | 102      | 78-116 |
| 76-13-1    | Freon 113                   | 50            | 49.2        | 98       | 68-134 |
| 591-78-6   | 2-Hexanone                  | 200           | 200         | 100      | 66-136 |
| 98-82-8    | Isopropylbenzene            | 50            | 51.5        | 103      | 78-121 |
| 79-20-9    | Methyl Acetate              | 50            | 46.8        | 94       | 60-143 |
| 108-87-2   | Methylcyclohexane           | 50            | 48.2        | 96       | 71-123 |

\* = Outside of Control Limits.

## Blank Spike Summary

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**Job Number:** JD54605**Account:** FLSNYYNY Fleming-Lee Shue, Inc.**Project:** Info Tech High School, 21-16 44th Road, Long Island City, NY

| Sample     | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|------------|-----------|----|----------|----|-----------|------------|------------------|
| V1U2018-BS | 1U49692.D | 1  | 11/01/22 | ED | n/a       | n/a        | V1U2018          |

**The QC reported here applies to the following samples:****Method:** SW846 8260D

JD54605-2, JD54605-5, JD54605-6, JD54605-8, JD54605-9

| CAS No.   | Compound                   | Spike<br>ug/l | BSP<br>ug/l | BSP<br>% | Limits |
|-----------|----------------------------|---------------|-------------|----------|--------|
| 1634-04-4 | Methyl Tert Butyl Ether    | 50            | 48.3        | 97       | 76-123 |
| 108-10-1  | 4-Methyl-2-pentanone(MIBK) | 200           | 200         | 100      | 73-134 |
| 75-09-2   | Methylene chloride         | 50            | 46.8        | 94       | 73-123 |
| 100-42-5  | Styrene                    | 50            | 52.4        | 105      | 81-125 |
| 79-34-5   | 1,1,2,2-Tetrachloroethane  | 50            | 46.5        | 93       | 73-126 |
| 127-18-4  | Tetrachloroethene          | 50            | 52.3        | 105      | 73-119 |
| 108-88-3  | Toluene                    | 50            | 49.9        | 100      | 79-116 |
| 87-61-6   | 1,2,3-Trichlorobenzene     | 50            | 46.9        | 94       | 63-137 |
| 120-82-1  | 1,2,4-Trichlorobenzene     | 50            | 48.0        | 96       | 68-135 |
| 71-55-6   | 1,1,1-Trichloroethane      | 50            | 47.7        | 95       | 76-124 |
| 79-00-5   | 1,1,2-Trichloroethane      | 50            | 52.2        | 104      | 83-117 |
| 79-01-6   | Trichloroethene            | 50            | 50.4        | 101      | 80-118 |
| 75-69-4   | Trichlorofluoromethane     | 50            | 53.2        | 106      | 67-134 |
| 75-01-4   | Vinyl chloride             | 50            | 46.6        | 93       | 52-146 |
|           | m,p-Xylene                 | 100           | 108         | 108      | 79-119 |
| 95-47-6   | o-Xylene                   | 50            | 50.9        | 102      | 81-119 |
| 1330-20-7 | Xylene (total)             | 150           | 159         | 106      | 80-119 |

| CAS No.    | Surrogate Recoveries  | BSP  | Limits  |
|------------|-----------------------|------|---------|
| 1868-53-7  | Dibromofluoromethane  | 91%  | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 105% | 80-120% |
| 2037-26-5  | Toluene-D8            | 96%  | 80-120% |
| 460-00-4   | 4-Bromofluorobenzene  | 96%  | 82-114% |

(a) Outside of in house control limits, but within reasonable method recovery limits.

\* = Outside of Control Limits.

**Blank Spike Summary**

Page 1 of 2

**Job Number:** JD54605**Account:** FLSNYYY Fleming-Lee Shue, Inc.**Project:** Info Tech High School, 21-16 44th Road, Long Island City, NY

| Sample     | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|------------|-----------|----|----------|----|-----------|------------|------------------|
| V2U2018-BS | 2U49693.D | 1  | 11/01/22 | ED | n/a       | n/a        | V2U2018          |

**The QC reported here applies to the following samples:****Method:** SW846 8260D

JD54605-1, JD54605-3, JD54605-4, JD54605-7, JD54605-9, JD54605-10

| CAS No.    | Compound                    | Spike<br>ug/l | BSP<br>ug/l | BSP<br>% | Limits |
|------------|-----------------------------|---------------|-------------|----------|--------|
| 67-64-1    | Acetone                     | 200           | 209         | 105      | 27-175 |
| 71-43-2    | Benzene                     | 50            | 51.7        | 103      | 80-115 |
| 74-97-5    | Bromochloromethane          | 50            | 45.3        | 91       | 83-122 |
| 75-27-4    | Bromodichloromethane        | 50            | 49.8        | 100      | 82-119 |
| 75-25-2    | Bromoform                   | 50            | 51.1        | 102      | 77-135 |
| 74-83-9    | Bromomethane                | 50            | 59.5        | 119      | 40-162 |
| 78-93-3    | 2-Butanone (MEK)            | 200           | 201         | 101      | 61-150 |
| 75-15-0    | Carbon disulfide            | 50            | 52.0        | 104      | 64-130 |
| 56-23-5    | Carbon tetrachloride        | 50            | 46.4        | 93       | 75-127 |
| 108-90-7   | Chlorobenzene               | 50            | 51.0        | 102      | 80-115 |
| 75-00-3    | Chloroethane                | 50            | 53.2        | 106      | 56-144 |
| 67-66-3    | Chloroform                  | 50            | 48.0        | 96       | 75-116 |
| 74-87-3    | Chloromethane               | 50            | 43.2        | 86       | 41-153 |
| 110-82-7   | Cyclohexane                 | 50            | 51.2        | 102      | 66-129 |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 50            | 45.1        | 90       | 69-134 |
| 124-48-1   | Dibromochloromethane        | 50            | 48.2        | 96       | 81-123 |
| 106-93-4   | 1,2-Dibromoethane           | 50            | 48.6        | 97       | 67-138 |
| 95-50-1    | 1,2-Dichlorobenzene         | 50            | 50.6        | 101      | 81-117 |
| 541-73-1   | 1,3-Dichlorobenzene         | 50            | 50.7        | 101      | 81-115 |
| 106-46-7   | 1,4-Dichlorobenzene         | 50            | 51.6        | 103      | 80-114 |
| 75-71-8    | Dichlorodifluoromethane     | 50            | 37.1        | 74       | 43-152 |
| 75-34-3    | 1,1-Dichloroethane          | 50            | 49.7        | 99       | 75-125 |
| 107-06-2   | 1,2-Dichloroethane          | 50            | 50.2        | 100      | 73-117 |
| 75-35-4    | 1,1-Dichloroethene          | 50            | 52.1        | 104      | 70-124 |
| 156-59-2   | cis-1,2-Dichloroethene      | 50            | 46.6        | 93       | 80-120 |
| 156-60-5   | trans-1,2-Dichloroethene    | 50            | 53.8        | 108      | 77-121 |
| 78-87-5    | 1,2-Dichloropropane         | 50            | 53.4        | 107      | 79-121 |
| 10061-01-5 | cis-1,3-Dichloropropene     | 50            | 50.3        | 101      | 83-123 |
| 10061-02-6 | trans-1,3-Dichloropropene   | 50            | 50.4        | 101      | 83-122 |
| 123-91-1   | 1,4-Dioxane                 | 1250          | 1320        | 106      | 64-150 |
| 100-41-4   | Ethylbenzene                | 50            | 51.2        | 102      | 78-116 |
| 76-13-1    | Freon 113                   | 50            | 52.9        | 106      | 68-134 |
| 591-78-6   | 2-Hexanone                  | 200           | 195         | 98       | 66-136 |
| 98-82-8    | Isopropylbenzene            | 50            | 55.2        | 110      | 78-121 |
| 79-20-9    | Methyl Acetate              | 50            | 45.8        | 92       | 60-143 |
| 108-87-2   | Methylcyclohexane           | 50            | 49.3        | 99       | 71-123 |

\* = Outside of Control Limits.

## Blank Spike Summary

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**Job Number:** JD54605

**Account:** FLSNYYNY Fleming-Lee Shue, Inc.

**Project:** Info Tech High School, 21-16 44th Road, Long Island City, NY

| Sample     | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|------------|-----------|----|----------|----|-----------|------------|------------------|
| V2U2018-BS | 2U49693.D | 1  | 11/01/22 | ED | n/a       | n/a        | V2U2018          |

**The QC reported here applies to the following samples:**

**Method:** SW846 8260D

JD54605-1, JD54605-3, JD54605-4, JD54605-7, JD54605-9, JD54605-10

| CAS No.   | Compound                   | Spike<br>ug/l | BSP<br>ug/l | BSP<br>% | Limits |
|-----------|----------------------------|---------------|-------------|----------|--------|
| 1634-04-4 | Methyl Tert Butyl Ether    | 50            | 47.6        | 95       | 76-123 |
| 108-10-1  | 4-Methyl-2-pentanone(MIBK) | 200           | 206         | 103      | 73-134 |
| 75-09-2   | Methylene chloride         | 50            | 46.4        | 93       | 73-123 |
| 100-42-5  | Styrene                    | 50            | 54.6        | 109      | 81-125 |
| 79-34-5   | 1,1,2,2-Tetrachloroethane  | 50            | 46.6        | 93       | 73-126 |
| 127-18-4  | Tetrachloroethene          | 50            | 52.3        | 105      | 73-119 |
| 108-88-3  | Toluene                    | 50            | 50.6        | 101      | 79-116 |
| 87-61-6   | 1,2,3-Trichlorobenzene     | 50            | 48.3        | 97       | 63-137 |
| 120-82-1  | 1,2,4-Trichlorobenzene     | 50            | 46.4        | 93       | 68-135 |
| 71-55-6   | 1,1,1-Trichloroethane      | 50            | 49.1        | 98       | 76-124 |
| 79-00-5   | 1,1,2-Trichloroethane      | 50            | 48.3        | 97       | 83-117 |
| 79-01-6   | Trichloroethene            | 50            | 52.0        | 104      | 80-118 |
| 75-69-4   | Trichlorofluoromethane     | 50            | 53.6        | 107      | 67-134 |
| 75-01-4   | Vinyl chloride             | 50            | 47.2        | 94       | 52-146 |
|           | m,p-Xylene                 | 100           | 111         | 111      | 79-119 |
| 95-47-6   | o-Xylene                   | 50            | 51.6        | 103      | 81-119 |
| 1330-20-7 | Xylene (total)             | 150           | 163         | 109      | 80-119 |

| CAS No.    | Surrogate Recoveries  | BSP  | Limits  |
|------------|-----------------------|------|---------|
| 1868-53-7  | Dibromofluoromethane  | 93%  | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 103% | 80-120% |
| 2037-26-5  | Toluene-D8            | 95%  | 80-120% |
| 460-00-4   | 4-Bromofluorobenzene  | 95%  | 82-114% |

\* = Outside of Control Limits.

**Blank Spike Summary**

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**Job Number:** JD54605**Account:** FLSNYYNY Fleming-Lee Shue, Inc.**Project:** Info Tech High School, 21-16 44th Road, Long Island City, NY

| Sample   | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|----------|-----------|----|----------|----|-----------|------------|------------------|
| V1K38-BS | 1K01228.D | 1  | 11/02/22 | TS | n/a       | n/a        | V1K38            |

**The QC reported here applies to the following samples:****Method:** SW846 8260D

JD54605-4, JD54605-11

| CAS No.    | Compound                    | Spike<br>ug/l | BSP<br>ug/l | BSP<br>% | Limits |
|------------|-----------------------------|---------------|-------------|----------|--------|
| 67-64-1    | Acetone                     | 200           | 180         | 90       | 27-175 |
| 71-43-2    | Benzene                     | 50            | 45.3        | 91       | 80-115 |
| 74-97-5    | Bromochloromethane          | 50            | 46.2        | 92       | 83-122 |
| 75-27-4    | Bromodichloromethane        | 50            | 50.6        | 101      | 82-119 |
| 75-25-2    | Bromoform                   | 50            | 50.3        | 101      | 77-135 |
| 74-83-9    | Bromomethane                | 50            | 51.6        | 103      | 40-162 |
| 78-93-3    | 2-Butanone (MEK)            | 200           | 207         | 104      | 61-150 |
| 75-15-0    | Carbon disulfide            | 50            | 48.0        | 96       | 64-130 |
| 56-23-5    | Carbon tetrachloride        | 50            | 44.8        | 90       | 75-127 |
| 108-90-7   | Chlorobenzene               | 50            | 46.6        | 93       | 80-115 |
| 75-00-3    | Chloroethane                | 50            | 45.5        | 91       | 56-144 |
| 67-66-3    | Chloroform                  | 50            | 48.4        | 97       | 75-116 |
| 74-87-3    | Chloromethane               | 50            | 45.9        | 92       | 41-153 |
| 110-82-7   | Cyclohexane                 | 50            | 48.7        | 97       | 66-129 |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 50            | 51.3        | 103      | 69-134 |
| 124-48-1   | Dibromochloromethane        | 50            | 47.4        | 95       | 81-123 |
| 106-93-4   | 1,2-Dibromoethane           | 50            | 49.9        | 100      | 67-138 |
| 95-50-1    | 1,2-Dichlorobenzene         | 50            | 44.7        | 89       | 81-117 |
| 541-73-1   | 1,3-Dichlorobenzene         | 50            | 45.7        | 91       | 81-115 |
| 106-46-7   | 1,4-Dichlorobenzene         | 50            | 46.4        | 93       | 80-114 |
| 75-71-8    | Dichlorodifluoromethane     | 50            | 50.1        | 100      | 43-152 |
| 75-34-3    | 1,1-Dichloroethane          | 50            | 49.7        | 99       | 75-125 |
| 107-06-2   | 1,2-Dichloroethane          | 50            | 49.4        | 99       | 73-117 |
| 75-35-4    | 1,1-Dichloroethene          | 50            | 48.1        | 96       | 70-124 |
| 156-59-2   | cis-1,2-Dichloroethene      | 50            | 47.4        | 95       | 80-120 |
| 156-60-5   | trans-1,2-Dichloroethene    | 50            | 44.4        | 89       | 77-121 |
| 78-87-5    | 1,2-Dichloropropane         | 50            | 49.1        | 98       | 79-121 |
| 10061-01-5 | cis-1,3-Dichloropropene     | 50            | 50.3        | 101      | 83-123 |
| 10061-02-6 | trans-1,3-Dichloropropene   | 50            | 55.3        | 111      | 83-122 |
| 123-91-1   | 1,4-Dioxane                 | 1250          | 1130        | 90       | 64-150 |
| 100-41-4   | Ethylbenzene                | 50            | 46.2        | 92       | 78-116 |
| 76-13-1    | Freon 113                   | 50            | 46.1        | 92       | 68-134 |
| 591-78-6   | 2-Hexanone                  | 200           | 207         | 104      | 66-136 |
| 98-82-8    | Isopropylbenzene            | 50            | 45.3        | 91       | 78-121 |
| 79-20-9    | Methyl Acetate              | 50            | 38.1        | 76       | 60-143 |
| 108-87-2   | Methylcyclohexane           | 50            | 42.5        | 85       | 71-123 |

\* = Outside of Control Limits.

## Blank Spike Summary

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**Job Number:** JD54605

**Account:** FLSNYYNY Fleming-Lee Shue, Inc.

**Project:** Info Tech High School, 21-16 44th Road, Long Island City, NY

| Sample   | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|----------|-----------|----|----------|----|-----------|------------|------------------|
| V1K38-BS | 1K01228.D | 1  | 11/02/22 | TS | n/a       | n/a        | V1K38            |

The QC reported here applies to the following samples:

Method: SW846 8260D

JD54605-4, JD54605-11

| CAS No.   | Compound                   | Spike<br>ug/l | BSP<br>ug/l | BSP<br>% | Limits |
|-----------|----------------------------|---------------|-------------|----------|--------|
| 1634-04-4 | Methyl Tert Butyl Ether    | 50            | 54.9        | 110      | 76-123 |
| 108-10-1  | 4-Methyl-2-pentanone(MIBK) | 200           | 206         | 103      | 73-134 |
| 75-09-2   | Methylene chloride         | 50            | 50.8        | 102      | 73-123 |
| 100-42-5  | Styrene                    | 50            | 48.7        | 97       | 81-125 |
| 79-34-5   | 1,1,2,2-Tetrachloroethane  | 50            | 56.0        | 112      | 73-126 |
| 127-18-4  | Tetrachloroethene          | 50            | 42.7        | 85       | 73-119 |
| 108-88-3  | Toluene                    | 50            | 45.5        | 91       | 79-116 |
| 87-61-6   | 1,2,3-Trichlorobenzene     | 50            | 47.8        | 96       | 63-137 |
| 120-82-1  | 1,2,4-Trichlorobenzene     | 50            | 48.0        | 96       | 68-135 |
| 71-55-6   | 1,1,1-Trichloroethane      | 50            | 50.9        | 102      | 76-124 |
| 79-00-5   | 1,1,2-Trichloroethane      | 50            | 50.1        | 100      | 83-117 |
| 79-01-6   | Trichloroethene            | 50            | 42.1        | 84       | 80-118 |
| 75-69-4   | Trichlorofluoromethane     | 50            | 48.5        | 97       | 67-134 |
| 75-01-4   | Vinyl chloride             | 50            | 46.5        | 93       | 52-146 |
|           | m,p-Xylene                 | 100           | 90.7        | 91       | 79-119 |
| 95-47-6   | o-Xylene                   | 50            | 46.8        | 94       | 81-119 |
| 1330-20-7 | Xylene (total)             | 150           | 137         | 91       | 80-119 |

| CAS No.    | Surrogate Recoveries  | BSP  | Limits  |
|------------|-----------------------|------|---------|
| 1868-53-7  | Dibromofluoromethane  | 104% | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 103% | 80-120% |
| 2037-26-5  | Toluene-D8            | 105% | 80-120% |
| 460-00-4   | 4-Bromofluorobenzene  | 113% | 82-114% |

\* = Outside of Control Limits.

## Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 2

Job Number: JD54605

Account: FLSNYYNY Fleming-Lee Shue, Inc.

Project: Info Tech High School, 21-16 44th Road, Long Island City, NY

| Sample       | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------------|-----------|----|----------|----|-----------|------------|------------------|
| JD54605-5MS  | 1U49702.D | 10 | 11/02/22 | ED | n/a       | n/a        | V1U2018          |
| JD54605-5MSD | 1U49704.D | 10 | 11/02/22 | ED | n/a       | n/a        | V1U2018          |
| JD54605-5    | 1U49700.D | 10 | 11/02/22 | ED | n/a       | n/a        | V1U2018          |

The QC reported here applies to the following samples:

Method: SW846 8260D

JD54605-2, JD54605-5, JD54605-6, JD54605-8, JD54605-9

| CAS No.    | Compound                    | JD54605-5 |   | Spike<br>ug/l | MS<br>ug/l | MS<br>%           | Spike<br>ug/l | MSD<br>ug/l | MSD<br>% | RPD | Limits<br>Rec/RPD |
|------------|-----------------------------|-----------|---|---------------|------------|-------------------|---------------|-------------|----------|-----|-------------------|
|            |                             | ug/l      | Q |               |            |                   |               |             |          |     |                   |
| 67-64-1    | Acetone                     | ND        |   | 2000          | 1470       | 74                | 2000          | 1430        | 72       | 3   | 22-134/19         |
| 71-43-2    | Benzene                     | ND        |   | 500           | 512        | 102               | 500           | 484         | 97       | 6   | 49-137/12         |
| 74-97-5    | Bromochloromethane          | ND        |   | 500           | 470        | 94                | 500           | 465         | 93       | 1   | 78-122/12         |
| 75-27-4    | Bromodichloromethane        | ND        |   | 500           | 513        | 103               | 500           | 492         | 98       | 4   | 76-121/12         |
| 75-25-2    | Bromoform                   | ND        |   | 500           | 502        | 100               | 500           | 499         | 100      | 1   | 70-133/13         |
| 74-83-9    | Bromomethane                | ND        |   | 500           | 651        | 130               | 500           | 604         | 121      | 7   | 27-164/38         |
| 78-93-3    | 2-Butanone (MEK)            | ND        |   | 2000          | 1790       | 90                | 2000          | 1690        | 85       | 6   | 52-137/17         |
| 75-15-0    | Carbon disulfide            | ND        |   | 500           | 460        | 92                | 500           | 435         | 87       | 6   | 54-136/16         |
| 56-23-5    | Carbon tetrachloride        | ND        |   | 500           | 436        | 87                | 500           | 457         | 91       | 5   | 70-132/13         |
| 108-90-7   | Chlorobenzene               | ND        |   | 500           | 502        | 100               | 500           | 486         | 97       | 3   | 68-123/12         |
| 75-00-3    | Chloroethane                | ND        |   | 500           | 583        | 117               | 500           | 542         | 108      | 7   | 48-152/17         |
| 67-66-3    | Chloroform                  | ND        |   | 500           | 609        | 122* <sup>a</sup> | 500           | 570         | 114      | 7   | 68-120/13         |
| 74-87-3    | Chloromethane               | ND        |   | 500           | 464        | 93                | 500           | 474         | 95       | 2   | 35-156/18         |
| 110-82-7   | Cyclohexane                 | ND        |   | 500           | 524        | 105               | 500           | 535         | 107      | 2   | 53-146/14         |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | ND        |   | 500           | 442        | 88                | 500           | 447         | 89       | 1   | 63-134/16         |
| 124-48-1   | Dibromochloromethane        | ND        |   | 500           | 488        | 98                | 500           | 484         | 97       | 1   | 75-122/12         |
| 106-93-4   | 1,2-Dibromoethane           | ND        |   | 500           | 475        | 95                | 500           | 477         | 95       | 0   | 63-134/12         |
| 95-50-1    | 1,2-Dichlorobenzene         | ND        |   | 500           | 493        | 99                | 500           | 480         | 96       | 3   | 74-119/12         |
| 541-73-1   | 1,3-Dichlorobenzene         | ND        |   | 500           | 501        | 100               | 500           | 481         | 96       | 4   | 75-117/12         |
| 106-46-7   | 1,4-Dichlorobenzene         | ND        |   | 500           | 502        | 100               | 500           | 487         | 97       | 3   | 72-117/12         |
| 75-71-8    | Dichlorodifluoromethane     | ND        |   | 500           | 436        | 87                | 500           | 459         | 92       | 5   | 34-163/16         |
| 75-34-3    | 1,1-Dichloroethane          | ND        |   | 500           | 486        | 97                | 500           | 466         | 93       | 4   | 68-129/13         |
| 107-06-2   | 1,2-Dichloroethane          | ND        |   | 500           | 522        | 104               | 500           | 491         | 98       | 6   | 66-120/13         |
| 75-35-4    | 1,1-Dichloroethene          | ND        |   | 500           | 496        | 99                | 500           | 464         | 93       | 7   | 59-133/15         |
| 156-59-2   | cis-1,2-Dichloroethene      | 9.5       | J | 500           | 460        | 90                | 500           | 448         | 88       | 3   | 52-140/12         |
| 156-60-5   | trans-1,2-Dichloroethene    | ND        |   | 500           | 509        | 102               | 500           | 491         | 98       | 4   | 70-125/13         |
| 78-87-5    | 1,2-Dichloropropane         | ND        |   | 500           | 532        | 106               | 500           | 506         | 101      | 5   | 73-124/12         |
| 10061-01-5 | cis-1,3-Dichloropropene     | ND        |   | 500           | 487        | 97                | 500           | 470         | 94       | 4   | 75-125/13         |
| 10061-02-6 | trans-1,3-Dichloropropene   | ND        |   | 500           | 513        | 103               | 500           | 494         | 99       | 4   | 75-122/12         |
| 123-91-1   | 1,4-Dioxane                 | ND        |   | 12500         | 13800      | 110               | 12500         | 13700       | 110      | 1   | 57-145/40         |
| 100-41-4   | Ethylbenzene                | ND        |   | 500           | 504        | 101               | 500           | 488         | 98       | 3   | 37-144/12         |
| 76-13-1    | Freon 113                   | ND        |   | 500           | 474        | 95                | 500           | 446         | 89       | 6   | 61-142/14         |
| 591-78-6   | 2-Hexanone                  | ND        |   | 2000          | 1950       | 98                | 2000          | 1880        | 94       | 4   | 56-132/16         |
| 98-82-8    | Isopropylbenzene            | ND        |   | 500           | 507        | 101               | 500           | 494         | 99       | 3   | 71-126/13         |
| 79-20-9    | Methyl Acetate              | ND        |   | 500           | 472        | 94                | 500           | 479         | 96       | 1   | 51-139/18         |
| 108-87-2   | Methylcyclohexane           | ND        |   | 500           | 474        | 95                | 500           | 449         | 90       | 5   | 59-137/16         |

\* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary

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**Job Number:** JD54605

**Account:** FLSNYYNY Fleming-Lee Shue, Inc.

**Project:** Info Tech High School, 21-16 44th Road, Long Island City, NY

| Sample       | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------------|-----------|----|----------|----|-----------|------------|------------------|
| JD54605-5MS  | 1U49702.D | 10 | 11/02/22 | ED | n/a       | n/a        | V1U2018          |
| JD54605-5MSD | 1U49704.D | 10 | 11/02/22 | ED | n/a       | n/a        | V1U2018          |
| JD54605-5    | 1U49700.D | 10 | 11/02/22 | ED | n/a       | n/a        | V1U2018          |

**The QC reported here applies to the following samples:**

**Method:** SW846 8260D

JD54605-2, JD54605-5, JD54605-6, JD54605-8, JD54605-9

| CAS No.   | Compound                   | JD54605-5<br>ug/l | Spike<br>Q<br>ug/l | MS<br>ug/l | MS<br>% | Spike<br>ug/l | MSD<br>ug/l | MSD<br>% | RPD | Limits<br>Rec/RPD |
|-----------|----------------------------|-------------------|--------------------|------------|---------|---------------|-------------|----------|-----|-------------------|
| 1634-04-4 | Methyl Tert Butyl Ether    | ND                | 500                | 479        | 96      | 500           | 467         | 93       | 3   | 66-124/12         |
| 108-10-1  | 4-Methyl-2-pentanone(MIBK) | ND                | 2000               | 2110       | 106     | 2000          | 1980        | 99       | 6   | 65-135/14         |
| 75-09-2   | Methylene chloride         | ND                | 500                | 456        | 91      | 500           | 444         | 89       | 3   | 66-125/14         |
| 100-42-5  | Styrene                    | ND                | 500                | 525        | 105     | 500           | 505         | 101      | 4   | 71-133/12         |
| 79-34-5   | 1,1,2,2-Tetrachloroethane  | ND                | 500                | 490        | 98      | 500           | 475         | 95       | 3   | 68-127/14         |
| 127-18-4  | Tetrachloroethene          | 1690              | 500                | 1970       | 56* b   | 500           | 1970        | 56* b    | 0   | 58-132/13         |
| 108-88-3  | Toluene                    | ND                | 500                | 482        | 96      | 500           | 479         | 96       | 1   | 46-139/12         |
| 87-61-6   | 1,2,3-Trichlorobenzene     | ND                | 500                | 452        | 90      | 500           | 464         | 93       | 3   | 57-136/17         |
| 120-82-1  | 1,2,4-Trichlorobenzene     | ND                | 500                | 454        | 91      | 500           | 465         | 93       | 2   | 61-137/16         |
| 71-55-6   | 1,1,1-Trichloroethane      | ND                | 500                | 469        | 94      | 500           | 462         | 92       | 2   | 67-132/13         |
| 79-00-5   | 1,1,2-Trichloroethane      | ND                | 500                | 517        | 103     | 500           | 497         | 99       | 4   | 75-120/12         |
| 79-01-6   | Trichloroethene            | 10.1              | 500                | 505        | 99      | 500           | 479         | 94       | 5   | 56-136/12         |
| 75-69-4   | Trichlorofluoromethane     | ND                | 500                | 576        | 115     | 500           | 539         | 108      | 7   | 61-145/16         |
| 75-01-4   | Vinyl chloride             | ND                | 500                | 503        | 101     | 500           | 512         | 102      | 2   | 41-156/16         |
|           | m,p-Xylene                 | ND                | 1000               | 1060       | 106     | 1000          | 1020        | 102      | 4   | 32-151/12         |
| 95-47-6   | o-Xylene                   | ND                | 500                | 500        | 100     | 500           | 490         | 98       | 2   | 50-139/12         |
| 1330-20-7 | Xylene (total)             | ND                | 1500               | 1560       | 104     | 1500          | 1520        | 101      | 3   | 38-147/12         |

| CAS No.    | Surrogate Recoveries  | MS   | MSD  | JD54605-5 | Limits  |
|------------|-----------------------|------|------|-----------|---------|
| 1868-53-7  | Dibromofluoromethane  | 91%  | 91%  | 102%      | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 108% | 104% | 109%      | 80-120% |
| 2037-26-5  | Toluene-D8            | 95%  | 97%  | 105%      | 80-120% |
| 460-00-4   | 4-Bromofluorobenzene  | 96%  | 98%  | 96%       | 82-114% |

(a) Outside in house control limits.

(b) Outside control limits due to high level in sample relative to spike amount.

\* = Outside of Control Limits.



## Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 2

Job Number: JD54605

Account: FLSNYYNY Fleming-Lee Shue, Inc.

Project: Info Tech High School, 21-16 44th Road, Long Island City, NY

| Sample                 | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|------------------------|-----------|----|----------|----|-----------|------------|------------------|
| JD54605-4MS            | 2U49703.D | 4  | 11/02/22 | ED | n/a       | n/a        | V2U2018          |
| JD54605-4MSD           | 2U49705.D | 4  | 11/02/22 | ED | n/a       | n/a        | V2U2018          |
| JD54605-4 <sup>a</sup> | 2U49699.D | 4  | 11/01/22 | ED | n/a       | n/a        | V2U2018          |

The QC reported here applies to the following samples:

Method: SW846 8260D

JD54605-1, JD54605-3, JD54605-4, JD54605-7, JD54605-9, JD54605-10

| CAS No.    | Compound                    | JD54605-4 | Spike | MS   | MS   | Spike | MSD  | MSD  | RPD | Limits    |
|------------|-----------------------------|-----------|-------|------|------|-------|------|------|-----|-----------|
|            |                             | ug/l      | Q     | ug/l | ug/l | %     | ug/l | ug/l |     | %         |
| 67-64-1    | Acetone                     | ND        | 800   | 624  | 78   | 800   | 602  | 75   | 4   | 22-134/19 |
| 71-43-2    | Benzene                     | ND        | 200   | 200  | 100  | 200   | 193  | 97   | 4   | 49-137/12 |
| 74-97-5    | Bromochloromethane          | ND        | 200   | 175  | 88   | 200   | 174  | 87   | 1   | 78-122/12 |
| 75-27-4    | Bromodichloromethane        | ND        | 200   | 202  | 101  | 200   | 195  | 98   | 4   | 76-121/12 |
| 75-25-2    | Bromoform                   | ND        | 200   | 210  | 105  | 200   | 202  | 101  | 4   | 70-133/13 |
| 74-83-9    | Bromomethane                | ND        | 200   | 269  | 135  | 200   | 253  | 127  | 6   | 27-164/38 |
| 78-93-3    | 2-Butanone (MEK)            | ND        | 800   | 737  | 92   | 800   | 728  | 91   | 1   | 52-137/17 |
| 75-15-0    | Carbon disulfide            | ND        | 200   | 185  | 93   | 200   | 182  | 91   | 2   | 54-136/16 |
| 56-23-5    | Carbon tetrachloride        | ND        | 200   | 179  | 90   | 200   | 179  | 90   | 0   | 70-132/13 |
| 108-90-7   | Chlorobenzene               | ND        | 200   | 206  | 103  | 200   | 195  | 98   | 5   | 68-123/12 |
| 75-00-3    | Chloroethane                | ND        | 200   | 232  | 116  | 200   | 215  | 108  | 8   | 48-152/17 |
| 67-66-3    | Chloroform                  | ND        | 200   | 189  | 95   | 200   | 183  | 92   | 3   | 68-120/13 |
| 74-87-3    | Chloromethane               | ND        | 200   | 187  | 94   | 200   | 182  | 91   | 3   | 35-156/18 |
| 110-82-7   | Cyclohexane                 | ND        | 200   | 203  | 102  | 200   | 206  | 103  | 1   | 53-146/14 |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | ND        | 200   | 188  | 94   | 200   | 178  | 89   | 5   | 63-134/16 |
| 124-48-1   | Dibromochloromethane        | ND        | 200   | 190  | 95   | 200   | 185  | 93   | 3   | 75-122/12 |
| 106-93-4   | 1,2-Dibromoethane           | ND        | 200   | 193  | 97   | 200   | 189  | 95   | 2   | 63-134/12 |
| 95-50-1    | 1,2-Dichlorobenzene         | ND        | 200   | 204  | 102  | 200   | 196  | 98   | 4   | 74-119/12 |
| 541-73-1   | 1,3-Dichlorobenzene         | ND        | 200   | 200  | 100  | 200   | 192  | 96   | 4   | 75-117/12 |
| 106-46-7   | 1,4-Dichlorobenzene         | ND        | 200   | 204  | 102  | 200   | 194  | 97   | 5   | 72-117/12 |
| 75-71-8    | Dichlorodifluoromethane     | ND        | 200   | 178  | 89   | 200   | 175  | 88   | 2   | 34-163/16 |
| 75-34-3    | 1,1-Dichloroethane          | ND        | 200   | 191  | 96   | 200   | 186  | 93   | 3   | 68-129/13 |
| 107-06-2   | 1,2-Dichloroethane          | ND        | 200   | 204  | 102  | 200   | 192  | 96   | 6   | 66-120/13 |
| 75-35-4    | 1,1-Dichloroethene          | ND        | 200   | 202  | 101  | 200   | 188  | 94   | 7   | 59-133/15 |
| 156-59-2   | cis-1,2-Dichloroethene      | 20.1      | 200   | 193  | 86   | 200   | 193  | 86   | 0   | 52-140/12 |
| 156-60-5   | trans-1,2-Dichloroethene    | ND        | 200   | 204  | 102  | 200   | 198  | 99   | 3   | 70-125/13 |
| 78-87-5    | 1,2-Dichloropropane         | ND        | 200   | 214  | 107  | 200   | 203  | 102  | 5   | 73-124/12 |
| 10061-01-5 | cis-1,3-Dichloropropene     | ND        | 200   | 195  | 98   | 200   | 189  | 95   | 3   | 75-125/13 |
| 10061-02-6 | trans-1,3-Dichloropropene   | ND        | 200   | 207  | 104  | 200   | 191  | 96   | 8   | 75-122/12 |
| 123-91-1   | 1,4-Dioxane                 | ND        | 5000  | 5520 | 110  | 5000  | 5170 | 103  | 7   | 57-145/40 |
| 100-41-4   | Ethylbenzene                | ND        | 200   | 203  | 102  | 200   | 192  | 96   | 6   | 37-144/12 |
| 76-13-1    | Freon 113                   | ND        | 200   | 198  | 99   | 200   | 188  | 94   | 5   | 61-142/14 |
| 591-78-6   | 2-Hexanone                  | ND        | 800   | 792  | 99   | 800   | 748  | 94   | 6   | 56-132/16 |
| 98-82-8    | Isopropylbenzene            | ND        | 200   | 218  | 109  | 200   | 209  | 105  | 4   | 71-126/13 |
| 79-20-9    | Methyl Acetate              | ND        | 200   | 173  | 87   | 200   | 172  | 86   | 1   | 51-139/18 |
| 108-87-2   | Methylcyclohexane           | ND        | 200   | 186  | 93   | 200   | 179  | 90   | 4   | 59-137/16 |

\* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary

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**Job Number:** JD54605

**Account:** FLSNYYNY Fleming-Lee Shue, Inc.

**Project:** Info Tech High School, 21-16 44th Road, Long Island City, NY

| Sample                 | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|------------------------|-----------|----|----------|----|-----------|------------|------------------|
| JD54605-4MS            | 2U49703.D | 4  | 11/02/22 | ED | n/a       | n/a        | V2U2018          |
| JD54605-4MSD           | 2U49705.D | 4  | 11/02/22 | ED | n/a       | n/a        | V2U2018          |
| JD54605-4 <sup>a</sup> | 2U49699.D | 4  | 11/01/22 | ED | n/a       | n/a        | V2U2018          |

The QC reported here applies to the following samples:

Method: SW846 8260D

JD54605-1, JD54605-3, JD54605-4, JD54605-7, JD54605-9, JD54605-10

| CAS No.   | Compound                   | JD54605-4<br>ug/l | Spike<br>Q<br>ug/l | MS<br>ug/l | MS<br>%           | Spike<br>ug/l | MSD<br>ug/l | MSD<br>%          | RPD | Limits<br>Rec/RPD |
|-----------|----------------------------|-------------------|--------------------|------------|-------------------|---------------|-------------|-------------------|-----|-------------------|
| 1634-04-4 | Methyl Tert Butyl Ether    | ND                | 200                | 183        | 92                | 200           | 185         | 93                | 1   | 66-124/12         |
| 108-10-1  | 4-Methyl-2-pentanone(MIBK) | ND                | 800                | 864        | 108               | 800           | 808         | 101               | 7   | 65-135/14         |
| 75-09-2   | Methylene chloride         | ND                | 200                | 171        | 86                | 200           | 177         | 89                | 3   | 66-125/14         |
| 100-42-5  | Styrene                    | ND                | 200                | 217        | 109               | 200           | 209         | 105               | 4   | 71-133/12         |
| 79-34-5   | 1,1,2,2-Tetrachloroethane  | ND                | 200                | 195        | 98                | 200           | 182         | 91                | 7   | 68-127/14         |
| 127-18-4  | Tetrachloroethene          | 1100              | E 200              | 1060       | -20* <sup>b</sup> | 200           | 1040        | -30* <sup>b</sup> | 2   | 58-132/13         |
| 108-88-3  | Toluene                    | ND                | 200                | 199        | 100               | 200           | 190         | 95                | 5   | 46-139/12         |
| 87-61-6   | 1,2,3-Trichlorobenzene     | ND                | 200                | 193        | 97                | 200           | 191         | 96                | 1   | 57-136/17         |
| 120-82-1  | 1,2,4-Trichlorobenzene     | ND                | 200                | 184        | 92                | 200           | 179         | 90                | 3   | 61-137/16         |
| 71-55-6   | 1,1,1-Trichloroethane      | ND                | 200                | 189        | 95                | 200           | 183         | 92                | 3   | 67-132/13         |
| 79-00-5   | 1,1,2-Trichloroethane      | ND                | 200                | 196        | 98                | 200           | 186         | 93                | 5   | 75-120/12         |
| 79-01-6   | Trichloroethene            | 114               | 200                | 293        | 90                | 200           | 281         | 84                | 4   | 56-136/12         |
| 75-69-4   | Trichlorofluoromethane     | ND                | 200                | 231        | 116               | 200           | 219         | 110               | 5   | 61-145/16         |
| 75-01-4   | Vinyl chloride             | ND                | 200                | 203        | 102               | 200           | 196         | 98                | 4   | 41-156/16         |
|           | m,p-Xylene                 | ND                | 400                | 445        | 111               | 400           | 419         | 105               | 6   | 32-151/12         |
| 95-47-6   | o-Xylene                   | ND                | 200                | 208        | 104               | 200           | 197         | 99                | 5   | 50-139/12         |
| 1330-20-7 | Xylene (total)             | ND                | 600                | 653        | 109               | 600           | 616         | 103               | 6   | 38-147/12         |

| CAS No.    | Surrogate Recoveries  | MS   | MSD  | JD54605-4 | Limits  |
|------------|-----------------------|------|------|-----------|---------|
| 1868-53-7  | Dibromofluoromethane  | 91%  | 92%  | 102%      | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 106% | 104% | 108%      | 80-120% |
| 2037-26-5  | Toluene-D8            | 94%  | 95%  | 105%      | 80-120% |
| 460-00-4   | 4-Bromofluorobenzene  | 96%  | 95%  | 96%       | 82-114% |

(a) Dilution required due to high concentration of target compound.

(b) Outside control limits due to high level in sample relative to spike amount.

\* = Outside of Control Limits.

## Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 2

Job Number: JD54605

Account: FLSNYYNY Fleming-Lee Shue, Inc.

Project: Info Tech High School, 21-16 44th Road, Long Island City, NY

| Sample                 | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|------------------------|-----------|----|----------|----|-----------|------------|------------------|
| JD54531-3MS            | 1K01251.D | 20 | 11/02/22 | TS | n/a       | n/a        | V1K38            |
| JD54531-3MSD           | 1K01253.D | 20 | 11/02/22 | TS | n/a       | n/a        | V1K38            |
| JD54531-3 <sup>a</sup> | 1K01235.D | 20 | 11/02/22 | TS | n/a       | n/a        | V1K38            |

The QC reported here applies to the following samples:

Method: SW846 8260D

JD54605-4, JD54605-11

| CAS No.    | Compound                    | JD54531-3<br>ug/l | Spike<br>Q | Spike<br>ug/l | MS<br>ug/l | MS<br>% | Spike<br>ug/l | MSD<br>ug/l | MSD<br>% | RPD | Limits<br>Rec/RPD |
|------------|-----------------------------|-------------------|------------|---------------|------------|---------|---------------|-------------|----------|-----|-------------------|
| 67-64-1    | Acetone                     | ND                |            | 4000          | 2990       | 75      | 4000          | 2980        | 75       | 0   | 22-134/19         |
| 71-43-2    | Benzene                     | ND                |            | 1000          | 883        | 88      | 1000          | 904         | 90       | 2   | 49-137/12         |
| 74-97-5    | Bromochloromethane          | ND                |            | 1000          | 927        | 93      | 1000          | 913         | 91       | 2   | 78-122/12         |
| 75-27-4    | Bromodichloromethane        | ND                |            | 1000          | 1030       | 103     | 1000          | 1040        | 104      | 1   | 76-121/12         |
| 75-25-2    | Bromoform                   | ND                |            | 1000          | 970        | 97      | 1000          | 1030        | 103      | 6   | 70-133/13         |
| 74-83-9    | Bromomethane                | 36.4              | JB         | 1000          | 779        | 74      | 1000          | 901         | 86       | 15  | 27-164/38         |
| 78-93-3    | 2-Butanone (MEK)            | ND                |            | 4000          | 3930       | 98      | 4000          | 3930        | 98       | 0   | 52-137/17         |
| 75-15-0    | Carbon disulfide            | ND                |            | 1000          | 818        | 82      | 1000          | 850         | 85       | 4   | 54-136/16         |
| 56-23-5    | Carbon tetrachloride        | ND                |            | 1000          | 862        | 86      | 1000          | 854         | 85       | 1   | 70-132/13         |
| 108-90-7   | Chlorobenzene               | ND                |            | 1000          | 909        | 91      | 1000          | 948         | 95       | 4   | 68-123/12         |
| 75-00-3    | Chloroethane                | ND                |            | 1000          | 834        | 83      | 1000          | 845         | 85       | 1   | 48-152/17         |
| 67-66-3    | Chloroform                  | ND                |            | 1000          | 1000       | 100     | 1000          | 968         | 97       | 3   | 68-120/13         |
| 74-87-3    | Chloromethane               | ND                |            | 1000          | 850        | 85      | 1000          | 892         | 89       | 5   | 35-156/18         |
| 110-82-7   | Cyclohexane                 | ND                |            | 1000          | 945        | 95      | 1000          | 940         | 94       | 1   | 53-146/14         |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | ND                |            | 1000          | 1030       | 103     | 1000          | 1050        | 105      | 2   | 63-134/16         |
| 124-48-1   | Dibromochloromethane        | ND                |            | 1000          | 927        | 93      | 1000          | 962         | 96       | 4   | 75-122/12         |
| 106-93-4   | 1,2-Dibromoethane           | ND                |            | 1000          | 964        | 96      | 1000          | 1010        | 101      | 5   | 63-134/12         |
| 95-50-1    | 1,2-Dichlorobenzene         | ND                |            | 1000          | 908        | 91      | 1000          | 939         | 94       | 3   | 74-119/12         |
| 541-73-1   | 1,3-Dichlorobenzene         | ND                |            | 1000          | 908        | 91      | 1000          | 949         | 95       | 4   | 75-117/12         |
| 106-46-7   | 1,4-Dichlorobenzene         | ND                |            | 1000          | 918        | 92      | 1000          | 949         | 95       | 3   | 72-117/12         |
| 75-71-8    | Dichlorodifluoromethane     | ND                |            | 1000          | 957        | 96      | 1000          | 947         | 95       | 1   | 34-163/16         |
| 75-34-3    | 1,1-Dichloroethane          | ND                |            | 1000          | 983        | 98      | 1000          | 935         | 94       | 5   | 68-129/13         |
| 107-06-2   | 1,2-Dichloroethane          | ND                |            | 1000          | 971        | 97      | 1000          | 981         | 98       | 1   | 66-120/13         |
| 75-35-4    | 1,1-Dichloroethene          | ND                |            | 1000          | 886        | 89      | 1000          | 861         | 86       | 3   | 59-133/15         |
| 156-59-2   | cis-1,2-Dichloroethene      | ND                |            | 1000          | 964        | 96      | 1000          | 938         | 94       | 3   | 52-140/12         |
| 156-60-5   | trans-1,2-Dichloroethene    | ND                |            | 1000          | 833        | 83      | 1000          | 817         | 82       | 2   | 70-125/13         |
| 78-87-5    | 1,2-Dichloropropane         | ND                |            | 1000          | 973        | 97      | 1000          | 971         | 97       | 0   | 73-124/12         |
| 10061-01-5 | cis-1,3-Dichloropropene     | ND                |            | 1000          | 1020       | 102     | 1000          | 1050        | 105      | 3   | 75-125/13         |
| 10061-02-6 | trans-1,3-Dichloropropene   | ND                |            | 1000          | 1090       | 109     | 1000          | 1130        | 113      | 4   | 75-122/12         |
| 123-91-1   | 1,4-Dioxane                 | ND                |            | 25000         | 23300      | 93      | 25000         | 25600       | 102      | 9   | 57-145/40         |
| 100-41-4   | Ethylbenzene                | ND                |            | 1000          | 905        | 91      | 1000          | 930         | 93       | 3   | 37-144/12         |
| 76-13-1    | Freon 113                   | ND                |            | 1000          | 835        | 84      | 1000          | 844         | 84       | 1   | 61-142/14         |
| 591-78-6   | 2-Hexanone                  | ND                |            | 4000          | 4110       | 103     | 4000          | 4160        | 104      | 1   | 56-132/16         |
| 98-82-8    | Isopropylbenzene            | ND                |            | 1000          | 908        | 91      | 1000          | 942         | 94       | 4   | 71-126/13         |
| 79-20-9    | Methyl Acetate              | ND                |            | 1000          | 780        | 78      | 1000          | 764         | 76       | 2   | 51-139/18         |
| 108-87-2   | Methylcyclohexane           | ND                |            | 1000          | 820        | 82      | 1000          | 831         | 83       | 1   | 59-137/16         |

\* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary

Page 2 of 2

**Job Number:** JD54605

**Account:** FLSNYYNY Fleming-Lee Shue, Inc.

**Project:** Info Tech High School, 21-16 44th Road, Long Island City, NY

| Sample                 | File ID   | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|------------------------|-----------|----|----------|----|-----------|------------|------------------|
| JD54531-3MS            | 1K01251.D | 20 | 11/02/22 | TS | n/a       | n/a        | V1K38            |
| JD54531-3MSD           | 1K01253.D | 20 | 11/02/22 | TS | n/a       | n/a        | V1K38            |
| JD54531-3 <sup>a</sup> | 1K01235.D | 20 | 11/02/22 | TS | n/a       | n/a        | V1K38            |

The QC reported here applies to the following samples:

Method: SW846 8260D

JD54605-4, JD54605-11

| CAS No.   | Compound                   | JD54531-3<br>ug/l | Spike<br>Q | MS<br>ug/l | MS<br>% | Spike<br>ug/l     | MSD<br>ug/l | MSD<br>% | RPD               | Limits<br>Rec/RPD |           |
|-----------|----------------------------|-------------------|------------|------------|---------|-------------------|-------------|----------|-------------------|-------------------|-----------|
| 1634-04-4 | Methyl Tert Butyl Ether    | 7040              | E          | 1000       | 8390    | 135* <sup>b</sup> | 1000        | 8320     | 128* <sup>b</sup> | 1                 | 66-124/12 |
| 108-10-1  | 4-Methyl-2-pentanone(MIBK) | ND                |            | 4000       | 4120    | 103               | 4000        | 4120     | 103               | 0                 | 65-135/14 |
| 75-09-2   | Methylene chloride         | ND                |            | 1000       | 981     | 98                | 1000        | 963      | 96                | 2                 | 66-125/14 |
| 100-42-5  | Styrene                    | ND                |            | 1000       | 950     | 95                | 1000        | 991      | 99                | 4                 | 71-133/12 |
| 79-34-5   | 1,1,2,2-Tetrachloroethane  | ND                |            | 1000       | 1140    | 114               | 1000        | 1170     | 117               | 3                 | 68-127/14 |
| 127-18-4  | Tetrachloroethene          | ND                |            | 1000       | 829     | 83                | 1000        | 875      | 88                | 5                 | 58-132/13 |
| 108-88-3  | Toluene                    | ND                |            | 1000       | 904     | 90                | 1000        | 929      | 93                | 3                 | 46-139/12 |
| 87-61-6   | 1,2,3-Trichlorobenzene     | ND                |            | 1000       | 966     | 97                | 1000        | 1010     | 101               | 4                 | 57-136/17 |
| 120-82-1  | 1,2,4-Trichlorobenzene     | ND                |            | 1000       | 957     | 96                | 1000        | 1010     | 101               | 5                 | 61-137/16 |
| 71-55-6   | 1,1,1-Trichloroethane      | ND                |            | 1000       | 1010    | 101               | 1000        | 1010     | 101               | 0                 | 67-132/13 |
| 79-00-5   | 1,1,2-Trichloroethane      | ND                |            | 1000       | 1010    | 101               | 1000        | 1030     | 103               | 2                 | 75-120/12 |
| 79-01-6   | Trichloroethene            | ND                |            | 1000       | 816     | 82                | 1000        | 844      | 84                | 3                 | 56-136/12 |
| 75-69-4   | Trichlorofluoromethane     | ND                |            | 1000       | 923     | 92                | 1000        | 932      | 93                | 1                 | 61-145/16 |
| 75-01-4   | Vinyl chloride             | ND                |            | 1000       | 904     | 90                | 1000        | 891      | 89                | 1                 | 41-156/16 |
|           | m,p-Xylene                 | ND                |            | 2000       | 1810    | 91                | 2000        | 1860     | 93                | 3                 | 32-151/12 |
| 95-47-6   | o-Xylene                   | ND                |            | 1000       | 909     | 91                | 1000        | 959      | 96                | 5                 | 50-139/12 |
| 1330-20-7 | Xylene (total)             | ND                |            | 3000       | 2720    | 91                | 3000        | 2810     | 94                | 3                 | 38-147/12 |

| CAS No.    | Surrogate Recoveries  | MS                 | MSD  | JD54531-3 | Limits  |
|------------|-----------------------|--------------------|------|-----------|---------|
| 1868-53-7  | Dibromofluoromethane  | 106%               | 102% | 102%      | 80-120% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 108%               | 110% | 105%      | 80-120% |
| 2037-26-5  | Toluene-D8            | 105%               | 105% | 104%      | 80-120% |
| 460-00-4   | 4-Bromofluorobenzene  | 115%* <sup>c</sup> | 114% | 114%      | 82-114% |

(a) Dilution required due to high concentration of target compound.

(b) Outside control limits due to high level in sample relative to spike amount.

(c) Outside of in house control limits, but within reasonable method recovery limits.

\* = Outside of Control Limits.

**Instrument Performance Check (BFB)**

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**Job Number:** JD54605**Account:** FLSNYYNY Fleming-Lee Shue, Inc.**Project:** Info Tech High School, 21-16 44th Road, Long Island City, NY**Sample:** V1K11-BFB**Injection Date:** 10/16/22**Lab File ID:** 1K00254.D**Injection Time:** 16:49**Instrument ID:** GCMS1K

| m/e | Ion Abundance Criteria             | Raw Abundance | % Relative Abundance     | Pass/Fail |
|-----|------------------------------------|---------------|--------------------------|-----------|
| 50  | 15.0 - 40.0% of mass 95            | 36947         | 28.9                     | Pass      |
| 75  | 30.0 - 60.0% of mass 95            | 70421         | 55.0                     | Pass      |
| 95  | Base peak, 100% relative abundance | 127949        | 100.0                    | Pass      |
| 96  | 5.0 - 9.0% of mass 95              | 8411          | 6.57                     | Pass      |
| 173 | Less than 2.0% of mass 174         | 497           | 0.39 (0.61) <sup>a</sup> | Pass      |
| 174 | 50.0 - 120.0% of mass 95           | 81432         | 63.6                     | Pass      |
| 175 | 5.0 - 9.0% of mass 174             | 5860          | 4.58 (7.20) <sup>a</sup> | Pass      |
| 176 | 95.0 - 101.0% of mass 174          | 79621         | 62.2 (97.8) <sup>a</sup> | Pass      |
| 177 | 5.0 - 9.0% of mass 176             | 5193          | 4.06 (6.52) <sup>b</sup> | Pass      |

(a) Value is % of mass 174

(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID            |
|---------------|-------------|---------------|---------------|--------------|-----------------------------|
| V1K11-IC11    | 1K00256.D   | 10/16/22      | 18:07         | 01:18        | Initial cal 0.2             |
| V1K11-IC11    | 1K00258.D   | 10/16/22      | 18:40         | 01:51        | Initial cal 0.5             |
| V1K11-IC11    | 1K00260.D   | 10/16/22      | 19:12         | 02:23        | Initial cal 1               |
| V1K11-IC11    | 1K00262.D   | 10/16/22      | 19:45         | 02:56        | Initial cal 2               |
| V1K11-IC11    | 1K00264.D   | 10/16/22      | 20:18         | 03:29        | Initial cal 4               |
| V1K11-IC11    | 1K00266.D   | 10/16/22      | 20:50         | 04:01        | Initial cal 8               |
| V1K11-IC11    | 1K00268.D   | 10/16/22      | 21:23         | 04:34        | Initial cal 20              |
| V1K11-ICC11   | 1K00270.D   | 10/16/22      | 21:55         | 05:06        | Initial cal 50              |
| V1K11-IC11    | 1K00272.D   | 10/16/22      | 22:28         | 05:39        | Initial cal 100             |
| V1K11-IC11    | 1K00274.D   | 10/16/22      | 23:00         | 06:11        | Initial cal 200             |
| V1K11-ICV11   | 1K00280.D   | 10/17/22      | 00:38         | 07:49        | Initial cal verification 50 |
| V1K11-ICV11   | 1K00282.D   | 10/17/22      | 01:10         | 08:21        | Initial cal verification 50 |

## Instrument Performance Check (BFB)

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Job Number: JD54605

Account: FLSNYYNY Fleming-Lee Shue, Inc.

Project: Info Tech High School, 21-16 44th Road, Long Island City, NY

Sample: V1K38-BFB

Injection Date: 11/02/22

Lab File ID: 1K01224.D

Injection Time: 08:49

Instrument ID: GCMS1K

| m/e | Ion Abundance Criteria             | Raw Abundance | % Relative Abundance     | Pass/Fail |
|-----|------------------------------------|---------------|--------------------------|-----------|
| 50  | 15.0 - 40.0% of mass 95            | 45283         | 29.0                     | Pass      |
| 75  | 30.0 - 60.0% of mass 95            | 89720         | 57.5                     | Pass      |
| 95  | Base peak, 100% relative abundance | 155947        | 100.0                    | Pass      |
| 96  | 5.0 - 9.0% of mass 95              | 10022         | 6.43                     | Pass      |
| 173 | Less than 2.0% of mass 174         | 664           | 0.43 (0.68) <sup>a</sup> | Pass      |
| 174 | 50.0 - 120.0% of mass 95           | 97171         | 62.3                     | Pass      |
| 175 | 5.0 - 9.0% of mass 174             | 7283          | 4.67 (7.50) <sup>a</sup> | Pass      |
| 176 | 95.0 - 101.0% of mass 174          | 94296         | 60.5 (97.0) <sup>a</sup> | Pass      |
| 177 | 5.0 - 9.0% of mass 176             | 5983          | 3.84 (6.34) <sup>b</sup> | Pass      |

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID                            |
|---------------|-------------|---------------|---------------|--------------|---------------------------------------------|
| V1K38-CC11    | 1K01224.D   | 11/02/22      | 08:49         | 00:00        | Continuing cal 20                           |
| V1K38-BS      | 1K01228.D   | 11/02/22      | 10:08         | 01:19        | Blank Spike                                 |
| V1K38-MB      | 1K01232.D   | 11/02/22      | 11:13         | 02:24        | Method Blank                                |
| ZZZZZZ        | 1K01233.D   | 11/02/22      | 11:36         | 02:47        | (unrelated sample)                          |
| JD54531-3     | 1K01235.D   | 11/02/22      | 12:08         | 03:19        | (used for QC only; not part of job JD54605) |
| JD54605-11    | 1K01237.D   | 11/02/22      | 12:41         | 03:52        | TRIP BLANK                                  |
| JD54605-4     | 1K01239.D   | 11/02/22      | 13:13         | 04:24        | BRMW-2                                      |
| ZZZZZZ        | 1K01241.D   | 11/02/22      | 13:46         | 04:57        | (unrelated sample)                          |
| ZZZZZZ        | 1K01243.D   | 11/02/22      | 14:18         | 05:29        | (unrelated sample)                          |
| ZZZZZZ        | 1K01245.D   | 11/02/22      | 14:51         | 06:02        | (unrelated sample)                          |
| ZZZZZZ        | 1K01247.D   | 11/02/22      | 15:24         | 06:35        | (unrelated sample)                          |
| ZZZZZZ        | 1K01249.D   | 11/02/22      | 15:56         | 07:07        | (unrelated sample)                          |
| JD54531-3MS   | 1K01251.D   | 11/02/22      | 16:29         | 07:40        | Matrix Spike                                |
| JD54531-3MSD  | 1K01253.D   | 11/02/22      | 17:02         | 08:13        | Matrix Spike Duplicate                      |
| ZZZZZZ        | 1K01255.D   | 11/02/22      | 17:34         | 08:45        | (unrelated sample)                          |
| ZZZZZZ        | 1K01257.D   | 11/02/22      | 18:07         | 09:18        | (unrelated sample)                          |
| ZZZZZZ        | 1K01259.D   | 11/02/22      | 18:40         | 09:51        | (unrelated sample)                          |
| ZZZZZZ        | 1K01261.D   | 11/02/22      | 19:13         | 10:24        | (unrelated sample)                          |
| ZZZZZZ        | 1K01263.D   | 11/02/22      | 19:45         | 10:56        | (unrelated sample)                          |
| ZZZZZZ        | 1K01265.D   | 11/02/22      | 20:18         | 11:29        | (unrelated sample)                          |

**Instrument Performance Check (BFB)**

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**Job Number:** JD54605**Account:** FLSNYYNY Fleming-Lee Shue, Inc.**Project:** Info Tech High School, 21-16 44th Road, Long Island City, NY**Sample:** V1U2015-BFB**Injection Date:** 10/28/22**Lab File ID:** 1U49554.D**Injection Time:** 17:04**Instrument ID:** GCMS1U

| m/e | Ion Abundance Criteria             | Raw Abundance | % Relative Abundance     | Pass/Fail |
|-----|------------------------------------|---------------|--------------------------|-----------|
| 50  | 15.0 - 40.0% of mass 95            | 31576         | 16.3                     | Pass      |
| 75  | 30.0 - 60.0% of mass 95            | 100053        | 51.7                     | Pass      |
| 95  | Base peak, 100% relative abundance | 193451        | 100.0                    | Pass      |
| 96  | 5.0 - 9.0% of mass 95              | 12856         | 6.65                     | Pass      |
| 173 | Less than 2.0% of mass 174         | 2503          | 1.29 (1.37) <sup>a</sup> | Pass      |
| 174 | 50.0 - 120.0% of mass 95           | 183339        | 94.8                     | Pass      |
| 175 | 5.0 - 9.0% of mass 174             | 14079         | 7.28 (7.68) <sup>a</sup> | Pass      |
| 176 | 95.0 - 101.0% of mass 174          | 179093        | 92.6 (97.7) <sup>a</sup> | Pass      |
| 177 | 5.0 - 9.0% of mass 176             | 11382         | 5.88 (6.36) <sup>b</sup> | Pass      |

(a) Value is % of mass 174

(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

| Lab Sample ID   | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID            |
|-----------------|-------------|---------------|---------------|--------------|-----------------------------|
| V1U2015-IC2015  | 1U49556.D   | 10/28/22      | 17:41         | 00:37        | Initial cal 0.2             |
| V1U2015-IC2015  | 1U49558.D   | 10/28/22      | 18:10         | 01:06        | Initial cal 0.5             |
| V1U2015-IC2015  | 1U49560.D   | 10/28/22      | 18:39         | 01:35        | Initial cal 1               |
| V1U2015-IC2015  | 1U49562.D   | 10/28/22      | 19:08         | 02:04        | Initial cal 2               |
| V1U2015-IC2015  | 1U49564.D   | 10/28/22      | 19:37         | 02:33        | Initial cal 4               |
| V1U2015-IC2015  | 1U49566.D   | 10/28/22      | 20:06         | 03:02        | Initial cal 8               |
| V1U2015-IC2015  | 1U49568.D   | 10/28/22      | 20:35         | 03:31        | Initial cal 20              |
| V1U2015-ICC2015 | 1U49570.D   | 10/28/22      | 21:05         | 04:01        | Initial cal 50              |
| V1U2015-IC2015  | 1U49572.D   | 10/28/22      | 21:34         | 04:30        | Initial cal 100             |
| V1U2015-IC2015  | 1U49574.D   | 10/28/22      | 22:03         | 04:59        | Initial cal 200             |
| V1U2015-ICV2015 | 1U49580.D   | 10/28/22      | 23:30         | 06:26        | Initial cal verification 50 |
| V1U2015-ICV2015 | 1U49582.D   | 10/28/22      | 23:59         | 06:55        | Initial cal verification 50 |

**Instrument Performance Check (BFB)**

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**Job Number:** JD54605**Account:** FLSNYYY Fleming-Lee Shue, Inc.**Project:** Info Tech High School, 21-16 44th Road, Long Island City, NY**Sample:** V1U2018-BFB**Injection Date:** 11/01/22**Lab File ID:** 1U49688.D**Injection Time:** 21:11**Instrument ID:** GCMS1U

| m/e | Ion Abundance Criteria             | Raw Abundance | % Relative Abundance     | Pass/Fail |
|-----|------------------------------------|---------------|--------------------------|-----------|
| 50  | 15.0 - 40.0% of mass 95            | 26968         | 15.7                     | Pass      |
| 75  | 30.0 - 60.0% of mass 95            | 88800         | 51.6                     | Pass      |
| 95  | Base peak, 100% relative abundance | 172011        | 100.0                    | Pass      |
| 96  | 5.0 - 9.0% of mass 95              | 11193         | 6.51                     | Pass      |
| 173 | Less than 2.0% of mass 174         | 2228          | 1.30 (1.35) <sup>a</sup> | Pass      |
| 174 | 50.0 - 120.0% of mass 95           | 165184        | 96.0                     | Pass      |
| 175 | 5.0 - 9.0% of mass 174             | 12550         | 7.30 (7.60) <sup>a</sup> | Pass      |
| 176 | 95.0 - 101.0% of mass 174          | 159680        | 92.8 (96.7) <sup>a</sup> | Pass      |
| 177 | 5.0 - 9.0% of mass 176             | 10462         | 6.08 (6.55) <sup>b</sup> | Pass      |

(a) Value is % of mass 174

(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

| Lab Sample ID  | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID       |
|----------------|-------------|---------------|---------------|--------------|------------------------|
| V1U2018-CC2015 | 1U49688.D   | 11/01/22      | 21:11         | 00:00        | Continuing cal 50      |
| V1U2018-BS     | 1U49692.D   | 11/01/22      | 22:09         | 00:58        | Blank Spike            |
| V1U2018-MB     | 1U49696.D   | 11/01/22      | 23:07         | 01:56        | Method Blank           |
| JD54605-5      | 1U49700.D   | 11/02/22      | 00:05         | 02:54        | MW-6                   |
| JD54605-5MS    | 1U49702.D   | 11/02/22      | 00:35         | 03:24        | Matrix Spike           |
| JD54605-5MSD   | 1U49704.D   | 11/02/22      | 01:04         | 03:53        | Matrix Spike Duplicate |
| JD54605-9      | 1U49706.D   | 11/02/22      | 01:33         | 04:22        | BRMW-3                 |
| ZZZZZZ         | 1U49716.D   | 11/02/22      | 03:58         | 06:47        | (unrelated sample)     |
| ZZZZZZ         | 1U49718.D   | 11/02/22      | 04:27         | 07:16        | (unrelated sample)     |
| JD54605-2      | 1U49722.D   | 11/02/22      | 05:25         | 08:14        | BRMW-1                 |
| JD54605-6      | 1U49724.D   | 11/02/22      | 05:54         | 08:43        | RW-1                   |
| JD54605-8      | 1U49726.D   | 11/02/22      | 06:23         | 09:12        | MW-7 DUP               |
| ZZZZZZ         | 1U49730.D   | 11/02/22      | 07:21         | 10:10        | (unrelated sample)     |



**Instrument Performance Check (BFB)**

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**Job Number:** JD54605**Account:** FLSNYYNY Fleming-Lee Shue, Inc.**Project:** Info Tech High School, 21-16 44th Road, Long Island City, NY**Sample:** V2U2015-BFB**Injection Date:** 10/28/22**Lab File ID:** 2U49555.D**Injection Time:** 17:19**Instrument ID:** GCMS2U

| m/e | Ion Abundance Criteria             | Raw Abundance | % Relative Abundance     | Pass/Fail |
|-----|------------------------------------|---------------|--------------------------|-----------|
| 50  | 15.0 - 40.0% of mass 95            | 30107         | 16.6                     | Pass      |
| 75  | 30.0 - 60.0% of mass 95            | 94680         | 52.1                     | Pass      |
| 95  | Base peak, 100% relative abundance | 181739        | 100.0                    | Pass      |
| 96  | 5.0 - 9.0% of mass 95              | 11835         | 6.51                     | Pass      |
| 173 | Less than 2.0% of mass 174         | 2289          | 1.26 (1.33) <sup>a</sup> | Pass      |
| 174 | 50.0 - 120.0% of mass 95           | 172565        | 95.0                     | Pass      |
| 175 | 5.0 - 9.0% of mass 174             | 13674         | 7.52 (7.92) <sup>a</sup> | Pass      |
| 176 | 95.0 - 101.0% of mass 174          | 167744        | 92.3 (97.2) <sup>a</sup> | Pass      |
| 177 | 5.0 - 9.0% of mass 176             | 10992         | 6.05 (6.55) <sup>b</sup> | Pass      |

(a) Value is % of mass 174

(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

| Lab Sample ID   | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID            |
|-----------------|-------------|---------------|---------------|--------------|-----------------------------|
| V2U2015-IC2015  | 2U49557.D   | 10/28/22      | 17:55         | 00:36        | Initial cal 0.2             |
| V2U2015-IC2015  | 2U49559.D   | 10/28/22      | 18:25         | 01:06        | Initial cal 0.5             |
| V2U2015-IC2015  | 2U49561.D   | 10/28/22      | 18:54         | 01:35        | Initial cal 1               |
| V2U2015-IC2015  | 2U49563.D   | 10/28/22      | 19:23         | 02:04        | Initial cal 2               |
| V2U2015-IC2015  | 2U49565.D   | 10/28/22      | 19:52         | 02:33        | Initial cal 4               |
| V2U2015-IC2015  | 2U49567.D   | 10/28/22      | 20:21         | 03:02        | Initial cal 8               |
| V2U2015-IC2015  | 2U49569.D   | 10/28/22      | 20:50         | 03:31        | Initial cal 20              |
| V2U2015-ICC2015 | 2U49571.D   | 10/28/22      | 21:19         | 04:00        | Initial cal 50              |
| V2U2015-IC2015  | 2U49573.D   | 10/28/22      | 21:48         | 04:29        | Initial cal 100             |
| V2U2015-IC2015  | 2U49575.D   | 10/28/22      | 22:17         | 04:58        | Initial cal 200             |
| V2U2015-ICV2015 | 2U49581.D   | 10/28/22      | 23:44         | 06:25        | Initial cal verification 50 |
| V2U2015-ICV2015 | 2U49583.D   | 10/29/22      | 00:13         | 06:54        | Initial cal verification 50 |

## Instrument Performance Check (BFB)

Job Number: JD54605

Account: FLSNYYY Fleming-Lee Shue, Inc.

Project: Info Tech High School, 21-16 44th Road, Long Island City, NY

Sample: V2U2018-BFB

Injection Date: 11/01/22

Lab File ID: 2U49689.D

Injection Time: 21:25

Instrument ID: GCMS2U

| m/e | Ion Abundance Criteria             | Raw Abundance | % Relative Abundance     | Pass/Fail |
|-----|------------------------------------|---------------|--------------------------|-----------|
| 50  | 15.0 - 40.0% of mass 95            | 28853         | 16.0                     | Pass      |
| 75  | 30.0 - 60.0% of mass 95            | 91627         | 50.9                     | Pass      |
| 95  | Base peak, 100% relative abundance | 179925        | 100.0                    | Pass      |
| 96  | 5.0 - 9.0% of mass 95              | 11883         | 6.60                     | Pass      |
| 173 | Less than 2.0% of mass 174         | 2060          | 1.14 (1.17) <sup>a</sup> | Pass      |
| 174 | 50.0 - 120.0% of mass 95           | 175403        | 97.5                     | Pass      |
| 175 | 5.0 - 9.0% of mass 174             | 13634         | 7.58 (7.77) <sup>a</sup> | Pass      |
| 176 | 95.0 - 101.0% of mass 174          | 171285        | 95.2 (97.7) <sup>a</sup> | Pass      |
| 177 | 5.0 - 9.0% of mass 176             | 10931         | 6.08 (6.38) <sup>b</sup> | Pass      |

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

| Lab Sample ID  | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID       |
|----------------|-------------|---------------|---------------|--------------|------------------------|
| V2U2018-CC2015 | 2U49689.D   | 11/01/22      | 21:25         | 00:00        | Continuing cal 50      |
| V2U2018-BS     | 2U49693.D   | 11/01/22      | 22:24         | 00:59        | Blank Spike            |
| V2U2018-MB     | 2U49695.D   | 11/01/22      | 22:53         | 01:28        | Method Blank           |
| JD54605-10     | 2U49697.D   | 11/01/22      | 23:22         | 01:57        | FIELD BLANK            |
| JD54605-4      | 2U49699.D   | 11/01/22      | 23:51         | 02:26        | BRMW-2                 |
| JD54605-9      | 2U49701.D   | 11/02/22      | 00:20         | 02:55        | BRMW-3                 |
| JD54605-4MS    | 2U49703.D   | 11/02/22      | 00:49         | 03:24        | Matrix Spike           |
| JD54605-4MSD   | 2U49705.D   | 11/02/22      | 01:18         | 03:53        | Matrix Spike Duplicate |
| ZZZZZZ         | 2U49707.D   | 11/02/22      | 01:47         | 04:22        | (unrelated sample)     |
| ZZZZZZ         | 2U49709.D   | 11/02/22      | 02:16         | 04:51        | (unrelated sample)     |
| ZZZZZZ         | 2U49711.D   | 11/02/22      | 02:45         | 05:20        | (unrelated sample)     |
| ZZZZZZ         | 2U49713.D   | 11/02/22      | 03:15         | 05:50        | (unrelated sample)     |
| ZZZZZZ         | 2U49715.D   | 11/02/22      | 03:44         | 06:19        | (unrelated sample)     |
| ZZZZZZ         | 2U49717.D   | 11/02/22      | 04:13         | 06:48        | (unrelated sample)     |
| ZZZZZZ         | 2U49719.D   | 11/02/22      | 04:42         | 07:17        | (unrelated sample)     |
| JD54605-1      | 2U49721.D   | 11/02/22      | 05:11         | 07:46        | MW-9                   |
| JD54605-3      | 2U49723.D   | 11/02/22      | 05:40         | 08:15        | MW-8                   |
| JD54605-7      | 2U49725.D   | 11/02/22      | 06:09         | 08:44        | MW-7                   |
| ZZZZZZ         | 2U49727.D   | 11/02/22      | 06:38         | 09:13        | (unrelated sample)     |
| ZZZZZZ         | 2U49729.D   | 11/02/22      | 07:07         | 09:42        | (unrelated sample)     |
| ZZZZZZ         | 2U49731.D   | 11/02/22      | 07:36         | 10:11        | (unrelated sample)     |

# Internal Standard Area Summary

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**Job Number:** JD54605

**Account:** FLSNYYY Fleming-Lee Shue, Inc.

**Project:** Info Tech High School, 21-16 44th Road, Long Island City, NY

**Check Std:** V1K38-CC11

**Injection Date:** 11/02/22

**Lab File ID:** 1K01224.D

**Injection Time:** 08:49

**Instrument ID:** GCMS1K

**Method:** SW846 8260D

|                          | IS 1<br>AREA | RT   | IS 2<br>AREA | RT   | IS 3<br>AREA | RT   | IS 4<br>AREA | RT   | IS 5<br>AREA | RT   |
|--------------------------|--------------|------|--------------|------|--------------|------|--------------|------|--------------|------|
| Check Std                | 468973       | 2.25 | 299002       | 3.21 | 501228       | 3.51 | 437198       | 5.33 | 180205       | 7.04 |
| Upper Limit <sup>a</sup> | 937946       | 2.75 | 598004       | 3.71 | 1002456      | 4.01 | 874396       | 5.83 | 360410       | 7.54 |
| Lower Limit <sup>b</sup> | 234487       | 1.75 | 149501       | 2.71 | 250614       | 3.01 | 218599       | 4.83 | 90103        | 6.54 |

| Lab<br>Sample ID | IS 1<br>AREA | RT   | IS 2<br>AREA | RT   | IS 3<br>AREA | RT   | IS 4<br>AREA | RT   | IS 5<br>AREA | RT   |
|------------------|--------------|------|--------------|------|--------------|------|--------------|------|--------------|------|
| V1K38-BS         | 438349       | 2.25 | 288974       | 3.21 | 491837       | 3.51 | 428657       | 5.32 | 183004       | 7.04 |
| V1K38-MB         | 436315       | 2.25 | 282047       | 3.21 | 473568       | 3.52 | 414758       | 5.32 | 172381       | 7.04 |
| ZZZZZZ           | 448647       | 2.25 | 302466       | 3.21 | 505036       | 3.51 | 434526       | 5.32 | 178120       | 7.04 |
| JD54531-3        | 426229       | 2.25 | 280564       | 3.21 | 472295       | 3.51 | 407508       | 5.33 | 169213       | 7.04 |
| JD54605-11       | 411806       | 2.25 | 292329       | 3.21 | 483059       | 3.51 | 413582       | 5.33 | 172685       | 7.04 |
| JD54605-4        | 422856       | 2.25 | 301571       | 3.21 | 495884       | 3.52 | 431020       | 5.32 | 180787       | 7.04 |
| ZZZZZZ           | 481431       | 2.25 | 296832       | 3.21 | 502420       | 3.51 | 442603       | 5.33 | 187085       | 7.04 |
| ZZZZZZ           | 439484       | 2.25 | 272256       | 3.21 | 456382       | 3.52 | 396435       | 5.32 | 166851       | 7.04 |
| ZZZZZZ           | 482736       | 2.25 | 295325       | 3.21 | 489729       | 3.51 | 421511       | 5.33 | 179390       | 7.04 |
| ZZZZZZ           | 433259       | 2.25 | 266158       | 3.21 | 447771       | 3.52 | 391464       | 5.32 | 167137       | 7.04 |
| ZZZZZZ           | 432364       | 2.25 | 266986       | 3.21 | 452148       | 3.51 | 399277       | 5.33 | 166172       | 7.04 |
| JD54531-3MS      | 470324       | 2.26 | 262646       | 3.21 | 455302       | 3.52 | 400838       | 5.33 | 168823       | 7.04 |
| JD54531-3MSD     | 461617       | 2.25 | 281167       | 3.21 | 474004       | 3.51 | 413478       | 5.33 | 175460       | 7.04 |
| ZZZZZZ           | 414417       | 2.25 | 274623       | 3.21 | 458651       | 3.51 | 400086       | 5.33 | 166951       | 7.04 |
| ZZZZZZ           | 413646       | 2.25 | 271201       | 3.21 | 450540       | 3.51 | 397182       | 5.33 | 168636       | 7.04 |
| ZZZZZZ           | 405993       | 2.25 | 263826       | 3.21 | 445734       | 3.51 | 387833       | 5.33 | 160017       | 7.04 |
| ZZZZZZ           | 425434       | 2.25 | 275832       | 3.21 | 456438       | 3.51 | 397182       | 5.33 | 165845       | 7.04 |
| ZZZZZZ           | 403339       | 2.25 | 280839       | 3.21 | 462307       | 3.51 | 403905       | 5.33 | 170047       | 7.04 |
| ZZZZZZ           | 434419       | 2.25 | 278193       | 3.21 | 461719       | 3.51 | 406244       | 5.33 | 171771       | 7.04 |

**IS 1** = Tert Butyl Alcohol-D9

**IS 2** = Pentafluorobenzene

**IS 3** = 1,4-Difluorobenzene

**IS 4** = Chlorobenzene-D5

**IS 5** = 1,4-Dichlorobenzene-d4

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.

(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

# Internal Standard Area Summary

Page 1 of 1

**Job Number:** JD54605

**Account:** FLSNYYY Fleming-Lee Shue, Inc.

**Project:** Info Tech High School, 21-16 44th Road, Long Island City, NY

**Check Std:** V1U2018-CC2015

**Injection Date:** 11/01/22

**Lab File ID:** 1U49688.D

**Injection Time:** 21:11

**Instrument ID:** GCMS1U

**Method:** SW846 8260D

|                          | IS 1<br>AREA | RT   | IS 2<br>AREA | RT   | IS 3<br>AREA | RT   | IS 4<br>AREA | RT   | IS 5<br>AREA | RT   |
|--------------------------|--------------|------|--------------|------|--------------|------|--------------|------|--------------|------|
| Check Std                | 298505       | 2.06 | 449399       | 2.99 | 590446       | 3.29 | 570644       | 5.09 | 271831       | 6.83 |
| Upper Limit <sup>a</sup> | 597010       | 2.56 | 898798       | 3.49 | 1180892      | 3.79 | 1141288      | 5.59 | 543662       | 7.33 |
| Lower Limit <sup>b</sup> | 149253       | 1.56 | 224700       | 2.49 | 295223       | 2.79 | 285322       | 4.59 | 135916       | 6.33 |

| Lab<br>Sample ID | IS 1<br>AREA | RT   | IS 2<br>AREA | RT   | IS 3<br>AREA | RT   | IS 4<br>AREA | RT   | IS 5<br>AREA | RT   |
|------------------|--------------|------|--------------|------|--------------|------|--------------|------|--------------|------|
| V1U2018-BS       | 299662       | 2.06 | 464130       | 3.00 | 603473       | 3.29 | 583371       | 5.09 | 275734       | 6.83 |
| V1U2018-MB       | 322138       | 2.06 | 394860       | 2.99 | 533667       | 3.29 | 504104       | 5.09 | 230647       | 6.83 |
| JD54605-5        | 301688       | 2.06 | 370701       | 3.00 | 498926       | 3.29 | 462026       | 5.09 | 213032       | 6.83 |
| JD54605-5MS      | 289250       | 2.06 | 440352       | 3.00 | 566489       | 3.29 | 559667       | 5.09 | 264037       | 6.83 |
| JD54605-5MSD     | 306672       | 2.06 | 466306       | 2.99 | 606379       | 3.29 | 581135       | 5.09 | 272851       | 6.83 |
| JD54605-9        | 333142       | 2.06 | 416515       | 3.00 | 564283       | 3.29 | 521551       | 5.09 | 235910       | 6.83 |
| ZZZZZZ           | 286532       | 2.06 | 348135       | 3.00 | 483792       | 3.29 | 449604       | 5.09 | 205984       | 6.83 |
| ZZZZZZ           | 279938       | 2.06 | 350513       | 3.00 | 478713       | 3.29 | 447712       | 5.09 | 205936       | 6.83 |
| JD54605-2        | 279842       | 2.06 | 347014       | 2.99 | 473111       | 3.29 | 440941       | 5.09 | 205556       | 6.83 |
| JD54605-6        | 277238       | 2.06 | 342401       | 3.00 | 464921       | 3.29 | 437038       | 5.09 | 200122       | 6.83 |
| JD54605-8        | 271185       | 2.06 | 342536       | 2.99 | 470709       | 3.29 | 433873       | 5.09 | 201204       | 6.83 |
| ZZZZZZ           | 274281       | 2.06 | 340229       | 2.99 | 463299       | 3.29 | 435207       | 5.09 | 199382       | 6.83 |

**IS 1** = Tert Butyl Alcohol-D9

**IS 2** = Pentafluorobenzene

**IS 3** = 1,4-Difluorobenzene

**IS 4** = Chlorobenzene-D5

**IS 5** = 1,4-Dichlorobenzene-d4

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.

(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

# Internal Standard Area Summary

Page 1 of 1

**Job Number:** JD54605

**Account:** FLSNYYY Fleming-Lee Shue, Inc.

**Project:** Info Tech High School, 21-16 44th Road, Long Island City, NY

**Check Std:** V2U2018-CC2015

**Injection Date:** 11/01/22

**Lab File ID:** 2U49689.D

**Injection Time:** 21:25

**Instrument ID:** GCMS2U

**Method:** SW846 8260D

|                          | IS 1<br>AREA | RT   | IS 2<br>AREA | RT   | IS 3<br>AREA | RT   | IS 4<br>AREA | RT   | IS 5<br>AREA | RT   |
|--------------------------|--------------|------|--------------|------|--------------|------|--------------|------|--------------|------|
| Check Std                | 347789       | 2.06 | 423954       | 3.00 | 558898       | 3.29 | 573130       | 5.09 | 303787       | 6.83 |
| Upper Limit <sup>a</sup> | 695578       | 2.56 | 847908       | 3.50 | 1117796      | 3.79 | 1146260      | 5.59 | 607574       | 7.33 |
| Lower Limit <sup>b</sup> | 173895       | 1.56 | 211977       | 2.50 | 279449       | 2.79 | 286565       | 4.59 | 151894       | 6.33 |

| Lab<br>Sample ID       | IS 1<br>AREA | RT   | IS 2<br>AREA | RT   | IS 3<br>AREA | RT   | IS 4<br>AREA | RT   | IS 5<br>AREA | RT   |
|------------------------|--------------|------|--------------|------|--------------|------|--------------|------|--------------|------|
| V2U2018-BS             | 348452       | 2.07 | 423234       | 3.00 | 552953       | 3.29 | 558881       | 5.09 | 297195       | 6.83 |
| V2U2018-MB             | 358059       | 2.06 | 359067       | 2.99 | 488606       | 3.29 | 472739       | 5.09 | 232751       | 6.83 |
| JD54605-10             | 338144       | 2.06 | 348271       | 3.00 | 474046       | 3.29 | 456327       | 5.09 | 224782       | 6.83 |
| JD54605-4 <sup>c</sup> | 329131       | 2.06 | 337392       | 2.99 | 466536       | 3.29 | 437625       | 5.09 | 220431       | 6.83 |
| JD54605-9              | 326220       | 2.06 | 331524       | 3.00 | 453169       | 3.29 | 422076       | 5.09 | 210945       | 6.83 |
| JD54605-4MS            | 324836       | 2.06 | 396965       | 3.00 | 524405       | 3.29 | 528242       | 5.09 | 285421       | 6.83 |
| JD54605-4MSD           | 355020       | 2.06 | 426138       | 3.00 | 560881       | 3.29 | 563951       | 5.09 | 304121       | 6.83 |
| ZZZZZZ                 | 354605       | 2.06 | 354507       | 3.00 | 482636       | 3.29 | 463191       | 5.09 | 227740       | 6.83 |
| ZZZZZZ                 | 347796       | 2.06 | 346191       | 3.00 | 473909       | 3.29 | 456442       | 5.09 | 223971       | 6.83 |
| ZZZZZZ                 | 346549       | 2.06 | 335528       | 3.00 | 461543       | 3.29 | 445657       | 5.09 | 216926       | 6.83 |
| ZZZZZZ                 | 332369       | 2.06 | 327396       | 2.99 | 449765       | 3.29 | 433986       | 5.09 | 213526       | 6.83 |
| ZZZZZZ                 | 316927       | 2.06 | 328382       | 3.00 | 443858       | 3.29 | 431839       | 5.09 | 214070       | 6.83 |
| ZZZZZZ                 | 303501       | 2.06 | 318531       | 3.00 | 441648       | 3.29 | 424124       | 5.09 | 208442       | 6.83 |
| ZZZZZZ                 | 307916       | 2.06 | 320382       | 3.00 | 436714       | 3.29 | 420341       | 5.09 | 207767       | 6.83 |
| JD54605-1              | 302041       | 2.06 | 318149       | 3.00 | 435487       | 3.29 | 422219       | 5.09 | 206181       | 6.83 |
| JD54605-3              | 302497       | 2.06 | 315419       | 3.00 | 430353       | 3.29 | 415945       | 5.09 | 201476       | 6.83 |
| JD54605-7              | 301921       | 2.06 | 315869       | 2.99 | 431710       | 3.29 | 413743       | 5.09 | 204163       | 6.83 |
| ZZZZZZ                 | 297081       | 2.06 | 316238       | 3.00 | 426139       | 3.29 | 414405       | 5.09 | 202473       | 6.83 |
| ZZZZZZ                 | 300730       | 2.06 | 312352       | 3.00 | 424606       | 3.29 | 406832       | 5.09 | 203197       | 6.83 |
| ZZZZZZ                 | 304843       | 2.06 | 309515       | 3.00 | 426298       | 3.29 | 406274       | 5.09 | 198851       | 6.83 |

**IS 1** = Tert Butyl Alcohol-D9

**IS 2** = Pentafluorobenzene

**IS 3** = 1,4-Difluorobenzene

**IS 4** = Chlorobenzene-D5

**IS 5** = 1,4-Dichlorobenzene-d4

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.

(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

(c) Dilution required due to high concentration of target compound.

## Surrogate Recovery Summary

Page 1 of 1

**Job Number:** JD54605

**Account:** FLSNYYNY Fleming-Lee Shue, Inc.

**Project:** Info Tech High School, 21-16 44th Road, Long Island City, NY

**Method:** SW846 8260D

**Matrix:** AQ

Samples and QC shown here apply to the above method

| Lab<br>Sample ID | Lab<br>File ID | S1  | S2  | S3  | S4     |
|------------------|----------------|-----|-----|-----|--------|
| JD54605-1        | 2U49721.D      | 102 | 109 | 103 | 98     |
| JD54605-2        | 1U49722.D      | 103 | 109 | 104 | 95     |
| JD54605-3        | 2U49723.D      | 102 | 110 | 103 | 98     |
| JD54605-4        | 2U49699.D      | 102 | 108 | 105 | 96     |
| JD54605-4        | 1K01239.D      | 100 | 104 | 104 | 111    |
| JD54605-5        | 1U49700.D      | 102 | 109 | 105 | 96     |
| JD54605-6        | 1U49724.D      | 102 | 109 | 103 | 95     |
| JD54605-7        | 2U49725.D      | 102 | 108 | 104 | 97     |
| JD54605-8        | 1U49726.D      | 103 | 107 | 104 | 95     |
| JD54605-9        | 2U49701.D      | 101 | 110 | 106 | 97     |
| JD54605-9        | 1U49706.D      | 101 | 105 | 103 | 100    |
| JD54605-10       | 2U49697.D      | 101 | 108 | 103 | 98     |
| JD54605-11       | 1K01237.D      | 101 | 102 | 105 | 113    |
| JD54531-3MS      | 1K01251.D      | 106 | 108 | 105 | 115* a |
| JD54531-3MSD     | 1K01253.D      | 102 | 110 | 105 | 114    |
| JD54605-4MS      | 2U49703.D      | 91  | 106 | 94  | 96     |
| JD54605-4MSD     | 2U49705.D      | 92  | 104 | 95  | 95     |
| JD54605-5MS      | 1U49702.D      | 91  | 108 | 95  | 96     |
| JD54605-5MSD     | 1U49704.D      | 91  | 104 | 97  | 98     |
| V1K38-BS         | 1K01228.D      | 104 | 103 | 105 | 113    |
| V1K38-MB         | 1K01232.D      | 103 | 107 | 105 | 112    |
| V1U2018-BS       | 1U49692.D      | 91  | 105 | 96  | 96     |
| V1U2018-MB       | 1U49696.D      | 102 | 108 | 103 | 97     |
| V2U2018-BS       | 2U49693.D      | 93  | 103 | 95  | 95     |
| V2U2018-MB       | 2U49695.D      | 102 | 109 | 104 | 99     |

### Surrogate Compounds

### Recovery Limits

|                            |         |
|----------------------------|---------|
| S1 = Dibromofluoromethane  | 80-120% |
| S2 = 1,2-Dichloroethane-D4 | 80-120% |
| S3 = Toluene-D8            | 80-120% |
| S4 = 4-Bromofluorobenzene  | 82-114% |

(a) Outside of in house control limits, but within reasonable method recovery limits.

Initial Calibration Summary

Job Number:

Account:

Project:

JD54605  
FLSNYNY Fleming-Lee Shue, Inc.  
Info Tech High School, 21-16 44th Road, Long Island City, NY

Sample:

Lab FileID:

V1K11-ICC11  
1K00270.D

| Response Factor Report GCMS K                                      |                                                    |       |            |       |            |       |            |       |       |       |       |       |
|--------------------------------------------------------------------|----------------------------------------------------|-------|------------|-------|------------|-------|------------|-------|-------|-------|-------|-------|
| Method : C:\msdchem\1\methods\M1K11.M (RTE Integrator)             |                                                    |       |            |       |            |       |            |       |       |       |       |       |
| Title : SW-846 Method 8260D, column Rtx-VMS 20m x 0.18 id x 1.0 um |                                                    |       |            |       |            |       |            |       |       |       |       |       |
| Last Update : Mon Oct 17 15:20:12 2022                             |                                                    |       |            |       |            |       |            |       |       |       |       |       |
| Response via : Initial Calibration                                 |                                                    |       |            |       |            |       |            |       |       |       |       |       |
| Calibration Files                                                  |                                                    |       |            |       |            |       |            |       |       |       |       |       |
| 4                                                                  | =1K00264.D                                         | 0.5   | =1K00258.D | 8     | =1K00266.D | 50    | =1K00270.D |       |       |       |       |       |
| 100                                                                | =1K00272.D                                         | 1     | =1K00260.D | 200   | =1K00274.D | 20    | =1K00268.D |       |       |       |       |       |
| 2                                                                  | =1K00262.D                                         | 0.2   | =1K00256.D | =     |            |       | =          |       |       |       |       |       |
| Compound                                                           |                                                    |       |            |       |            |       |            |       |       |       |       |       |
|                                                                    | 4                                                  | 0.5   | 8          | 50    | 100        | 1     | 200        | 20    | 2     | 0.2   | Avg   | %RSD  |
| -----                                                              |                                                    |       |            |       |            |       |            |       |       |       |       |       |
| 1) I                                                               | tert butyl alcohol-d9 -----ISTD-----               |       |            |       |            |       |            |       |       |       |       |       |
| 2) ethanol                                                         | 0.144                                              |       | 0.148      | 0.127 | 0.123      | 0.149 | 0.098      | 0.128 | 0.164 |       | 0.135 | 15.22 |
| 3) tertiary butyl alcohol                                          |                                                    |       |            |       |            |       |            |       |       |       |       |       |
|                                                                    | 1.337                                              |       | 1.369      | 1.375 | 1.337      | 1.354 | 1.149      | 1.312 | 1.422 |       | 1.332 | 6.05  |
| 4) 1,4-dioxane                                                     |                                                    |       |            |       |            |       |            |       |       |       |       |       |
|                                                                    | 0.071                                              |       | 0.073      | 0.071 | 0.070      | 0.056 | 0.061      | 0.070 | 0.066 |       | 0.067 | 8.75  |
| 5) I                                                               | pentafluorobenzene -----ISTD-----                  |       |            |       |            |       |            |       |       |       |       |       |
| 6) chlorodifluoromethane                                           | 0.945                                              | 0.978 | 1.019      | 1.004 | 1.003      | 0.984 | 0.998      | 0.975 | 0.913 | 0.905 | 0.972 | 4.03  |
| 7) dichlorodifluoromethane                                         |                                                    |       |            |       |            |       |            |       |       |       |       |       |
|                                                                    | 0.610                                              |       | 0.645      | 0.693 | 0.678      | 0.632 | 0.684      | 0.658 | 0.642 |       | 0.655 | 4.35  |
| 8) chloromethane                                                   |                                                    |       |            |       |            |       |            |       |       |       |       |       |
|                                                                    | 0.948                                              | 0.896 | 1.003      | 1.000 | 1.034      | 1.156 | 1.061      | 0.968 | 0.944 |       | 1.001 | 7.65  |
| 9) vinyl chloride                                                  |                                                    |       |            |       |            |       |            |       |       |       |       |       |
|                                                                    | 0.789                                              |       | 0.820      | 0.851 | 0.836      | 0.852 | 0.863      | 0.812 | 0.769 |       | 0.824 | 4.00  |
| 10) 1,3-butadiene                                                  | *This compound fails Initial Calibration criteria* |       |            |       |            |       |            |       |       |       |       |       |
|                                                                    | 0.630                                              | 0.606 | 0.633      | 0.628 | 0.613      | 0.631 | 0.616      | 0.613 | 0.583 |       | 0.617 | 2.60  |
| 11) bromomethane                                                   |                                                    |       |            |       |            |       |            |       |       |       |       |       |
|                                                                    | 0.170                                              |       | 0.184      | 0.217 | 0.222      | 0.239 | 0.235      | 0.195 | 0.181 |       | 0.205 | 12.74 |
| 12) chloroethane                                                   |                                                    |       |            |       |            |       |            |       |       |       |       |       |
|                                                                    | 0.465                                              |       | 0.457      | 0.429 | 0.401      | 0.622 | 0.375      | 0.429 | 0.524 |       | 0.463 | 16.90 |
| 13) trichlorofluoromethane                                         |                                                    |       |            |       |            |       |            |       |       |       |       |       |
|                                                                    | 0.588                                              |       | 0.619      | 0.673 | 0.631      | 0.596 | 0.636      | 0.633 | 0.593 |       | 0.621 | 4.59  |
| 14) ethyl ether                                                    |                                                    |       |            |       |            |       |            |       |       |       |       |       |
|                                                                    | 0.297                                              | 0.246 | 0.290      | 0.306 | 0.299      | 0.263 | 0.307      | 0.300 | 0.274 |       | 0.287 | 7.39  |
| 15) acrolein                                                       |                                                    |       |            |       |            |       |            |       |       |       |       |       |
|                                                                    | 0.148                                              |       | 0.168      | 0.216 | 0.215      |       | 0.219      | 0.190 |       |       | 0.193 | 15.40 |
| 16) freon 113                                                      |                                                    |       |            |       |            |       |            |       |       |       |       |       |
|                                                                    | 0.285                                              | 0.211 | 0.262      | 0.290 | 0.274      | 0.271 | 0.266      | 0.262 | 0.284 |       | 0.267 | 8.80  |
| 17) 1,1-dichloroethene                                             |                                                    |       |            |       |            |       |            |       |       |       |       |       |
|                                                                    | 0.803                                              | 0.810 | 0.796      | 0.856 | 0.842      | 0.768 | 0.888      | 0.801 | 0.800 | 0.918 | 0.828 | 5.66  |
| 18) acetone                                                        |                                                    |       |            |       |            |       |            |       |       |       |       |       |
|                                                                    | 0.160                                              | 0.180 | 0.160      | 0.171 | 0.172      | 0.175 | 0.165      | 0.169 | 0.154 |       | 0.167 | 4.82  |
| 19) acetonitrile                                                   |                                                    |       |            |       |            |       |            |       |       |       |       |       |
|                                                                    | 0.254                                              |       | 0.262      | 0.259 | 0.264      |       |            | 0.260 | 0.261 |       | 0.260 | 1.31  |
| 20) iodomethane                                                    |                                                    |       |            |       |            |       |            |       |       |       |       |       |
|                                                                    | 0.242                                              |       | 0.244      | 0.340 | 0.343      | 0.318 | 0.352      | 0.267 | 0.291 |       | 0.300 | 14.98 |
| 21) carbon disulfide                                               |                                                    |       |            |       |            |       |            |       |       |       |       |       |
|                                                                    | 1.247                                              | 1.299 | 1.221      | 1.238 | 1.233      | 1.205 | 1.293      | 1.195 | 1.189 |       | 1.236 | 3.19  |
| 22) methylene chloride                                             |                                                    |       |            |       |            |       |            |       |       |       |       |       |
|                                                                    | 0.421                                              | 0.400 | 0.427      | 0.458 | 0.441      | 0.412 | 0.458      | 0.418 | 0.401 | 0.462 | 0.430 | 5.50  |
| 23) methyl acetate                                                 |                                                    |       |            |       |            |       |            |       |       |       |       |       |

# Initial Calibration Summary

**Job Number:** JD54605

**Account:** FLSNYYNY Fleming-Lee Shue, Inc.

**Project:** Info Tech High School, 21-16 44th Road, Long Island City, NY

**Sample:**

V1K11-ICC11

**Lab FileID:**

1K00270.D

|     |                                      |       |       |       |       |       |       |       |       |       |
|-----|--------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|     | 0.219                                | 0.222 | 0.203 | 0.186 | 0.200 | 0.175 | 0.209 | 0.212 | 0.203 | 7.86  |
| 24) | methyl tert butyl ether              |       |       |       |       |       |       |       |       |       |
|     | 1.460                                | 1.409 | 1.462 | 1.559 | 1.517 | 1.460 | 1.578 | 1.452 | 1.397 | 6.29  |
| 25) | trans-1,2-dichloroethene             |       |       |       |       |       |       |       |       |       |
|     | 0.905                                | 0.864 | 0.857 | 0.848 | 1.205 | 0.876 | 0.840 | 0.977 | 0.922 | 13.33 |
| 26) | hexane                               |       |       |       |       |       |       |       |       |       |
|     | 1.679                                | 1.886 | 1.690 | 1.739 | 1.749 | 1.612 | 1.770 | 1.677 | 1.573 | 5.38  |
| 27) | di-isopropyl ether                   |       |       |       |       |       |       |       |       |       |
|     | 2.648                                | 2.575 | 2.726 | 2.784 | 2.757 | 2.501 | 2.827 | 2.730 | 2.606 | 3.80  |
| 28) | ethyl tert-butyl ether               |       |       |       |       |       |       |       |       |       |
|     | 1.981                                | 1.902 | 2.077 | 2.187 | 2.156 | 1.939 | 2.244 | 2.110 | 1.958 | 6.64  |
| 29) | 2-butanone                           |       |       |       |       |       |       |       |       |       |
|     | 0.139                                | 0.125 | 0.142 | 0.145 | 0.145 | 0.121 | 0.150 | 0.146 | 0.126 | 7.77  |
| 30) | 1,1-dichloroethane                   |       |       |       |       |       |       |       |       |       |
|     | 1.036                                | 1.027 | 1.035 | 1.085 | 1.072 | 1.000 | 1.098 | 1.065 | 0.999 | 3.32  |
| 31) | chloroprene                          |       |       |       |       |       |       |       |       |       |
|     | 1.052                                | 0.979 | 1.143 | 1.163 | 1.198 | 1.110 | 1.167 | 1.186 | 1.013 | 7.51  |
| 32) | acrylonitrile                        |       |       |       |       |       |       |       |       |       |
|     | 0.355                                | 0.353 | 0.388 | 0.433 | 0.412 | 0.435 | 0.437 | 0.407 | 0.356 | 8.97  |
| 33) | vinyl acetate                        |       |       |       |       |       |       |       |       |       |
|     | 0.060                                | 0.092 | 0.092 |       |       | 0.097 | 0.079 |       | 0.084 | 17.66 |
| 34) | ethyl acetate                        |       |       |       |       |       |       |       |       |       |
|     | 0.084                                | 0.081 | 0.100 | 0.096 |       | 0.099 | 0.091 | 0.072 | 0.089 | 11.57 |
| 35) | 2,2-dichloropropane                  |       |       |       |       |       |       |       |       |       |
|     | 0.651                                | 0.567 | 0.683 | 0.680 | 0.668 | 0.648 | 0.684 | 0.634 | 0.669 | 5.84  |
| 36) | cis-1,2-dichloroethene               |       |       |       |       |       |       |       |       |       |
|     | 0.443                                | 0.413 | 0.439 | 0.453 | 0.444 | 0.418 | 0.460 | 0.433 | 0.429 | 4.46  |
| 37) | propionitrile                        |       |       |       |       |       |       |       |       |       |
|     | 0.214                                | 0.224 | 0.232 | 0.233 |       | 0.236 | 0.221 | 0.215 | 0.225 | 3.93  |
| 38) | methyl acrylate                      |       |       |       |       |       |       |       |       |       |
|     | 0.153                                | 0.150 | 0.151 | 0.142 | 0.132 | 0.139 | 0.152 | 0.147 | 0.146 | 5.22  |
| 39) | bromochloromethane                   |       |       |       |       |       |       |       |       |       |
|     | 0.178                                | 0.155 | 0.180 | 0.175 | 0.166 | 0.155 | 0.169 | 0.183 | 0.175 | 6.03  |
| 40) | tetrahydrofuran                      |       |       |       |       |       |       |       |       |       |
|     | 0.136                                | 0.119 | 0.124 | 0.119 | 0.133 | 0.122 | 0.114 | 0.098 | 0.121 | 9.71  |
| 41) | chloroform                           |       |       |       |       |       |       |       |       |       |
|     | 0.331                                | 0.311 | 0.341 | 0.335 | 0.333 | 0.382 | 0.337 | 0.341 | 0.312 | 5.77  |
| 42) | dibromofluoromethane (s)             |       |       |       |       |       |       |       |       |       |
|     | 0.458                                | 0.455 | 0.472 | 0.465 | 0.465 | 0.466 | 0.484 | 0.475 | 0.451 | 2.44  |
| 43) | methacrylonitrile                    |       |       |       |       |       |       |       |       |       |
|     | 0.380                                | 0.384 | 0.369 | 0.370 |       | 0.379 | 0.361 | 0.420 | 0.380 | 5.02  |
| 44) | 1,1,1-trichloroethane                |       |       |       |       |       |       |       |       |       |
|     | 0.624                                | 0.587 | 0.638 | 0.678 | 0.674 | 0.666 | 0.686 | 0.649 | 0.601 | 9.12  |
| 45) | cyclohexane                          |       |       |       |       |       |       |       |       |       |
|     | 0.731                                | 0.791 | 0.831 | 0.809 | 0.815 | 0.838 | 0.789 | 0.759 | 0.795 | 4.54  |
| 46) | 1,1-dichloropropene                  |       |       |       |       |       |       |       |       |       |
|     | 0.654                                | 0.569 | 0.661 | 0.701 | 0.689 | 0.550 | 0.713 | 0.662 | 0.667 | 8.26  |
| 47) | carbon tetrachloride                 |       |       |       |       |       |       |       |       |       |
|     | 0.572                                | 0.616 | 0.541 | 0.570 | 0.555 | 0.604 | 0.573 | 0.527 | 0.587 | 4.97  |
| 48) | isobutyl alcohol                     |       |       |       |       |       |       |       |       |       |
|     | 0.147                                | 0.147 | 0.158 | 0.159 |       |       | 0.149 | 0.139 | 0.150 | 4.97  |
| 49) | tert-amyl alcohol                    |       |       |       |       |       |       |       |       |       |
|     | 0.073                                | 0.061 | 0.076 | 0.077 | 0.080 | 0.071 | 0.081 | 0.074 | 0.075 | 7.73  |
| 50) | I 1,4-difluorobenzene -----ISTD----- |       |       |       |       |       |       |       |       |       |
| 51) | 1,2-dichloroethane-d4 (s)            |       |       |       |       |       |       |       |       |       |
|     | 0.428                                | 0.432 | 0.437 | 0.439 | 0.433 | 0.432 | 0.518 | 0.443 | 0.406 | 6.73  |
| 52) | iso-octane                           |       |       |       |       |       |       |       |       |       |
|     | 1.837                                | 1.768 | 1.839 | 1.809 | 1.822 | 1.825 | 1.812 | 1.751 | 1.776 | 1.94  |
| 53) | benzene                              |       |       |       |       |       |       |       |       |       |



# Initial Calibration Summary

**Job Number:** JD54605

**Sample:** V1K11-ICC11

**Account:** FLSNYNY Fleming-Lee Shue, Inc.

**Lab FileID:** 1K00270.D

**Project:** Info Tech High School, 21-16 44th Road, Long Island City, NY

|     |                                   |       |       |       |       |       |       |       |       |       |       |       |
|-----|-----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|     | 1.196                             | 1.237 | 1.192 | 1.222 | 1.204 | 1.236 | 1.192 | 1.187 | 1.203 | 1.490 | 1.236 | 7.37  |
| 54) | tert-amyl methyl ether            |       |       |       |       |       |       |       |       |       |       |       |
|     | 0.961                             | 1.051 | 0.963 | 0.973 | 0.964 | 0.949 | 0.967 | 0.950 | 0.943 | 1.089 | 0.981 | 4.95  |
| 55) | heptane                           |       |       |       |       |       |       |       |       |       |       |       |
|     | 0.286                             | 0.212 | 0.243 | 0.286 | 0.289 | 0.257 | 0.250 | 0.278 | 0.246 | 0.279 | 0.263 | 9.54  |
| 56) | isopropyl acetate                 |       |       |       |       |       |       |       |       |       |       |       |
|     | 0.080                             |       | 0.085 | 0.098 | 0.102 |       | 0.101 | 0.090 |       |       | 0.093 | 9.51  |
| 57) | 1,2-dichloroethane                |       |       |       |       |       |       |       |       |       |       |       |
|     | 0.468                             |       | 0.450 | 0.452 | 0.444 | 0.506 | 0.443 | 0.451 | 0.469 |       | 0.460 | 4.57  |
| 58) | n-butyl alcohol                   |       |       |       |       |       |       |       |       |       |       |       |
|     | 0.029                             | 0.027 | 0.031 | 0.033 | 0.036 | 0.027 | 0.033 | 0.032 | 0.028 |       | 0.031 | 10.19 |
| 59) | ethyl acrylate                    |       |       |       |       |       |       |       |       |       |       |       |
|     | 0.642                             |       | 0.690 | 0.810 | 0.835 |       | 0.848 | 0.769 | 0.602 |       | 0.742 | 13.19 |
| 60) | trichloroethene                   |       |       |       |       |       |       |       |       |       |       |       |
|     | 0.256                             | 0.217 | 0.239 | 0.251 | 0.246 | 0.239 | 0.243 | 0.243 | 0.244 | 0.313 | 0.249 | 9.93  |
| 61) | 2-nitropropane                    |       |       |       |       |       |       |       |       |       |       |       |
|     | 0.234                             | 0.184 | 0.198 | 0.209 | 0.215 | 0.192 | 0.242 | 0.191 | 0.240 |       | 0.212 | 10.61 |
| 62) | 2-chloroethyl vinyl ether         |       |       |       |       |       |       |       |       |       |       |       |
|     | 0.273                             | 0.261 | 0.278 | 0.290 | 0.287 | 0.252 | 0.286 | 0.279 | 0.252 | 0.238 | 0.270 | 6.60  |
| 63) | methyl methacrylate               |       |       |       |       |       |       |       |       |       |       |       |
|     | 0.102                             |       | 0.105 | 0.109 | 0.108 |       | 0.108 | 0.107 | 0.086 |       | 0.104 | 7.96  |
| 64) | 1,2-dichloropropane               |       |       |       |       |       |       |       |       |       |       |       |
|     | 0.373                             | 0.380 | 0.378 | 0.384 | 0.380 | 0.377 | 0.373 | 0.371 | 0.379 | 0.329 | 0.372 | 4.24  |
| 65) | methylcyclohexane                 |       |       |       |       |       |       |       |       |       |       |       |
|     | 0.674                             |       | 0.634 | 0.632 | 0.637 | 0.850 | 0.626 | 0.626 | 0.694 |       | 0.672 | 11.37 |
| 66) | dibromomethane                    |       |       |       |       |       |       |       |       |       |       |       |
|     | 0.152                             | 0.176 | 0.158 | 0.164 | 0.162 | 0.181 | 0.162 | 0.163 | 0.167 |       | 0.165 | 5.26  |
| 67) | bromodichloromethane              |       |       |       |       |       |       |       |       |       |       |       |
|     | 0.357                             | 0.365 | 0.340 | 0.366 | 0.362 | 0.315 | 0.361 | 0.353 | 0.336 | 0.300 | 0.346 | 6.55  |
| 68) | epichlorohydrin                   |       |       |       |       |       |       |       |       |       |       |       |
|     | 0.080                             | 0.066 | 0.083 | 0.087 | 0.090 | 0.095 | 0.085 | 0.082 | 0.084 |       | 0.084 | 9.76  |
| 69) | cis-1,3-dichloropropene           |       |       |       |       |       |       |       |       |       |       |       |
|     | 0.468                             | 0.480 | 0.470 | 0.502 | 0.499 | 0.481 | 0.500 | 0.479 | 0.446 | 0.568 | 0.489 | 6.66  |
| 70) | 4-methyl-2-pentanone              |       |       |       |       |       |       |       |       |       |       |       |
|     | 0.288                             | 0.263 | 0.284 | 0.297 | 0.296 | 0.266 | 0.293 | 0.289 | 0.267 | 0.240 | 0.278 | 6.67  |
| 71) | 3-methyl-1-butanol                |       |       |       |       |       |       |       |       |       |       |       |
|     | 0.019                             |       | 0.020 | 0.023 | 0.025 | 0.019 | 0.024 | 0.022 | 0.018 |       | 0.021 | 12.61 |
| 72) | I chlorobenzene-d5 -----ISTD----- |       |       |       |       |       |       |       |       |       |       |       |
| 73) | toluene-d8 (s)                    |       |       |       |       |       |       |       |       |       |       |       |
|     | 1.450                             | 1.436 | 1.454 | 1.448 | 1.462 | 1.452 | 1.467 | 1.452 | 1.467 | 1.440 | 1.453 | 0.71  |
| 74) | toluene                           |       |       |       |       |       |       |       |       |       |       |       |
|     | 0.784                             | 0.822 | 0.783 | 0.810 | 0.786 | 0.795 | 0.787 | 0.767 | 0.803 | 0.889 | 0.803 | 4.26  |
| 75) | ethyl methacrylate                |       |       |       |       |       |       |       |       |       |       |       |
|     | 0.478                             |       | 0.486 | 0.549 | 0.540 |       | 0.550 | 0.515 | 0.429 |       | 0.507 | 8.84  |
| 76) | trans-1,3-dichloropropene         |       |       |       |       |       |       |       |       |       |       |       |
|     | 0.484                             | 0.450 | 0.475 | 0.519 | 0.508 | 0.493 | 0.511 | 0.496 | 0.506 | 0.478 | 0.492 | 4.23  |
| 77) | 1,1,2-trichloroethane             |       |       |       |       |       |       |       |       |       |       |       |
|     | 0.237                             | 0.238 | 0.239 | 0.237 | 0.238 | 0.228 | 0.237 | 0.233 | 0.242 |       | 0.237 | 1.67  |
| 78) | tetrachloroethene                 |       |       |       |       |       |       |       |       |       |       |       |
|     | 0.269                             | 0.228 | 0.264 | 0.262 | 0.255 | 0.252 | 0.246 | 0.247 | 0.269 | 0.269 | 0.256 | 5.22  |
| 79) | 2-hexanone                        |       |       |       |       |       |       |       |       |       |       |       |
|     | 0.353                             | 0.311 | 0.363 | 0.380 | 0.379 | 0.332 | 0.369 | 0.372 | 0.351 | 0.278 | 0.349 | 9.47  |
| 80) | 1,3-dichloropropane               |       |       |       |       |       |       |       |       |       |       |       |
|     | 0.565                             | 0.513 | 0.577 | 0.571 | 0.557 | 0.564 | 0.556 | 0.547 | 0.572 | 0.519 | 0.554 | 3.97  |
| 81) | butyl acetate                     |       |       |       |       |       |       |       |       |       |       |       |
|     | 0.334                             |       | 0.358 | 0.460 | 0.479 |       | 0.487 | 0.409 |       |       | 0.421 | 15.40 |
| 82) | dibromochloromethane              |       |       |       |       |       |       |       |       |       |       |       |
|     | 0.257                             | 0.268 | 0.265 | 0.278 | 0.272 | 0.255 | 0.275 | 0.260 | 0.260 |       | 0.265 | 3.06  |
| 83) | 1,2-dibromoethane                 |       |       |       |       |       |       |       |       |       |       |       |

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|      |                                        |       |       |       |       |       |       |       |       |       |       |       |
|------|----------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|      | 0.282                                  | 0.265 | 0.272 | 0.283 | 0.277 | 0.241 | 0.276 | 0.266 | 0.259 | 0.299 | 0.272 | 5.76  |
| 84)  | n-butyl ether                          |       |       |       |       |       |       |       |       |       |       |       |
|      | 2.196                                  | 2.045 | 2.245 | 2.320 | 2.312 | 2.074 | 2.262 | 2.244 | 2.163 | 1.922 | 2.178 | 5.90  |
| 85)  | chlorobenzene                          |       |       |       |       |       |       |       |       |       |       |       |
|      | 0.765                                  | 0.783 | 0.734 | 0.764 | 0.745 | 0.696 | 0.742 | 0.728 | 0.770 | 0.879 | 0.761 | 6.37  |
| 86)  | 1,1,1,2-tetrachloroethane              |       |       |       |       |       |       |       |       |       |       |       |
|      | 0.240                                  | 0.185 | 0.237 | 0.254 | 0.245 | 0.239 | 0.246 | 0.239 | 0.227 | 0.183 | 0.230 | 10.93 |
| 87)  | ethylbenzene                           |       |       |       |       |       |       |       |       |       |       |       |
|      | 1.522                                  | 1.628 | 1.508 | 1.542 | 1.510 | 1.559 | 1.497 | 1.477 | 1.533 |       | 1.531 | 2.88  |
| 88)  | m,p-xylene                             |       |       |       |       |       |       |       |       |       |       |       |
|      | 0.537                                  | 0.534 | 0.528 | 0.545 | 0.537 | 0.550 | 0.530 | 0.532 | 0.547 | 0.581 | 0.542 | 2.88  |
| 89)  | o-xylene                               |       |       |       |       |       |       |       |       |       |       |       |
|      | 0.527                                  | 0.458 | 0.523 | 0.545 | 0.530 | 0.521 | 0.522 | 0.521 | 0.542 | 0.528 | 0.522 | 4.61  |
| 90)  | styrene                                |       |       |       |       |       |       |       |       |       |       |       |
|      | 0.859                                  | 0.810 | 0.863 | 0.918 | 0.909 | 0.864 | 0.896 | 0.862 | 0.830 | 0.789 | 0.860 | 4.82  |
| 91)  | bromoform                              |       |       |       |       |       |       |       |       |       |       |       |
|      | 0.186                                  |       | 0.188 | 0.209 | 0.205 | 0.170 | 0.206 | 0.185 | 0.177 |       | 0.191 | 7.49  |
| 92)  | butyl acrylate                         |       |       |       |       |       |       |       |       |       |       |       |
|      | 0.738                                  |       | 0.800 | 1.078 | 1.151 |       | 1.165 | 0.954 |       |       | 0.981 | 18.50 |
| 93)  | isopropylbenzene                       |       |       |       |       |       |       |       |       |       |       |       |
|      | 1.426                                  | 1.311 | 1.406 | 1.471 | 1.435 | 1.354 | 1.408 | 1.405 | 1.456 | 1.350 | 1.402 | 3.58  |
| 94)  | cis-1,4-dichloro-2-butene              |       |       |       |       |       |       |       |       |       |       |       |
|      | 0.181                                  | 0.164 | 0.180 | 0.219 | 0.219 | 0.180 | 0.219 | 0.199 | 0.186 |       | 0.194 | 10.60 |
| 95)  | I 1,4-dichlorobenzene-d -----ISTD----- |       |       |       |       |       |       |       |       |       |       |       |
| 96)  | 4-bromofluorobenzene (s)               |       |       |       |       |       |       |       |       |       |       |       |
|      | 1.141                                  | 1.120 | 1.152 | 1.115 | 1.153 | 1.157 | 1.178 | 1.123 | 1.130 | 1.142 | 1.141 | 1.71  |
| 97)  | bromobenzene                           |       |       |       |       |       |       |       |       |       |       |       |
|      | 0.609                                  | 0.675 | 0.628 | 0.617 | 0.618 | 0.593 | 0.618 | 0.597 | 0.604 | 0.470 | 0.603 | 8.64  |
| 98)  | 1,1,2,2-tetrachloroethane              |       |       |       |       |       |       |       |       |       |       |       |
|      | 1.032                                  | 0.923 | 1.008 | 0.991 | 0.978 | 0.988 | 0.983 | 0.964 | 1.025 | 0.960 | 0.985 | 3.28  |
| 99)  | trans-1,4-dichloro-2-butene            |       |       |       |       |       |       |       |       |       |       |       |
|      | 0.522                                  | 0.573 | 0.571 | 0.571 | 0.573 | 0.574 | 0.561 | 0.553 | 0.471 |       | 0.552 | 6.30  |
| 100) | 1,2,3-trichloropropane                 |       |       |       |       |       |       |       |       |       |       |       |
|      | 0.302                                  |       | 0.297 | 0.311 | 0.300 | 0.229 | 0.302 | 0.283 | 0.270 |       | 0.287 | 9.31  |
| 101) | n-propylbenzene                        |       |       |       |       |       |       |       |       |       |       |       |
|      | 3.935                                  | 3.768 | 3.949 | 3.969 | 3.956 | 3.750 | 3.931 | 3.824 | 3.860 | 4.065 | 3.901 | 2.52  |
| 102) | 2-chlorotoluene                        |       |       |       |       |       |       |       |       |       |       |       |
|      | 0.607                                  | 0.737 | 0.634 | 0.636 | 0.622 | 0.619 | 0.618 | 0.625 | 0.685 | 0.491 | 0.627 | 9.86  |
| 103) | 4-chlorotoluene                        |       |       |       |       |       |       |       |       |       |       |       |
|      | 2.371                                  | 2.258 | 2.366 | 2.362 | 2.355 | 2.396 | 2.336 | 2.314 | 2.247 | 2.621 | 2.363 | 4.37  |
| 104) | 1,3,5-trimethylbenzene                 |       |       |       |       |       |       |       |       |       |       |       |
|      | 2.572                                  | 2.426 | 2.532 | 2.611 | 2.568 | 2.466 | 2.531 | 2.538 | 2.526 | 2.705 | 2.548 | 3.00  |
| 105) | tert-butylbenzene                      |       |       |       |       |       |       |       |       |       |       |       |
|      | 2.065                                  | 2.030 | 2.004 | 2.114 | 2.049 | 1.974 | 2.005 | 2.021 | 2.050 | 2.127 | 2.044 | 2.36  |
| 106) | 1,2,4-trimethylbenzene                 |       |       |       |       |       |       |       |       |       |       |       |
|      | 2.606                                  | 2.461 | 2.656 | 2.710 | 2.629 | 2.538 | 2.601 | 2.604 | 2.642 | 2.437 | 2.588 | 3.31  |
| 107) | sec-butylbenzene                       |       |       |       |       |       |       |       |       |       |       |       |
|      | 3.458                                  | 3.011 | 3.408 | 3.443 | 3.369 | 3.203 | 3.296 | 3.268 | 3.241 | 2.956 | 3.265 | 5.26  |
| 108) | 1,3-dichlorobenzene                    |       |       |       |       |       |       |       |       |       |       |       |
|      | 1.239                                  | 1.230 | 1.226 | 1.270 | 1.228 | 1.195 | 1.203 | 1.194 | 1.244 | 1.372 | 1.240 | 4.19  |
| 109) | p-isopropyltoluene                     |       |       |       |       |       |       |       |       |       |       |       |
|      | 2.504                                  | 2.362 | 2.551 | 2.653 | 2.569 | 2.400 | 2.548 | 2.530 | 2.450 | 2.428 | 2.499 | 3.55  |
| 110) | 1,4-dichlorobenzene                    |       |       |       |       |       |       |       |       |       |       |       |
|      | 1.237                                  |       | 1.216 | 1.260 | 1.224 | 1.244 | 1.206 | 1.187 | 1.265 |       | 1.230 | 2.17  |
| 111) | 1,2-dichlorobenzene                    |       |       |       |       |       |       |       |       |       |       |       |
|      | 1.216                                  | 1.302 | 1.166 | 1.223 | 1.164 | 1.210 | 1.137 | 1.146 | 1.264 | 1.267 | 1.209 | 4.64  |
| 112) | 1,2,3-trimethylbenzene                 |       |       |       |       |       |       |       |       |       |       |       |
|      | 2.734                                  | 2.859 | 2.679 | 2.739 | 2.659 | 2.606 | 2.612 | 2.621 | 2.576 | 2.897 | 2.698 | 4.04  |
| 113) | n-butylbenzene                         |       |       |       |       |       |       |       |       |       |       |       |

## Initial Calibration Summary

Page 5 of 5

**Job Number:** JD54605

**Sample:** V1K11-ICC11

**Account:** FLSNYYNY Fleming-Lee Shue, Inc.

**Lab FileID:** 1K00270.D

**Project:** Info Tech High School, 21-16 44th Road, Long Island City, NY

|      |                             |       |       |       |       |       |       |       |       |       |       |       |
|------|-----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|      | 1.629                       | 1.416 | 1.635 | 1.702 | 1.657 | 1.523 | 1.654 | 1.597 | 1.526 |       | 1.593 | 5.58  |
| 114) | 1,2-dibromo-3-chloropropane |       |       |       |       |       |       |       |       |       |       |       |
|      | 0.258                       |       | 0.275 | 0.299 | 0.291 | 0.242 | 0.282 | 0.279 | 0.276 |       | 0.275 | 6.51  |
| 115) | 1,3,5-trichlorobenzene      |       |       |       |       |       |       |       |       |       |       |       |
|      | 0.924                       | 0.943 | 0.914 | 0.901 | 0.855 | 0.917 | 0.848 | 0.878 | 0.852 | 0.939 | 0.897 | 4.05  |
| 116) | 1,2,4-trichlorobenzene      |       |       |       |       |       |       |       |       |       |       |       |
|      | 0.766                       | 0.845 | 0.751 | 0.785 | 0.744 | 0.694 | 0.737 | 0.766 | 0.747 | 0.716 | 0.755 | 5.40  |
| 117) | hexachlorobutadiene         |       |       |       |       |       |       |       |       |       |       |       |
|      | 0.338                       | 0.296 | 0.342 | 0.341 | 0.327 | 0.292 | 0.321 | 0.331 | 0.340 |       | 0.325 | 5.90  |
| 118) | naphthalene                 |       |       |       |       |       |       |       |       |       |       |       |
|      | 2.914                       | 2.876 | 3.008 | 3.157 | 3.042 | 2.848 | 2.902 | 3.000 | 2.820 | 3.085 | 2.965 | 3.72  |
| 119) | 1,2,3-trichlorobenzene      |       |       |       |       |       |       |       |       |       |       |       |
|      | 0.804                       | 0.755 | 0.767 | 0.773 | 0.726 | 0.774 | 0.702 | 0.756 | 0.754 | 0.574 | 0.739 | 8.70  |
| 120) | hexachloroethane            |       |       |       |       |       |       |       |       |       |       |       |
|      | 0.412                       |       | 0.433 | 0.451 | 0.445 | 0.397 | 0.440 | 0.421 | 0.386 |       | 0.423 | 5.53  |
| 121) | benzyl chloride             |       |       |       |       |       |       |       |       |       |       |       |
|      | 0.302                       | 0.273 | 0.300 | 0.350 | 0.347 | 0.269 | 0.341 | 0.328 | 0.292 |       | 0.311 | 10.02 |
| 122) | 2-methylnaphthalene         |       |       |       |       |       |       |       |       |       |       |       |
|      | 1.434                       |       | 1.382 | 1.552 | 1.467 | 1.223 | 1.422 | 1.428 | 1.298 |       | 1.401 | 7.23  |

-----  
(#) = Out of Range    ###    Number of calibration levels exceeded format    ###

M1K11.M

Mon Oct 17 17:54:24 2022    RPT1

## Initial Calibration Verification

Page 1 of 3

Job Number: JD54605

Sample: V1K11-ICV11

Account: FLSNYNY Fleming-Lee Shue, Inc.

Lab FileID: 1K00280.D

Project: Info Tech High School, 21-16 44th Road, Long Island City, NY

## Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\vk11\1k00280.d

Vial: 14

Acq On : 17 Oct 2022 12:38 am

Operator: PrashanS

Sample : ICV11-50

Inst : GCMS K

Misc : MS62894,V1K0011,5,,,,,1

Multiplr: 1.00

MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\M1K11.M (RTE Integrator)

Title : SW-846 Method 8260D, column Rtx-VMS 20m x 0.18 id x 1.0 um

Last Update : Mon Oct 17 15:20:12 2022

Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min

Max. RRF Dev : 30% Max. Rel. Area : 200%

|      | Compound                 | AvgRF | CCRF  | %Dev   | Area% | Dev(min) | R.T. |
|------|--------------------------|-------|-------|--------|-------|----------|------|
| 1 I  | tert butyl alcohol-d9    | 1.000 | 1.000 | 0.0    | 103   | 0.00     | 2.25 |
| 2    | ethanol                  | 0.135 | 0.133 | 1.5    | 108   | 0.00     | 1.84 |
| 3 M  | tertiary butyl alcohol   | 1.332 | 1.450 | -8.9   | 109   | 0.00     | 2.28 |
| 4    | 1,4-dioxane              | 0.067 | 0.076 | -13.4  | 110   | 0.00     | 3.93 |
| 5 I  | pentafluorobenzene       | 1.000 | 1.000 | 0.0    | 101   | 0.00     | 3.21 |
| 6    | chlorodifluoromethane    |       |       | NA     |       |          |      |
| 7    | dichlorodifluoromethane  | 0.655 | 0.640 | 2.3    | 93    | 0.00     | 1.21 |
| 8    | chloromethane            | 1.001 | 0.997 | 0.4    | 101   | 0.00     | 1.32 |
| 9    | vinyl chloride           | 0.824 | 0.823 | 0.1    | 98    | 0.00     | 1.36 |
| 10   | 1,3-butadiene            | 0.617 | 0.891 | -44.4# | 143   | 0.00     | 1.37 |
| 11   | bromomethane             | 0.205 | 0.215 | -4.9   | 100   | 0.00     | 1.52 |
| 12   | chloroethane             | 0.463 | 0.439 | 5.2    | 103   | 0.00     | 1.58 |
| 13   | trichlorofluoromethane   | 0.621 | 0.633 | -1.9   | 95    | 0.00     | 1.64 |
| 14   | ethyl ether              | 0.287 | 0.323 | -12.5  | 107   | 0.00     | 1.78 |
| 15   | acrolein                 | 0.193 | 0.227 | -17.6  | 106   | 0.00     | 2.04 |
| 16   | freon 113                | 0.267 | 0.269 | -0.7   | 94    | 0.00     | 1.90 |
| 17   | 1,1-dichloroethene       | 0.828 | 0.847 | -2.3   | 100   | 0.00     | 1.89 |
| 18   | acetone                  | 0.167 | 0.148 | 11.4   | 87    | 0.00     | 2.17 |
| 19   | acetonitrile             |       |       | NA     |       |          |      |
| 20   | iodomethane              | 0.300 | 0.383 | -27.7  | 114   | 0.00     | 1.97 |
| 21   | carbon disulfide         | 1.236 | 1.324 | -7.1   | 108   | 0.00     | 1.92 |
| 22   | methylene chloride       | 0.430 | 0.464 | -7.9   | 102   | 0.00     | 2.15 |
| 23   | methyl acetate           | 0.203 | 0.204 | -0.5   | 102   | 0.00     | 2.21 |
| 24   | methyl tert butyl ether  | 1.455 | 1.626 | -11.8  | 105   | 0.00     | 2.26 |
| 25   | trans-1,2-dichloroethene | 0.922 | 0.855 | 7.3    | 101   | 0.00     | 2.23 |
| 26   | hexane                   | 1.708 | 1.736 | -1.6   | 101   | 0.00     | 2.26 |
| 27   | di-isopropyl ether       | 2.680 | 2.807 | -4.7   | 102   | 0.00     | 2.43 |
| 28   | ethyl tert-butyl ether   | 2.039 | 2.199 | -7.8   | 102   | 0.00     | 2.60 |
| 29   | 2-butanone               | 0.138 | 0.147 | -6.5   | 102   | 0.00     | 3.04 |
| 30 M | 1,1-dichloroethane       | 1.044 | 1.104 | -5.7   | 103   | 0.00     | 2.52 |
| 31   | chloroprene              | 1.124 | 1.213 | -7.9   | 105   | 0.00     | 2.50 |
| 32   | acrylonitrile            |       |       | NA     |       |          |      |
| 33   | vinyl acetate            | 0.084 | 0.083 | 1.2    | 91    | 0.00     | 2.60 |
| 34   | ethyl acetate            | 0.089 | 0.106 | -19.1  | 107   | 0.00     | 2.93 |
| 35   | 2,2-dichloropropane      | 0.649 | 0.668 | -2.9   | 99    | 0.00     | 2.83 |
| 36   | cis-1,2-dichloroethene   | 0.441 | 0.470 | -6.6   | 105   | 0.00     | 2.77 |
| 37   | propionitrile            | 0.225 | 0.224 | 0.4    | 98    | 0.00     | 3.20 |
| 38   | methyl acrylate          | 0.146 | 0.145 | 0.7    | 97    | 0.00     | 2.94 |
| 39   | bromochloromethane       | 0.171 | 0.169 | 1.2    | 98    | 0.00     | 2.88 |
| 40   | tetrahydrofuran          | 0.121 | 0.128 | -5.8   | 104   | 0.00     | 2.98 |
| 41   | chloroform               | 0.336 | 0.357 | -6.2   | 108   | 0.00     | 2.89 |

# Initial Calibration Verification

Page 2 of 3

Job Number: JD54605

Sample: V1K11-ICV11

Account: FLSNYYNY Fleming-Lee Shue, Inc.

Lab FileID: 1K00280.D

Project: Info Tech High School, 21-16 44th Road, Long Island City, NY

|    |   |                           |       |       |              |     |      |      |
|----|---|---------------------------|-------|-------|--------------|-----|------|------|
| 42 | S | dibromofluoromethane (s)  | 0.464 | 0.469 | -1.1         | 102 | 0.00 | 2.99 |
| 43 |   | methacrylonitrile         | 0.380 | 0.392 | -3.2         | 107 | 0.00 | 3.21 |
| 44 |   | 1,1,1-trichloroethane     | 0.630 | 0.695 | -10.3        | 104 | 0.00 | 3.01 |
| 45 |   | cyclohexane               | 0.795 | 0.854 | -7.4         | 104 | 0.00 | 2.89 |
| 46 |   | 1,1-dichloropropene       | 0.649 | 0.716 | -10.3        | 103 | 0.00 | 3.07 |
| 47 |   | carbon tetrachloride      | 0.572 | 0.562 | 1.7          | 100 | 0.00 | 2.98 |
| 48 |   | isobutyl alcohol          | 0.150 | 0.157 | -4.7         | 101 | 0.00 | 3.24 |
| 49 |   | tert-amyl alcohol         | 0.074 | 0.078 | -5.4         | 103 | 0.00 | 3.31 |
|    |   |                           |       |       |              |     |      |      |
| 50 | I | 1,4-difluorobenzene       | 1.000 | 1.000 | 0.0          | 101 | 0.00 | 3.51 |
| 51 | S | 1,2-dichloroethane-d4 (s) | 0.439 | 0.432 | 1.6          | 99  | 0.00 | 3.26 |
| 52 |   | iso-octane                | 1.810 | 1.633 | 9.8          | 91  | 0.00 | 3.12 |
| 53 | M | benzene                   | 1.236 | 1.266 | -2.4         | 104 | 0.00 | 3.20 |
| 54 |   | tert-amyl methyl ether    | 0.981 | 0.979 | 0.2          | 101 | 0.00 | 3.24 |
| 55 |   | heptane                   | 0.263 | 0.305 | -16.0        | 107 | 0.00 | 3.16 |
| 56 |   | isopropyl acetate         | 0.093 | 0.106 | -14.0        | 109 | 0.00 | 3.39 |
| 57 |   | 1,2-dichloroethane        | 0.460 | 0.464 | -0.9         | 103 | 0.00 | 3.30 |
| 58 |   | n-butyl alcohol           | 0.031 | 0.035 | -12.9        | 107 | 0.00 | 3.63 |
| 59 |   | ethyl acrylate            | 0.742 | 0.836 | -12.7        | 104 | 0.00 | 3.77 |
| 60 |   | trichloroethene           | 0.249 | 0.263 | -5.6         | 105 | 0.00 | 3.51 |
| 61 |   | 2-nitropropane            | 0.212 | 0.235 | -10.8        | 114 | 0.00 | 4.47 |
| 62 |   | 2-chloroethyl vinyl ether | 0.270 | 0.244 | 9.6          | 85  | 0.00 | 4.14 |
| 63 |   | methyl methacrylate       | 0.104 | 0.120 | -15.4        | 111 | 0.00 | 3.89 |
| 64 |   | 1,2-dichloropropane       | 0.372 | 0.391 | -5.1         | 103 | 0.00 | 3.79 |
| 65 |   | methylcyclohexane         | 0.672 | 0.646 | 3.9          | 103 | 0.00 | 3.51 |
| 66 |   | dibromomethane            | 0.165 | 0.170 | -3.0         | 104 | 0.00 | 3.74 |
| 67 |   | bromodichloromethane      | 0.346 | 0.373 | -7.8         | 102 | 0.00 | 3.82 |
| 68 |   | epichlorohydrin           | 0.084 | 0.085 | -1.2         | 98  | 0.00 | 4.33 |
| 69 |   | cis-1,3-dichloropropene   | 0.489 | 0.506 | -3.5         | 102 | 0.00 | 4.19 |
| 70 |   | 4-methyl-2-pentanone      | 0.278 | 0.300 | -7.9         | 102 | 0.00 | 4.55 |
| 71 |   | 3-methyl-1-butanol        | 0.021 | 0.025 | -19.0        | 108 | 0.00 | 4.40 |
|    |   |                           |       |       |              |     |      |      |
| 72 | I | chlorobenzene-d5          | 1.000 | 1.000 | 0.0          | 100 | 0.00 | 5.32 |
| 73 | S | toluene-d8 (s)            | 1.453 | 1.457 | -0.3         | 100 | 0.00 | 4.30 |
| 74 |   | toluene                   | 0.803 | 0.844 | -5.1         | 104 | 0.00 | 4.33 |
| 75 |   | ethyl methacrylate        | 0.507 | 0.546 | -7.7         | 99  | 0.00 | 4.67 |
| 76 |   | trans-1,3-dichloropropene | 0.492 | 0.536 | -8.9         | 103 | 0.00 | 4.59 |
| 77 |   | 1,1,2-trichloroethane     | 0.237 | 0.251 | -5.9         | 105 | 0.00 | 4.69 |
| 78 |   | tetrachloroethene         |       |       | -----NA----- |     |      |      |
| 79 |   | 2-hexanone                | 0.349 | 0.382 | -9.5         | 100 | 0.00 | 5.10 |
| 80 |   | 1,3-dichloropropane       | 0.554 | 0.590 | -6.5         | 103 | 0.00 | 4.87 |
| 81 |   | butyl acetate             | 0.421 | 0.518 | -23.0        | 112 | 0.00 | 5.03 |
| 82 |   | dibromochloromethane      | 0.265 | 0.284 | -7.2         | 102 | 0.00 | 4.81 |
| 83 |   | 1,2-dibromoethane         | 0.272 | 0.291 | -7.0         | 103 | 0.00 | 4.98 |
| 84 |   | n-butyl ether             | 2.178 | 2.325 | -6.7         | 100 | 0.00 | 5.24 |
| 85 |   | chlorobenzene             | 0.761 | 0.791 | -3.9         | 103 | 0.00 | 5.33 |
| 86 |   | 1,1,1,2-tetrachloroethane | 0.230 | 0.264 | -14.8        | 104 | 0.00 | 5.37 |
| 87 |   | ethylbenzene              | 1.531 | 1.609 | -5.1         | 104 | 0.00 | 5.34 |
| 88 |   | m,p-xylene                | 0.542 | 0.573 | -5.7         | 105 | 0.00 | 5.44 |
| 89 |   | o-xylene                  | 0.522 | 0.569 | -9.0         | 104 | 0.00 | 5.75 |
| 90 |   | styrene                   | 0.860 | 0.963 | -12.0        | 104 | 0.00 | 5.79 |
| 91 |   | bromoform                 | 0.191 | 0.213 | -11.5        | 102 | 0.00 | 5.81 |
| 92 |   | butyl acrylate            | 0.981 | 1.166 | -18.9        | 108 | 0.00 | 5.87 |
| 93 |   | isopropylbenzene          | 1.402 | 1.532 | -9.3         | 104 | 0.00 | 5.98 |
| 94 |   | cis-1,4-dichloro-2-butene | 0.194 | 0.203 | -4.6         | 92  | 0.00 | 6.23 |
|    |   |                           |       |       |              |     |      |      |
| 95 | I | 1,4-dichlorobenzene-d4    | 1.000 | 1.000 | 0.0          | 99  | 0.00 | 7.03 |
| 96 | S | 4-bromofluorobenzene (s)  | 1.141 | 1.150 | -0.8         | 102 | 0.00 | 6.19 |
| 97 |   | bromobenzene              | 0.603 | 0.655 | -8.6         | 105 | 0.00 | 6.27 |
| 98 |   | 1,1,2,2-tetrachloroethane | 0.985 | 1.039 | -5.5         | 104 | 0.00 | 6.33 |

# Initial Calibration Verification

Page 3 of 3

**Job Number:** JD54605

**Sample:** V1K11-ICV11

**Account:** FLSNYYNY Fleming-Lee Shue, Inc.

**Lab FileID:** 1K00280.D

**Project:** Info Tech High School, 21-16 44th Road, Long Island City, NY

|     |                           |       |       |              |     |      |      |
|-----|---------------------------|-------|-------|--------------|-----|------|------|
| 99  | trans-1,4-dichloro-2-bute | 0.552 | 0.596 | -8.0         | 103 | 0.00 | 6.47 |
| 100 | 1,2,3-trichloropropane    | 0.287 | 0.317 | -10.5        | 101 | 0.00 | 6.44 |
| 101 | n-propylbenzene           | 3.901 | 4.185 | -7.3         | 104 | 0.00 | 6.28 |
| 102 | 2-chlorotoluene           | 0.627 | 0.677 | -8.0         | 105 | 0.00 | 6.41 |
| 103 | 4-chlorotoluene           | 2.363 | 2.503 | -5.9         | 105 | 0.00 | 6.54 |
| 104 | 1,3,5-trimethylbenzene    | 2.548 | 2.776 | -8.9         | 105 | 0.00 | 6.44 |
| 105 | tert-butylbenzene         | 2.044 | 2.258 | -10.5        | 105 | 0.00 | 6.68 |
| 106 | 1,2,4-trimethylbenzene    | 2.588 | 2.836 | -9.6         | 103 | 0.00 | 6.74 |
| 107 | sec-butylbenzene          | 3.265 | 3.568 | -9.3         | 102 | 0.00 | 6.82 |
| 108 | 1,3-dichlorobenzene       | 1.240 | 1.325 | -6.9         | 103 | 0.00 | 6.98 |
| 109 | p-isopropyltoluene        | 2.499 | 2.766 | -10.7        | 103 | 0.00 | 6.92 |
| 110 | 1,4-dichlorobenzene       | 1.230 | 1.315 | -6.9         | 103 | 0.00 | 7.05 |
| 111 | 1,2-dichlorobenzene       | 1.209 | 1.260 | -4.2         | 102 | 0.00 | 7.35 |
| 112 | 1,2,3-trimethylbenzene    |       |       | -----NA----- |     |      |      |
| 113 | n-butylbenzene            | 1.593 | 1.748 | -9.7         | 101 | 0.00 | 7.24 |
| 114 | 1,2-dibromo-3-chloropropa | 0.275 | 0.312 | -13.5        | 103 | 0.00 | 7.91 |
| 115 | 1,3,5-trichlorobenzene    | 0.897 | 0.942 | -5.0         | 103 | 0.00 | 7.94 |
| 116 | 1,2,4-trichlorobenzene    | 0.755 | 0.821 | -8.7         | 103 | 0.00 | 8.37 |
| 117 | hexachlorobutadiene       | 0.325 | 0.351 | -8.0         | 101 | 0.00 | 8.35 |
| 118 | naphthalene               | 2.965 | 3.269 | -10.3        | 102 | 0.00 | 8.58 |
| 119 | 1,2,3-trichlorobenzene    | 0.739 | 0.812 | -9.9         | 104 | 0.00 | 8.70 |
| 120 | hexachloroethane          | 0.423 | 0.470 | -11.1        | 103 | 0.00 | 7.34 |
| 121 | benzyl chloride           | 0.311 | 0.345 | -10.9        | 97  | 0.00 | 7.23 |
| 122 | 2-methylnaphthalene       | 1.401 | 1.587 | -13.3        | 101 | 0.00 | 9.24 |

(#) = Out of Range  
1K00270.D M1K11.M

SPCC's out = 0 CCC's out = 0  
Mon Oct 17 17:54:10 2022 RPT1

## Initial Calibration Verification

Page 1 of 3

Job Number: JD54605

Sample: V1K11-ICV11

Account: FLSNYYNY Fleming-Lee Shue, Inc.

Lab FileID: 1K00282.D

Project: Info Tech High School, 21-16 44th Road, Long Island City, NY

## Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\vk11\1k00282.d

Vial: 15

Acq On : 17 Oct 2022 1:10 am

Operator: PrashanS

Sample : ICV11-50

Inst : GCMS K

Misc : MS62894,V1K0011,5,,,,,1

Multiplr: 1.00

MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\M1K11.M (RTE Integrator)

Title : SW-846 Method 8260D, column Rtx-VMS 20m x 0.18 id x 1.0 um

Last Update : Mon Oct 17 15:20:12 2022

Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min

Max. RRF Dev : 30% Max. Rel. Area : 200%

|      | Compound                 | AvgRF | CCRF  | %Dev | Area% | Dev(min) | R.T. |
|------|--------------------------|-------|-------|------|-------|----------|------|
| 1 I  | tert butyl alcohol-d9    | 1.000 | 1.000 | 0.0  | 100   | 0.00     | 2.25 |
| 2    | ethanol                  |       |       | NA   |       |          |      |
| 3 M  | tertiary butyl alcohol   |       |       | NA   |       |          |      |
| 4    | 1,4-dioxane              |       |       | NA   |       |          |      |
| 5 I  | pentafluorobenzene       | 1.000 | 1.000 | 0.0  | 102   | 0.00     | 3.21 |
| 6    | chlorodifluoromethane    | 0.972 | 1.056 | -8.6 | 108   | 0.00     | 1.23 |
| 7    | dichlorodifluoromethane  |       |       | NA   |       |          |      |
| 8    | chloromethane            |       |       | NA   |       |          |      |
| 9    | vinyl chloride           |       |       | NA   |       |          |      |
| 10   | 1,3-butadiene            |       |       | NA   |       |          |      |
| 11   | bromomethane             |       |       | NA   |       |          |      |
| 12   | chloroethane             |       |       | NA   |       |          |      |
| 13   | trichlorofluoromethane   |       |       | NA   |       |          |      |
| 14   | ethyl ether              |       |       | NA   |       |          |      |
| 15   | acrolein                 |       |       | NA   |       |          |      |
| 16   | freon 113                |       |       | NA   |       |          |      |
| 17   | 1,1-dichloroethene       |       |       | NA   |       |          |      |
| 18   | acetone                  |       |       | NA   |       |          |      |
| 19   | acetonitrile             | 0.260 | 0.195 | 25.0 | 77    | 0.00     | 2.39 |
| 20   | iodomethane              |       |       | NA   |       |          |      |
| 21   | carbon disulfide         |       |       | NA   |       |          |      |
| 22   | methylene chloride       |       |       | NA   |       |          |      |
| 23   | methyl acetate           |       |       | NA   |       |          |      |
| 24   | methyl tert butyl ether  |       |       | NA   |       |          |      |
| 25   | trans-1,2-dichloroethene |       |       | NA   |       |          |      |
| 26   | hexane                   |       |       | NA   |       |          |      |
| 27   | di-isopropyl ether       |       |       | NA   |       |          |      |
| 28   | ethyl tert-butyl ether   |       |       | NA   |       |          |      |
| 29   | 2-butanone               |       |       | NA   |       |          |      |
| 30 M | 1,1-dichloroethane       |       |       | NA   |       |          |      |
| 31   | chloroprene              |       |       | NA   |       |          |      |
| 32   | acrylonitrile            | 0.397 | 0.355 | 10.6 | 84    | 0.00     | 2.54 |
| 33   | vinyl acetate            |       |       | NA   |       |          |      |
| 34   | ethyl acetate            |       |       | NA   |       |          |      |
| 35   | 2,2-dichloropropane      |       |       | NA   |       |          |      |
| 36   | cis-1,2-dichloroethene   |       |       | NA   |       |          |      |
| 37   | propionitrile            |       |       | NA   |       |          |      |
| 38   | methyl acrylate          |       |       | NA   |       |          |      |
| 39   | bromochloromethane       |       |       | NA   |       |          |      |
| 40   | tetrahydrofuran          |       |       | NA   |       |          |      |
| 41   | chloroform               |       |       | NA   |       |          |      |

## Initial Calibration Verification

Page 2 of 3

Job Number: JD54605

Sample: V1K11-ICV11

Account: FLSNYYNY Fleming-Lee Shue, Inc.

Lab FileID: 1K00282.D

Project: Info Tech High School, 21-16 44th Road, Long Island City, NY

|    |   |                           |       |              |      |     |      |      |
|----|---|---------------------------|-------|--------------|------|-----|------|------|
| 42 | S | dibromofluoromethane (s)  | 0.464 | 0.471        | -1.5 | 104 | 0.00 | 2.99 |
| 43 |   | methacrylonitrile         |       | -----NA----- |      |     |      |      |
| 44 |   | 1,1,1-trichloroethane     |       | -----NA----- |      |     |      |      |
| 45 |   | cyclohexane               |       | -----NA----- |      |     |      |      |
| 46 |   | 1,1-dichloropropene       |       | -----NA----- |      |     |      |      |
| 47 |   | carbon tetrachloride      |       | -----NA----- |      |     |      |      |
| 48 |   | isobutyl alcohol          |       | -----NA----- |      |     |      |      |
| 49 |   | tert-amyl alcohol         |       | -----NA----- |      |     |      |      |
| 50 | I | 1,4-difluorobenzene       | 1.000 | 1.000        | 0.0  | 99  | 0.00 | 3.51 |
| 51 | S | 1,2-dichloroethane-d4 (s) | 0.439 | 0.436        | 0.7  | 99  | 0.00 | 3.26 |
| 52 |   | iso-octane                |       | -----NA----- |      |     |      |      |
| 53 | M | benzene                   |       | -----NA----- |      |     |      |      |
| 54 |   | tert-amyl methyl ether    |       | -----NA----- |      |     |      |      |
| 55 |   | heptane                   |       | -----NA----- |      |     |      |      |
| 56 |   | isopropyl acetate         |       | -----NA----- |      |     |      |      |
| 57 |   | 1,2-dichloroethane        |       | -----NA----- |      |     |      |      |
| 58 |   | n-butyl alcohol           |       | -----NA----- |      |     |      |      |
| 59 |   | ethyl acrylate            |       | -----NA----- |      |     |      |      |
| 60 |   | trichloroethene           |       | -----NA----- |      |     |      |      |
| 61 |   | 2-nitropropane            |       | -----NA----- |      |     |      |      |
| 62 |   | 2-chloroethyl vinyl ether |       | -----NA----- |      |     |      |      |
| 63 |   | methyl methacrylate       |       | -----NA----- |      |     |      |      |
| 64 |   | 1,2-dichloropropane       |       | -----NA----- |      |     |      |      |
| 65 |   | methylcyclohexane         |       | -----NA----- |      |     |      |      |
| 66 |   | dibromomethane            |       | -----NA----- |      |     |      |      |
| 67 |   | bromodichloromethane      |       | -----NA----- |      |     |      |      |
| 68 |   | epichlorohydrin           |       | -----NA----- |      |     |      |      |
| 69 |   | cis-1,3-dichloropropene   |       | -----NA----- |      |     |      |      |
| 70 |   | 4-methyl-2-pentanone      |       | -----NA----- |      |     |      |      |
| 71 |   | 3-methyl-1-butanol        |       | -----NA----- |      |     |      |      |
| 72 | I | chlorobenzene-d5          | 1.000 | 1.000        | 0.0  | 98  | 0.00 | 5.32 |
| 73 | S | toluene-d8 (s)            | 1.453 | 1.448        | 0.3  | 98  | 0.00 | 4.30 |
| 74 |   | toluene                   |       | -----NA----- |      |     |      |      |
| 75 |   | ethyl methacrylate        |       | -----NA----- |      |     |      |      |
| 76 |   | trans-1,3-dichloropropene |       | -----NA----- |      |     |      |      |
| 77 |   | 1,1,2-trichloroethane     |       | -----NA----- |      |     |      |      |
| 78 |   | tetrachloroethene         | 0.256 | 0.265        | -3.5 | 100 | 0.00 | 4.59 |
| 79 |   | 2-hexanone                |       | -----NA----- |      |     |      |      |
| 80 |   | 1,3-dichloropropane       |       | -----NA----- |      |     |      |      |
| 81 |   | butyl acetate             |       | -----NA----- |      |     |      |      |
| 82 |   | dibromochloromethane      |       | -----NA----- |      |     |      |      |
| 83 |   | 1,2-dibromoethane         |       | -----NA----- |      |     |      |      |
| 84 |   | n-butyl ether             |       | -----NA----- |      |     |      |      |
| 85 |   | chlorobenzene             |       | -----NA----- |      |     |      |      |
| 86 |   | 1,1,1,2-tetrachloroethane |       | -----NA----- |      |     |      |      |
| 87 |   | ethylbenzene              |       | -----NA----- |      |     |      |      |
| 88 |   | m,p-xylene                |       | -----NA----- |      |     |      |      |
| 89 |   | o-xylene                  |       | -----NA----- |      |     |      |      |
| 90 |   | styrene                   |       | -----NA----- |      |     |      |      |
| 91 |   | bromoform                 |       | -----NA----- |      |     |      |      |
| 92 |   | butyl acrylate            |       | -----NA----- |      |     |      |      |
| 93 |   | isopropylbenzene          |       | -----NA----- |      |     |      |      |
| 94 |   | cis-1,4-dichloro-2-butene |       | -----NA----- |      |     |      |      |
| 95 | I | 1,4-dichlorobenzene-d4    | 1.000 | 1.000        | 0.0  | 96  | 0.00 | 7.03 |
| 96 | S | 4-bromofluorobenzene (s)  | 1.141 | 1.157        | -1.4 | 100 | 0.00 | 6.19 |
| 97 |   | bromobenzene              |       | -----NA----- |      |     |      |      |
| 98 |   | 1,1,2,2-tetrachloroethane |       | -----NA----- |      |     |      |      |

6.7.3

6



## Initial Calibration Verification

Page 3 of 3

Job Number: JD54605

Sample: V1K11-ICV11

Account: FLSNYYNY Fleming-Lee Shue, Inc.

Lab FileID: 1K00282.D

Project: Info Tech High School, 21-16 44th Road, Long Island City, NY

|     |                           |       |       |       |     |      |      |  |              |
|-----|---------------------------|-------|-------|-------|-----|------|------|--|--------------|
| 99  | trans-1,4-dichloro-2-bute |       |       |       |     |      |      |  | -----NA----- |
| 100 | 1,2,3-trichloropropane    |       |       |       |     |      |      |  | -----NA----- |
| 101 | n-propylbenzene           |       |       |       |     |      |      |  | -----NA----- |
| 102 | 2-chlorotoluene           |       |       |       |     |      |      |  | -----NA----- |
| 103 | 4-chlorotoluene           |       |       |       |     |      |      |  | -----NA----- |
| 104 | 1,3,5-trimethylbenzene    |       |       |       |     |      |      |  | -----NA----- |
| 105 | tert-butylbenzene         |       |       |       |     |      |      |  | -----NA----- |
| 106 | 1,2,4-trimethylbenzene    |       |       |       |     |      |      |  | -----NA----- |
| 107 | sec-butylbenzene          |       |       |       |     |      |      |  | -----NA----- |
| 108 | 1,3-dichlorobenzene       |       |       |       |     |      |      |  | -----NA----- |
| 109 | p-isopropyltoluene        |       |       |       |     |      |      |  | -----NA----- |
| 110 | 1,4-dichlorobenzene       |       |       |       |     |      |      |  | -----NA----- |
| 111 | 1,2-dichlorobenzene       |       |       |       |     |      |      |  | -----NA----- |
| 112 | 1,2,3-trimethylbenzene    | 2.698 | 3.093 | -14.6 | 109 | 0.00 | 7.07 |  |              |
| 113 | n-butylbenzene            |       |       |       |     |      |      |  | -----NA----- |
| 114 | 1,2-dibromo-3-chloropropa |       |       |       |     |      |      |  | -----NA----- |
| 115 | 1,3,5-trichlorobenzene    |       |       |       |     |      |      |  | -----NA----- |
| 116 | 1,2,4-trichlorobenzene    |       |       |       |     |      |      |  | -----NA----- |
| 117 | hexachlorobutadiene       |       |       |       |     |      |      |  | -----NA----- |
| 118 | naphthalene               |       |       |       |     |      |      |  | -----NA----- |
| 119 | 1,2,3-trichlorobenzene    |       |       |       |     |      |      |  | -----NA----- |
| 120 | hexachloroethane          |       |       |       |     |      |      |  | -----NA----- |
| 121 | benzyl chloride           |       |       |       |     |      |      |  | -----NA----- |
| 122 | 2-methylnaphthalene       |       |       |       |     |      |      |  | -----NA----- |

(#) = Out of Range  
1K00270.D M1K11.M

SPCC's out = 0 CCC's out = 0  
Mon Oct 17 17:54:12 2022 RPT1

## Continuing Calibration Summary

Page 1 of 3

Job Number: JD54605

Sample: V1K38-CC11

Account: FLSNYYNY Fleming-Lee Shue, Inc.

Lab FileID: 1K01224.D

Project: Info Tech High School, 21-16 44th Road, Long Island City, NY

## Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\re...03-22\v1k38\1k01224.d Vial: 3  
 Acq On : 2 Nov 2022 8:49 am Operator: taylors  
 Sample : CC11-20 Inst : GCMS K  
 Misc : MS63534,V1K0038,5,,,,,1 Multiplr: 1.00  
 MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\M1K11.M (RTE Integrator)  
 Title : SW-846 Method 8260D, column Rtx-VMS 20m x 0.18 id x 1.0 um  
 Last Update : Mon Oct 17 15:20:12 2022  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

|      | Compound                 | AvgRF | CCRF  | %Dev   | Area% | Dev(min) | R.T. |
|------|--------------------------|-------|-------|--------|-------|----------|------|
| 1 I  | tert butyl alcohol-d9    | 1.000 | 1.000 | 0.0    | 149   | 0.00     | 2.25 |
| 2    | ethanol                  | 0.135 | 0.126 | 6.7    | 147   | 0.00     | 1.84 |
| 3 M  | tertiary butyl alcohol   | 1.332 | 1.218 | 8.6    | 138   | 0.00     | 2.28 |
| 4    | 1,4-dioxane              | 0.067 | 0.067 | 0.0    | 142   | 0.00     | 3.94 |
| 5 I  | pentafluorobenzene       | 1.000 | 1.000 | 0.0    | 132   | 0.00     | 3.21 |
| 6    | chlorodifluoromethane    | 0.972 | 0.858 | 11.7   | 116   | 0.00     | 1.24 |
| 7    | dichlorodifluoromethane  | 0.655 | 0.654 | 0.2    | 131   | 0.00     | 1.21 |
| 8    | chloromethane            | 1.001 | 0.959 | 4.2    | 131   | 0.00     | 1.32 |
| 9    | vinyl chloride           | 0.824 | 0.772 | 6.3    | 126   | 0.00     | 1.36 |
| 10   | 1,3-butadiene            | 0.617 | 0.601 | 2.6    | 129   | 0.00     | 1.37 |
| 11   | bromomethane             | 0.205 | 0.277 | -35.1# | 187   | 0.00     | 1.52 |
| 12   | chloroethane             | 0.463 | 0.487 | -5.2   | 150   | 0.00     | 1.59 |
| 13   | trichlorofluoromethane   | 0.621 | 0.597 | 3.9    | 125   | 0.00     | 1.65 |
| 14   | ethyl ether              | 0.287 | 0.290 | -1.0   | 128   | 0.01     | 1.79 |
| 15   | acrolein                 | 0.193 | 0.226 | -17.1  | 157   | 0.00     | 2.04 |
| 16   | freon 113                | 0.267 | 0.229 | 14.2   | 116   | 0.00     | 1.90 |
| 17   | 1,1-dichloroethene       | 0.828 | 0.723 | 12.7   | 119   | 0.01     | 1.90 |
| 18   | acetone                  | 0.167 | 0.132 | 21.0#  | 103   | 0.00     | 2.17 |
| 19   | acetonitrile             | 0.260 | 0.195 | 25.0#  | 99    | 0.00     | 2.39 |
| 20   | iodomethane              | 0.300 | 0.169 | 43.7#  | 84    | 0.01     | 1.98 |
| 21   | carbon disulfide         | 1.236 | 1.077 | 12.9   | 119   | 0.00     | 1.93 |
| 22   | methylene chloride       | 0.430 | 0.406 | 5.6    | 128   | 0.01     | 2.16 |
| 23   | methyl acetate           | 0.203 | 0.158 | 22.2#  | 100   | 0.00     | 2.22 |
| 24   | methyl tert butyl ether  | 1.455 | 1.426 | 2.0    | 130   | 0.00     | 2.27 |
| 25   | trans-1,2-dichloroethene | 0.922 | 0.772 | 16.3   | 121   | 0.00     | 2.23 |
| 26   | hexane                   | 1.708 | 1.557 | 8.8    | 123   | 0.00     | 2.26 |
| 27   | di-isopropyl ether       | 2.680 | 2.481 | 7.4    | 120   | 0.00     | 2.43 |
| 28   | ethyl tert-butyl ether   | 2.039 | 1.989 | 2.5    | 124   | 0.00     | 2.60 |
| 29   | 2-butanone               | 0.138 | 0.130 | 5.8    | 117   | 0.00     | 3.04 |
| 30 M | 1,1-dichloroethane       | 1.044 | 0.981 | 6.0    | 122   | 0.00     | 2.52 |
| 31   | chloroprene              | 1.124 | 1.080 | 3.9    | 120   | 0.00     | 2.51 |
| 32   | acrylonitrile            | 0.397 | 0.386 | 2.8    | 125   | 0.00     | 2.54 |
| 33   | vinyl acetate            | 0.084 | 0.124 | -47.6# | 206#  | 0.00     | 2.61 |
| 34   | ethyl acetate            | 0.089 | 0.096 | -7.9   | 139   | 0.00     | 2.93 |
| 35   | 2,2-dichloropropane      | 0.649 | 0.652 | -0.5   | 136   | 0.00     | 2.83 |
| 36   | cis-1,2-dichloroethene   | 0.441 | 0.401 | 9.1    | 122   | 0.00     | 2.78 |
| 37   | propionitrile            | 0.225 | 0.217 | 3.6    | 129   | 0.00     | 3.20 |
| 38   | methyl acrylate          | 0.146 | 0.125 | 14.4   | 109   | 0.00     | 2.95 |
| 39   | bromochloromethane       | 0.171 | 0.163 | 4.7    | 118   | 0.00     | 2.88 |
| 40   | tetrahydrofuran          | 0.121 | 0.121 | 0.0    | 140   | 0.00     | 2.99 |
| 41   | chloroform               | 0.336 | 0.300 | 10.7   | 116   | 0.00     | 2.90 |

# Continuing Calibration Summary

Job Number: JD54605

Sample: V1K38-CC11

Account: FLSNYYNY Fleming-Lee Shue, Inc.

Lab FileID: 1K01224.D

Project: Info Tech High School, 21-16 44th Road, Long Island City, NY

|    |   |                           |       |       |       |     |      |      |
|----|---|---------------------------|-------|-------|-------|-----|------|------|
| 42 | S | dibromofluoromethane (s)  | 0.464 | 0.473 | -1.9  | 132 | 0.00 | 2.99 |
| 43 |   | methacrylonitrile         | 0.380 | 0.362 | 4.7   | 132 | 0.00 | 3.21 |
| 44 |   | 1,1,1-trichloroethane     | 0.630 | 0.605 | 4.0   | 123 | 0.00 | 3.02 |
| 45 |   | cyclohexane               | 0.795 | 0.776 | 2.4   | 130 | 0.00 | 2.89 |
| 46 |   | 1,1-dichloropropene       | 0.649 | 0.617 | 4.9   | 123 | 0.01 | 3.08 |
| 47 |   | carbon tetrachloride      | 0.572 | 0.463 | 19.1  | 116 | 0.00 | 2.99 |
| 48 |   | isobutyl alcohol          | 0.150 | 0.157 | -4.7  | 139 | 0.00 | 3.25 |
| 49 |   | tert-amyl alcohol         | 0.074 | 0.078 | -5.4  | 138 | 0.00 | 3.32 |
| 50 | I | 1,4-difluorobenzene       | 1.000 | 1.000 | 0.0   | 134 | 0.00 | 3.51 |
| 51 | S | 1,2-dichloroethane-d4 (s) | 0.439 | 0.458 | -4.3  | 138 | 0.01 | 3.28 |
| 52 |   | iso-octane                | 1.810 | 1.479 | 18.3  | 113 | 0.00 | 3.12 |
| 53 | M | benzene                   | 1.236 | 1.051 | 15.0  | 119 | 0.00 | 3.21 |
| 54 |   | tert-amyl methyl ether    | 0.981 | 0.922 | 6.0   | 130 | 0.00 | 3.24 |
| 55 |   | heptane                   | 0.263 | 0.266 | -1.1  | 128 | 0.01 | 3.17 |
| 56 |   | isopropyl acetate         | 0.093 | 0.095 | -2.2  | 142 | 0.00 | 3.40 |
| 57 |   | 1,2-dichloroethane        | 0.460 | 0.418 | 9.1   | 124 | 0.00 | 3.31 |
| 58 |   | n-butyl alcohol           | 0.031 | 0.034 | -9.7  | 145 | 0.00 | 3.63 |
| 59 |   | ethyl acrylate            | 0.742 | 0.778 | -4.9  | 135 | 0.01 | 3.77 |
| 60 |   | trichloroethene           | 0.249 | 0.195 | 21.7# | 107 | 0.00 | 3.51 |
| 61 |   | 2-nitropropane            | 0.212 | 0.184 | 13.2  | 129 | 0.00 | 4.48 |
| 62 |   | 2-chloroethyl vinyl ether | 0.270 | 0.260 | 3.7   | 125 | 0.00 | 4.14 |
| 63 |   | methyl methacrylate       | 0.104 | 0.096 | 7.7   | 119 | 0.00 | 3.89 |
| 64 |   | 1,2-dichloropropane       | 0.372 | 0.334 | 10.2  | 121 | 0.00 | 3.80 |
| 65 |   | methylcyclohexane         | 0.672 | 0.531 | 21.0# | 114 | 0.00 | 3.52 |
| 66 |   | dibromomethane            | 0.165 | 0.150 | 9.1   | 123 | 0.00 | 3.75 |
| 67 |   | bromodichloromethane      | 0.346 | 0.326 | 5.8   | 124 | 0.00 | 3.83 |
| 68 |   | epichlorohydrin           | 0.084 | 0.086 | -2.4  | 140 | 0.00 | 4.34 |
| 69 |   | cis-1,3-dichloropropene   | 0.489 | 0.456 | 6.7   | 127 | 0.00 | 4.19 |
| 70 |   | 4-methyl-2-pentanone      | 0.278 | 0.272 | 2.2   | 126 | 0.00 | 4.56 |
| 71 |   | 3-methyl-1-butanol        | 0.021 | 0.024 | -14.3 | 143 | 0.00 | 4.40 |
| 72 | I | chlorobenzene-d5          | 1.000 | 1.000 | 0.0   | 131 | 0.01 | 5.33 |
| 73 | S | toluene-d8 (s)            | 1.453 | 1.520 | -4.6  | 138 | 0.01 | 4.31 |
| 74 |   | toluene                   | 0.803 | 0.690 | 14.1  | 118 | 0.00 | 4.34 |
| 75 |   | ethyl methacrylate        | 0.507 | 0.523 | -3.2  | 134 | 0.00 | 4.68 |
| 76 |   | trans-1,3-dichloropropene | 0.492 | 0.504 | -2.4  | 134 | 0.00 | 4.59 |
| 77 |   | 1,1,2-trichloroethane     | 0.237 | 0.221 | 6.8   | 125 | 0.00 | 4.70 |
| 78 |   | tetrachloroethene         | 0.256 | 0.209 | 18.4  | 111 | 0.00 | 4.59 |
| 79 |   | 2-hexanone                | 0.349 | 0.347 | 0.6   | 123 | 0.00 | 5.10 |
| 80 |   | 1,3-dichloropropane       | 0.554 | 0.523 | 5.6   | 125 | 0.00 | 4.88 |
| 81 |   | butyl acetate             | 0.421 | 0.462 | -9.7  | 149 | 0.00 | 5.03 |
| 82 |   | dibromochloromethane      | 0.265 | 0.231 | 12.8  | 117 | 0.00 | 4.82 |
| 83 |   | 1,2-dibromoethane         | 0.272 | 0.251 | 7.7   | 124 | 0.00 | 4.98 |
| 84 |   | n-butyl ether             | 2.178 | 1.987 | 8.8   | 116 | 0.01 | 5.25 |
| 85 |   | chlorobenzene             | 0.761 | 0.667 | 12.4  | 120 | 0.00 | 5.34 |
| 86 |   | 1,1,1,2-tetrachloroethane | 0.230 | 0.205 | 10.9  | 113 | 0.00 | 5.37 |
| 87 |   | ethylbenzene              | 1.531 | 1.314 | 14.2  | 117 | 0.00 | 5.35 |
| 88 |   | m,p-xylene                | 0.542 | 0.460 | 15.1  | 114 | 0.00 | 5.45 |
| 89 |   | o-xylene                  | 0.522 | 0.445 | 14.8  | 112 | 0.00 | 5.76 |
| 90 |   | styrene                   | 0.860 | 0.759 | 11.7  | 116 | 0.00 | 5.79 |
| 91 |   | bromoform                 | 0.191 | 0.170 | 11.0  | 121 | 0.00 | 5.82 |
| 92 |   | butyl acrylate            | 0.981 | 1.087 | -10.8 | 150 | 0.00 | 5.87 |
| 93 |   | isopropylbenzene          | 1.402 | 1.198 | 14.6  | 112 | 0.00 | 5.99 |
| 94 |   | cis-1,4-dichloro-2-butene | 0.194 | 0.178 | 8.2   | 118 | 0.00 | 6.24 |
| 95 | I | 1,4-dichlorobenzene-d4    | 1.000 | 1.000 | 0.0   | 117 | 0.01 | 7.04 |
| 96 | S | 4-bromofluorobenzene (s)  | 1.141 | 1.299 | -13.8 | 136 | 0.00 | 6.20 |
| 97 |   | bromobenzene              | 0.603 | 0.579 | 4.0   | 114 | 0.00 | 6.28 |
| 98 |   | 1,1,2,2-tetrachloroethane | 0.985 | 1.072 | -8.8  | 130 | 0.01 | 6.34 |

# Continuing Calibration Summary

Page 3 of 3

**Job Number:** JD54605

**Sample:** V1K38-CC11

**Account:** FLSNYYNY Fleming-Lee Shue, Inc.

**Lab FileID:** 1K01224.D

**Project:** Info Tech High School, 21-16 44th Road, Long Island City, NY

|     |                           |       |       |        |     |      |      |
|-----|---------------------------|-------|-------|--------|-----|------|------|
| 99  | trans-1,4-dichloro-2-bute | 0.552 | 0.576 | -4.3   | 122 | 0.01 | 6.48 |
| 100 | 1,2,3-trichloropropane    | 0.287 | 0.321 | -11.8  | 133 | 0.00 | 6.45 |
| 101 | n-propylbenzene           | 3.901 | 3.703 | 5.1    | 113 | 0.01 | 6.30 |
| 102 | 2-chlorotoluene           | 0.627 | 0.581 | 7.3    | 109 | 0.00 | 6.42 |
| 103 | 4-chlorotoluene           | 2.363 | 2.320 | 1.8    | 117 | 0.00 | 6.54 |
| 104 | 1,3,5-trimethylbenzene    | 2.548 | 2.399 | 5.8    | 111 | 0.00 | 6.44 |
| 105 | tert-butylbenzene         | 2.044 | 1.868 | 8.6    | 108 | 0.00 | 6.69 |
| 106 | 1,2,4-trimethylbenzene    | 2.588 | 2.469 | 4.6    | 111 | 0.01 | 6.75 |
| 107 | sec-butylbenzene          | 3.265 | 2.965 | 9.2    | 106 | 0.00 | 6.82 |
| 108 | 1,3-dichlorobenzene       | 1.240 | 1.073 | 13.5   | 105 | 0.01 | 6.99 |
| 109 | p-isopropyltoluene        | 2.499 | 2.277 | 8.9    | 105 | 0.00 | 6.93 |
| 110 | 1,4-dichlorobenzene       | 1.230 | 1.073 | 12.8   | 106 | 0.00 | 7.06 |
| 111 | 1,2-dichlorobenzene       | 1.209 | 1.050 | 13.2   | 107 | 0.00 | 7.36 |
| 112 | 1,2,3-trimethylbenzene    | 2.698 | 2.553 | 5.4    | 114 | 0.00 | 7.07 |
| 113 | n-butylbenzene            | 1.593 | 1.575 | 1.1    | 116 | 0.00 | 7.24 |
| 114 | 1,2-dibromo-3-chloropropa | 0.275 | 0.270 | 1.8    | 114 | 0.02 | 7.93 |
| 115 | 1,3,5-trichlorobenzene    | 0.897 | 0.803 | 10.5   | 107 | 0.00 | 7.95 |
| 116 | 1,2,4-trichlorobenzene    | 0.755 | 0.713 | 5.6    | 109 | 0.02 | 8.38 |
| 117 | hexachlorobutadiene       | 0.325 | 0.272 | 16.3   | 97  | 0.00 | 8.36 |
| 118 | naphthalene               | 2.965 | 2.855 | 3.7    | 111 | 0.01 | 8.59 |
| 119 | 1,2,3-trichlorobenzene    | 0.739 | 0.694 | 6.1    | 108 | 0.00 | 8.71 |
| 120 | hexachloroethane          | 0.423 | 0.384 | 9.2    | 107 | 0.00 | 7.34 |
| 121 | benzyl chloride           | 0.311 | 0.381 | -22.5# | 136 | 0.00 | 7.24 |
| 122 | 2-methylnaphthalene       | 1.401 | 1.247 | 11.0   | 102 | 0.01 | 9.25 |

(#) = Out of Range  
1K00268.D M1K11.M

SPCC's out = 0 CCC's out = 0  
Thu Nov 03 00:08:43 2022

## Initial Calibration Summary

Page 1 of 5

**Job Number:** JD54605 **Sample:** V1U2015-ICC2015  
**Account:** FLSNYY Fleming-Lee Shue, Inc. **Lab FileID:** 1U49570.D  
**Project:** Info Tech High School, 21-16 44th Road, Long Island City, NY

### Response Factor Report GCMS-U

Method : C:\MSDCHEM\1\METHODS\M1U2015.M (RTE Integrator)  
Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um  
Last Update : Wed Nov 02 11:15:22 2022  
Response via : Initial Calibration

#### Calibration Files

4 =1U49564.D 0.5 =1U49558.D 8 =1U49566.D 50 =1U49570.D  
100 =1U49572.D 1 =1U49560.D 200 =1U49574.D 20 =1U49568.D  
2 =1U49562.D 0.2 =1U49556.D = =

| Compound                   | 4                                                  | 0.5   | 8     | 50    | 100   | 1     | 200   | 20    | 2     | 0.2   | Avg   | %RSD  |
|----------------------------|----------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| -----                      |                                                    |       |       |       |       |       |       |       |       |       |       |       |
| 1) I tert butyl alcohol-d9 | -----ISTD-----                                     |       |       |       |       |       |       |       |       |       |       |       |
| 2) ethanol                 | 0.039                                              | 0.040 | 0.033 | 0.031 | 0.050 |       | 0.037 | 0.041 |       | 0.039 | 15.79 |       |
| 3) tertiary butyl alcohol  | 0.657                                              | 0.724 | 0.608 | 0.621 | 0.893 | 0.566 | 0.647 | 0.695 |       | 0.676 | 14.85 |       |
| 4) 1,4-dioxane             | 0.047                                              | 0.058 | 0.054 | 0.059 | 0.039 | 0.058 | 0.055 | 0.039 |       | 0.051 | 16.47 |       |
| 5) I pentafluorobenzene    | -----ISTD-----                                     |       |       |       |       |       |       |       |       |       |       |       |
| 6) chlorodifluoromethane   | 0.238                                              | 0.284 | 0.230 | 0.225 | 0.309 | 0.235 | 0.256 | 0.263 |       | 0.255 | 11.51 |       |
| 7) dichlorodifluoromethane | 0.394                                              | 0.367 | 0.349 | 0.361 | 0.365 | 0.468 | 0.379 | 0.380 | 0.416 | 0.369 | 0.385 | 9.03  |
| 8) chloromethane           | 0.279                                              | 0.222 | 0.238 | 0.233 | 0.342 | 0.241 | 0.260 | 0.292 |       | 0.263 | 15.06 |       |
| 9) vinyl chloride          | 0.372                                              | 0.360 | 0.311 | 0.322 | 0.309 | 0.423 | 0.297 | 0.354 | 0.397 |       | 0.350 | 12.33 |
| 10) 1,3-butadiene          | 0.245                                              | 0.277 | 0.199 | 0.184 |       | 0.174 | 0.242 | 0.260 |       | 0.226 | 17.68 |       |
| 11) bromomethane           | 0.391                                              | 0.340 | 0.309 | 0.286 |       | 0.249 | 0.351 | 0.406 |       | 0.333 | 16.87 |       |
| 12) chloroethane           | 0.291                                              | 0.300 | 0.221 | 0.245 | 0.243 | 0.312 | 0.229 | 0.265 | 0.306 |       | 0.268 | 13.15 |
| 13) trichlorofluoromethane | 0.961                                              | 0.828 | 0.796 | 0.854 | 0.851 | 1.041 | 0.770 | 0.913 | 1.002 | 0.969 | 0.898 | 10.25 |
| 14) ethyl ether            | 0.182                                              | 0.227 | 0.208 | 0.174 | 0.168 | 0.209 | 0.175 | 0.197 | 0.198 |       | 0.193 | 10.30 |
| 15) acrolein               | 0.053                                              | 0.057 | 0.053 | 0.050 |       | 0.050 | 0.059 | 0.056 |       | 0.054 | 6.54  |       |
| 16) freon 113              | 0.283                                              | 0.300 | 0.333 | 0.268 | 0.279 | 0.326 | 0.289 | 0.304 | 0.296 | 0.314 | 0.299 | 6.91  |
| 17) 1,1-dichloroethene     | 0.416                                              | 0.461 | 0.478 | 0.385 | 0.373 | 0.456 | 0.384 | 0.454 | 0.423 | 0.516 | 0.434 | 10.65 |
| 18) acetone                | 0.043                                              | 0.042 | 0.038 | 0.039 | 0.035 | 0.043 | 0.023 | 0.031 | 0.033 |       | 0.036 | 18.11 |
| 19) acetonitrile           | 0.030                                              | 0.036 | 0.027 | 0.024 |       | 0.021 | 0.031 | 0.033 |       | 0.029 | 17.85 |       |
| 20) iodomethane            | 0.127                                              | 0.171 | 0.242 | 0.258 |       |       | 0.223 | 0.128 |       | 0.191 | 30.22 |       |
|                            | ----- Linear regression ----- Coefficient = 0.9966 |       |       |       |       |       |       |       |       |       |       |       |
|                            | Response Ratio = -0.00799 + 0.25507 *A             |       |       |       |       |       |       |       |       |       |       |       |
| 21) carbon disulfide       | 0.795                                              | 0.935 | 0.709 | 0.654 | 0.957 | 0.640 | 0.834 | 0.865 |       | 0.799 | 15.21 |       |

# Initial Calibration Summary

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**Job Number:** JD54605

**Sample:** V1U2015-ICC2015

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**Lab FileID:** 1U49570.D

**Project:** Info Tech High School, 21-16 44th Road, Long Island City, NY

|     |                                       |                      |       |       |       |       |       |       |       |       |
|-----|---------------------------------------|----------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| 22) | methylene chloride                    | 0.246                | 0.300 | 0.234 | 0.225 | 0.224 | 0.269 | 0.265 | 0.252 | 10.92 |
| 23) | methyl acetate                        | 0.057                | 0.070 | 0.055 | 0.053 | 0.051 | 0.062 | 0.049 | 0.057 | 12.95 |
| 24) | methyl tert butyl ether               | 0.757                | 0.873 | 0.707 | 0.673 | 0.872 | 0.658 | 0.810 | 0.758 | 10.93 |
| 25) | trans-1,2-dichloroethene              | 0.409                | 0.440 | 0.337 | 0.322 | 0.663 | 0.396 | 0.509 | 0.440 | 26.60 |
|     | ----- Linear regression -----         | Coefficient = 0.9947 |       |       |       |       |       |       |       |       |
|     | Response Ratio = 0.00784 + 0.33007 *A |                      |       |       |       |       |       |       |       |       |
| 26) | hexane                                | 0.549                | 0.629 | 0.494 | 0.475 | 0.471 | 0.581 | 0.608 | 0.544 | 11.94 |
| 27) | di-isopropyl ether                    | 0.671                | 0.803 | 0.638 | 0.608 | 0.804 | 0.613 | 0.721 | 0.700 | 11.19 |
| 28) | ethyl tert-butyl ether                | 0.695                | 0.730 | 0.837 | 0.682 | 0.647 | 0.829 | 0.637 | 0.767 | 10.69 |
| 29) | 2-butanone                            | 0.052                | 0.048 | 0.055 | 0.045 | 0.041 | 0.055 | 0.036 | 0.050 | 13.44 |
| 30) | 1,1-dichloroethane                    | 0.449                | 0.545 | 0.539 | 0.442 | 0.423 | 0.538 | 0.416 | 0.511 | 10.80 |
| 31) | chloroprene                           | 0.380                | 0.440 | 0.340 | 0.338 | 0.334 | 0.410 | 0.420 | 0.380 | 11.57 |
| 32) | acrylonitrile                         | 0.074                | 0.083 | 0.073 | 0.070 | 0.070 | 0.083 | 0.085 | 0.077 | 8.37  |
| 33) | vinyl acetate                         | 0.054                | 0.071 | 0.055 | 0.054 | 0.060 | 0.059 | 0.067 | 0.054 | 10.79 |
| 34) | ethyl acetate                         | 0.033                | 0.039 | 0.032 | 0.030 | 0.029 | 0.038 | 0.039 | 0.034 | 12.78 |
| 35) | 2,2-dichloropropane                   | 0.428                | 0.487 | 0.397 | 0.378 | 0.545 | 0.367 | 0.462 | 0.465 | 13.63 |
| 36) | cis-1,2-dichloroethene                | 0.283                | 0.326 | 0.325 | 0.276 | 0.274 | 0.353 | 0.274 | 0.311 | 10.49 |
| 37) | propionitrile                         | 0.049                | 0.055 | 0.040 | 0.037 | 0.034 | 0.048 | 0.049 | 0.045 | 16.80 |
| 38) | methyl acrylate                       | 0.058                | 0.067 | 0.059 | 0.057 | 0.068 | 0.055 | 0.067 | 0.060 | 8.12  |
| 39) | bromochloromethane                    | 0.137                | 0.132 | 0.164 | 0.139 | 0.130 | 0.170 | 0.129 | 0.159 | 10.12 |
| 40) | tetrahydrofuran                       | 0.044                | 0.053 | 0.041 | 0.036 | 0.033 | 0.048 | 0.049 | 0.043 | 17.01 |
| 41) | chloroform                            | 0.140                | 0.165 | 0.124 | 0.113 | 0.215 | 0.110 | 0.152 | 0.162 | 23.22 |
|     | ----- Linear regression -----         | Coefficient = 0.9917 |       |       |       |       |       |       |       |       |
|     | Response Ratio = 0.00274 + 0.11423 *A |                      |       |       |       |       |       |       |       |       |
| 42) | dibromofluoromethane (s)              | 0.502                | 0.509 | 0.502 | 0.467 | 0.428 | 0.511 | 0.428 | 0.488 | 6.86  |
| 43) | methacrylonitrile                     | 0.175                | 0.169 | 0.124 | 0.112 | 0.143 |       |       | 0.144 | 19.11 |
| 44) | 1,1,1-trichloroethane                 | 0.484                | 0.515 | 0.563 | 0.470 | 0.448 | 0.563 | 0.437 | 0.542 | 9.32  |
| 45) | cyclohexane                           | 0.462                | 0.373 | 0.397 | 0.390 | 0.373 | 0.437 | 0.459 | 0.413 | 9.39  |
| 46) | 1,1-dichloropropene                   | 0.370                | 0.438 | 0.451 | 0.356 | 0.335 | 0.464 | 0.331 | 0.410 | 12.62 |
| 47) | carbon tetrachloride                  | 0.480                | 0.540 | 0.459 | 0.438 | 0.658 | 0.440 | 0.497 | 0.536 | 14.40 |
| 48) | isobutyl alcohol                      | 0.032                | 0.035 | 0.030 | 0.028 | 0.025 | 0.034 | 0.036 | 0.031 | 12.09 |

6.7.5

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## Initial Calibration Summary

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Job Number: JD54605

Sample: V1U2015-ICC2015

Account: FLSNYYNY Fleming-Lee Shue, Inc.

Lab FileID: 1U49570.D

Project: Info Tech High School, 21-16 44th Road, Long Island City, NY

|     |                           |                |       |       |       |       |       |       |       |       |       |
|-----|---------------------------|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 49) | tert-amyl alcohol         | 0.019          | 0.017 | 0.020 | 0.014 | 0.012 | 0.022 | 0.017 | 0.018 | 0.018 | 18.04 |
| 50) | I 1,4-difluorobenzene     | -----ISTD----- |       |       |       |       |       |       |       |       |       |
| 51) | 1,2-dichloroethane-d4 (s) | 0.411          | 0.406 | 0.413 | 0.387 | 0.363 | 0.417 | 0.332 | 0.399 | 0.415 | 6.93  |
| 52) | iso-octane                | 0.656          | 0.805 | 0.765 | 0.644 | 0.643 | 0.834 | 0.635 | 0.715 | 0.711 | 10.51 |
| 53) | benzene                   | 0.723          | 0.861 | 0.852 | 0.734 | 0.725 | 0.906 | 0.701 | 0.805 | 0.770 | 9.99  |
| 54) | tert-amyl methyl ether    | 0.539          | 0.618 | 0.532 | 0.525 |       | 0.495 | 0.572 | 0.529 | 0.544 | 7.27  |
| 55) | heptane                   | 0.117          | 0.141 | 0.139 | 0.116 | 0.119 | 0.145 | 0.119 | 0.133 | 0.117 | 9.32  |
| 56) | isopropyl acetate         | 0.048          | 0.056 | 0.056 | 0.052 | 0.053 | 0.062 | 0.052 | 0.055 | 0.052 | 7.05  |
| 57) | 1,2-dichloroethane        | 0.271          | 0.307 | 0.249 | 0.245 | 0.339 | 0.237 | 0.280 | 0.304 | 0.279 | 12.75 |
| 58) | n-butyl alcohol           | 0.007          | 0.008 | 0.007 | 0.006 | 0.009 | 0.006 | 0.007 | 0.007 | 0.007 | 13.80 |
| 59) | ethyl acrylate            | 0.268          | 0.278 | 0.304 | 0.257 | 0.262 | 0.345 | 0.260 | 0.284 | 0.255 | 10.46 |
| 60) | trichloroethene           | 0.212          | 0.274 | 0.255 | 0.235 | 0.254 | 0.264 | 0.256 | 0.248 | 0.231 | 8.67  |
| 61) | 2-nitropropane            | 0.069          | 0.079 | 0.065 | 0.067 |       | 0.072 | 0.068 | 0.084 | 0.072 | 9.52  |
| 62) | 2-chloroethyl vinyl ether | 0.098          | 0.085 | 0.116 | 0.108 | 0.110 | 0.107 | 0.108 | 0.115 | 0.090 | 10.25 |
| 63) | methyl methacrylate       | 0.062          | 0.055 | 0.067 | 0.061 | 0.066 | 0.070 | 0.064 | 0.064 | 0.057 | 7.78  |
| 64) | 1,2-dichloropropane       | 0.169          | 0.191 | 0.201 | 0.172 | 0.175 | 0.220 | 0.173 | 0.187 | 0.169 | 10.57 |
| 65) | methylcyclohexane         | 0.269          | 0.283 | 0.219 | 0.219 |       | 0.218 | 0.248 | 0.325 | 0.254 | 16.00 |
| 66) | dibromomethane            | 0.132          | 0.150 | 0.159 | 0.140 | 0.142 | 0.171 | 0.138 | 0.153 | 0.140 | 8.38  |
| 67) | bromodichloromethane      | 0.276          | 0.319 | 0.319 | 0.282 | 0.283 | 0.347 | 0.273 | 0.306 | 0.285 | 10.04 |
| 68) | epichlorohydrin           | 0.027          | 0.027 | 0.023 | 0.023 | 0.029 | 0.022 | 0.026 | 0.029 | 0.026 | 10.95 |
| 69) | cis-1,3-dichloropropene   | 0.285          | 0.335 | 0.329 | 0.296 | 0.304 | 0.348 | 0.292 | 0.316 | 0.293 | 8.14  |
| 70) | 4-methyl-2-pentanone      | 0.090          | 0.103 | 0.098 | 0.086 | 0.083 | 0.117 | 0.080 | 0.093 | 0.089 | 12.11 |
| 71) | 3-methyl-1-butanol        | 0.007          | 0.008 | 0.007 | 0.007 |       | 0.007 | 0.007 | 0.007 | 0.007 | 3.35  |
| 72) | I chlorobenzene-d5        | -----ISTD----- |       |       |       |       |       |       |       |       |       |
| 73) | toluene-d8 (s)            | 1.268          | 1.274 | 1.270 | 1.225 | 1.214 | 1.278 | 1.263 | 1.262 | 1.272 | 1.82  |
| 74) | toluene                   | 0.478          | 0.599 | 0.579 | 0.508 | 0.526 | 0.624 | 0.539 | 0.555 | 0.524 | 8.15  |
| 75) | ethyl methacrylate        | 0.254          | 0.299 | 0.295 | 0.257 | 0.259 | 0.329 | 0.264 | 0.285 | 0.252 | 9.33  |
| 76) | trans-1,3-dichloropropene | 0.280          | 0.329 | 0.328 | 0.298 | 0.293 | 0.338 | 0.295 | 0.327 | 0.291 | 8.37  |
| 77) | 1,1,2-trichloroethane     | 0.158          | 0.143 | 0.184 | 0.156 | 0.155 | 0.218 | 0.155 | 0.169 | 0.150 | 13.40 |
| 78) | tetrachloroethene         | 0.241          | 0.275 | 0.286 | 0.271 | 0.315 | 0.290 | 0.320 | 0.281 | 0.249 | 9.34  |

## Initial Calibration Summary

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Job Number: JD54605

Sample:

V1U2015-ICC2015

Account: FLSNyny Fleming-Lee Shue, Inc.

Lab FileID:

1U49570.D

Project: Info Tech High School, 21-16 44th Road, Long Island City, NY

|      |                             |                |       |       |       |       |       |       |       |       |       |       |
|------|-----------------------------|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 79)  | 2-hexanone                  | 0.102          | 0.109 | 0.107 | 0.095 | 0.093 | 0.133 | 0.093 | 0.100 | 0.103 | 0.104 | 11.77 |
| 80)  | 1,3-dichloropropane         | 0.292          | 0.327 | 0.346 | 0.293 | 0.294 | 0.373 | 0.295 | 0.320 | 0.281 | 0.323 | 9.23  |
| 81)  | butyl acetate               | 0.129          | 0.146 | 0.126 | 0.129 |       | 0.133 | 0.137 | 0.142 |       | 0.134 | 5.51  |
| 82)  | dibromochloromethane        | 0.242          | 0.267 | 0.267 | 0.247 | 0.270 | 0.322 | 0.273 | 0.261 | 0.236 | 0.265 | 9.42  |
| 83)  | 1,2-dibromoethane           | 0.206          | 0.256 | 0.245 | 0.218 | 0.231 | 0.270 | 0.230 | 0.233 | 0.214 | 0.256 | 8.70  |
| 84)  | n-butyl ether               | 0.682          | 0.798 | 0.811 | 0.704 | 0.704 | 0.873 | 0.716 | 0.763 | 0.693 | 0.851 | 9.18  |
| 85)  | chlorobenzene               | 0.571          | 0.721 | 0.655 | 0.601 | 0.616 | 0.734 | 0.611 | 0.639 | 0.575 | 0.713 | 9.37  |
| 86)  | 1,1,1,2-tetrachloroethane   | 0.193          | 0.256 | 0.237 | 0.225 | 0.233 | 0.270 | 0.226 | 0.236 | 0.212 | 0.232 | 9.75  |
| 87)  | ethylbenzene                | 0.977          | 1.290 | 1.141 | 0.997 | 0.962 | 1.283 | 0.940 | 1.084 | 1.035 | 1.079 | 12.36 |
| 88)  | m,p-xylene                  | 0.352          | 0.405 | 0.421 | 0.384 | 0.377 | 0.426 | 0.368 | 0.408 | 0.364 | 0.409 | 6.54  |
| 89)  | o-xylene                    | 0.322          | 0.392 | 0.391 | 0.357 | 0.367 | 0.390 | 0.364 | 0.383 | 0.353 | 0.401 | 6.42  |
| 90)  | styrene                     | 0.534          | 0.622 | 0.634 | 0.599 | 0.602 | 0.662 | 0.586 | 0.635 | 0.543 | 0.677 | 7.66  |
| 91)  | bromoform                   | 0.184          | 0.215 | 0.210 | 0.202 | 0.226 | 0.247 | 0.223 | 0.201 | 0.166 | 0.208 | 11.41 |
| 92)  | butyl acrylate              | 0.348          | 0.408 | 0.345 | 0.338 |       | 0.354 | 0.385 | 0.356 |       | 0.362 | 7.00  |
| 93)  | isopropylbenzene            | 0.896          | 1.056 | 1.073 | 0.970 | 0.962 | 1.112 | 0.935 | 1.048 | 0.951 | 1.174 | 8.68  |
| 94)  | cis-1,4-dichloro-2-butene   | 0.099          | 0.114 | 0.112 | 0.109 | 0.110 | 0.127 | 0.115 | 0.115 | 0.098 | 0.111 | 7.95  |
| 95)  | I 1,4-dichlorobenzene-d     | -----ISTD----- |       |       |       |       |       |       |       |       |       |       |
| 96)  | 4-bromofluorobenzene (s)    | 0.956          | 0.953 | 0.950 | 0.911 | 0.873 | 0.947 | 0.871 | 0.964 | 0.965 | 0.965 | 3.97  |
| 97)  | bromobenzene                | 0.540          | 0.504 | 0.578 | 0.539 | 0.619 | 0.664 | 0.615 | 0.579 | 0.549 | 0.531 | 8.56  |
| 98)  | 1,1,2,2-tetrachloroethane   | 0.631          | 0.622 | 0.695 | 0.556 | 0.532 | 0.848 | 0.537 | 0.647 | 0.647 | 0.635 | 15.33 |
| 99)  | trans-1,4-dichloro-2-butene | 0.146          | 0.158 | 0.135 | 0.133 |       | 0.138 | 0.159 | 0.157 |       | 0.147 | 7.76  |
| 100) | 1,2,3-trichloropropane      | 0.204          | 0.220 | 0.196 | 0.178 |       | 0.176 | 0.201 | 0.199 |       | 0.196 | 7.84  |
| 101) | n-propylbenzene             | 2.305          | 2.759 | 2.632 | 2.292 | 2.215 | 2.855 | 2.151 | 2.598 | 2.382 | 2.465 | 10.21 |
| 102) | 2-chlorotoluene             | 0.496          | 0.563 | 0.540 | 0.501 | 0.515 | 0.573 | 0.506 | 0.531 | 0.486 | 0.592 | 6.77  |
| 103) | 4-chlorotoluene             | 1.324          | 1.595 | 1.554 | 1.328 | 1.263 | 1.689 | 1.246 | 1.485 | 1.452 | 1.437 | 10.90 |
| 104) | 1,3,5-trimethylbenzene      | 1.486          | 1.653 | 1.747 | 1.552 | 1.503 | 1.799 | 1.466 | 1.705 | 1.537 | 2.040 | 10.91 |
| 105) | tert-butylbenzene           | 1.330          | 1.620 | 1.543 | 1.395 | 1.399 | 1.618 | 1.382 | 1.525 | 1.407 | 1.622 | 7.66  |
| 106) | 1,2,4-trimethylbenzene      | 1.412          | 1.578 | 1.711 | 1.523 | 1.497 | 1.769 | 1.482 | 1.674 | 1.498 | 1.867 | 9.18  |
| 107) | sec-butylbenzene            | 1.944          | 2.294 | 2.276 | 2.014 | 1.952 | 2.277 | 1.909 | 2.259 | 1.981 | 2.635 | 10.78 |
| 108) | 1,3-dichlorobenzene         | 0.891          | 1.220 | 1.047 | 0.952 | 1.006 | 1.099 | 0.991 | 1.014 | 0.946 | 1.018 | 9.49  |



# Initial Calibration Summary

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**Job Number:** JD54605

**Sample:** V1U2015-ICC2015

**Account:** FLSNYYNY Fleming-Lee Shue, Inc.

**Lab FileID:** 1U49570.D

**Project:** Info Tech High School, 21-16 44th Road, Long Island City, NY

|      |                             |       |       |       |       |       |       |       |       |       |       |       |       |
|------|-----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 109) | p-isopropyltoluene          | 1.515 | 1.788 | 1.807 | 1.675 | 1.689 | 1.726 | 1.685 | 1.809 | 1.633 | 2.158 | 1.748 | 9.67  |
| 110) | 1,4-dichlorobenzene         | 0.956 |       | 1.061 | 0.967 | 0.991 | 1.173 | 0.980 | 1.022 | 1.015 |       | 1.021 | 6.88  |
| 111) | 1,2-dichlorobenzene         | 0.856 | 0.932 | 0.953 | 0.861 | 0.916 | 1.013 | 0.912 | 0.929 | 0.867 | 1.080 | 0.932 | 7.56  |
| 112) | 1,2,3-trimethylbenzene      | 1.469 | 1.715 | 1.668 | 1.502 | 1.452 | 1.774 | 1.443 | 1.651 | 1.529 |       | 1.578 | 7.92  |
| 113) | n-butylbenzene              | 0.819 | 0.853 | 0.949 | 0.834 | 0.827 | 0.960 | 0.832 | 0.924 | 0.796 |       | 0.866 | 7.07  |
| 114) | 1,2-dibromo-3-chloropropane | 0.159 |       | 0.182 | 0.160 | 0.193 | 0.195 | 0.216 | 0.168 | 0.163 |       | 0.180 | 11.47 |
| 115) | 1,3,5-trichlorobenzene      | 0.582 | 0.615 | 0.660 | 0.591 | 0.723 | 0.655 | 0.805 | 0.626 | 0.575 |       | 0.648 | 11.58 |
| 116) | 1,2,4-trichlorobenzene      | 0.422 | 0.576 | 0.540 | 0.488 | 0.581 | 0.520 | 0.668 | 0.525 | 0.475 |       | 0.533 | 13.35 |
| 117) | hexachlorobutadiene         | 0.206 |       | 0.268 | 0.225 | 0.278 | 0.277 | 0.324 | 0.253 | 0.248 |       | 0.260 | 13.79 |
| 118) | naphthalene                 | 1.340 |       | 1.545 | 1.476 | 1.773 |       | 1.909 | 1.552 |       |       | 1.599 | 12.92 |
| 119) | 1,2,3-trichlorobenzene      | 0.452 | 0.524 | 0.520 | 0.483 | 0.590 | 0.547 | 0.675 | 0.501 | 0.470 |       | 0.529 | 13.01 |
| 120) | hexachloroethane            | 0.273 | 0.299 | 0.328 | 0.313 | 0.328 | 0.301 | 0.333 | 0.337 | 0.281 | 0.356 | 0.315 | 8.29  |
| 121) | benzyl chloride             | 0.189 | 0.207 | 0.214 | 0.214 | 0.228 | 0.234 | 0.239 | 0.219 | 0.182 | 0.244 | 0.217 | 9.40  |
| 122) | 2-methylnaphthalene         | 0.472 |       | 0.556 | 0.568 | 0.694 |       |       | 0.586 | 0.509 |       | 0.564 | 13.51 |

(#) = Out of Range ### Number of calibration levels exceeded format ###

M1U2015.M

Wed Nov 02 11:16:16 2022

## Initial Calibration Verification

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Job Number: JD54605

Sample: V1U2015-ICV2015

Account: FLSNYNY Fleming-Lee Shue, Inc.

Lab FileID: 1U49580.D

Project: Info Tech High School, 21-16 44th Road, Long Island City, NY

## Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\VU2015\1U49580.D

Vial: 26

Acq On : 28 Oct 2022 11:30 pm

Operator: edwardd

Sample : icv2015-50

Inst : GCMS-U

Misc : MS63374,V1U2015,5,,,,,1

Multiplr: 1.00

MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M1U2015.M (RTE Integrator)

Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um

Last Update : Wed Nov 02 11:15:22 2022

Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min

Max. RRF Dev : 30% Max. Rel. Area : 200%

|                                | Compound                 | AvgRF  | CCRF   | %Dev  | Area% | Dev(min) | R.T. |
|--------------------------------|--------------------------|--------|--------|-------|-------|----------|------|
| 1 I                            | tert butyl alcohol-d9    | 1.000  | 1.000  | 0.0   | 107   | 0.00     | 2.06 |
| 2                              | ethanol                  | 0.039  | 0.033  | 15.4  | 106   | 0.00     | 1.65 |
| 3 M                            | tertiary butyl alcohol   | 0.676  | 0.659  | 2.5   | 116   | 0.00     | 2.09 |
| 4                              | 1,4-dioxane              | 0.051  | 0.054  | -5.9  | 107   | 0.00     | 3.71 |
| 5 I                            | pentafluorobenzene       | 1.000  | 1.000  | 0.0   | 106   | 0.00     | 2.99 |
| 6                              | chlorodifluoromethane    |        |        | NA    |       |          |      |
| 7                              | dichlorodifluoromethane  | 0.385  | 0.378  | 1.8   | 111   | 0.00     | 1.06 |
| 8                              | chloromethane            | 0.263  | 0.259  | 1.5   | 115   | 0.00     | 1.17 |
| 9                              | vinyl chloride           | 0.350  | 0.351  | -0.3  | 115   | 0.00     | 1.20 |
| 10                             | 1,3-butadiene            | 0.226  | 0.280  | -23.9 | 149   | 0.00     | 1.21 |
| 11                             | bromomethane             | 0.333  | 0.328  | 1.5   | 112   | 0.00     | 1.35 |
| 12                             | chloroethane             | 0.268  | 0.272  | -1.5  | 117   | 0.00     | 1.42 |
| 13                             | trichlorofluoromethane   | 0.898  | 0.874  | 2.7   | 108   | 0.00     | 1.48 |
| 14                             | ethyl ether              | 0.193  | 0.169  | 12.4  | 103   | 0.00     | 1.60 |
| 15                             | acrolein                 | 0.054  | 0.060  | -11.1 | 120   | 0.00     | 1.85 |
| 16                             | freon 113                | 0.299  | 0.249  | 16.7  | 99    | 0.00     | 1.72 |
| 17                             | 1,1-dichloroethene       | 0.434  | 0.378  | 12.9  | 104   | 0.00     | 1.71 |
| 18                             | acetone                  | 0.036  | 0.040  | -11.1 | 109   | 0.00     | 1.97 |
| 19                             | acetonitrile             |        |        | NA    |       |          |      |
| ----- True Calc. % Drift ----- |                          |        |        |       |       |          |      |
| 20                             | iodomethane              | 50.000 | 46.856 | 6.3   | 101   | 0.00     | 1.78 |
| ----- AvgRF CCRF % Dev -----   |                          |        |        |       |       |          |      |
| 21                             | carbon disulfide         | 0.799  | 0.690  | 13.6  | 103   | 0.00     | 1.74 |
| 22                             | methylene chloride       | 0.252  | 0.234  | 7.1   | 106   | 0.00     | 1.96 |
| 23                             | methyl acetate           | 0.057  | 0.060  | -5.3  | 116   | 0.00     | 2.02 |
| 24                             | methyl tert butyl ether  | 0.764  | 0.728  | 4.7   | 109   | 0.00     | 2.07 |
| ----- True Calc. % Drift ----- |                          |        |        |       |       |          |      |
| 25                             | trans-1,2-dichloroethene | 50.000 | 48.593 | 2.8   | 103   | 0.00     | 2.03 |
| ----- AvgRF CCRF % Dev -----   |                          |        |        |       |       |          |      |
| 26                             | hexane                   | 0.544  | 0.562  | -3.3  | 121   | 0.00     | 2.07 |
| 27                             | di-isopropyl ether       | 0.695  | 0.647  | 6.9   | 107   | 0.00     | 2.23 |
| 28                             | ethyl tert-butyl ether   | 0.737  | 0.664  | 9.9   | 103   | 0.00     | 2.40 |
| 29                             | 2-butanone               | 0.048  | 0.048  | 0.0   | 113   | 0.00     | 2.83 |
| 30 M                           | 1,1-dichloroethane       | 0.484  | 0.425  | 12.2  | 102   | 0.00     | 2.31 |
| 31                             | chloroprene              | 0.380  | 0.341  | 10.3  | 106   | 0.00     | 2.30 |
| 32                             | acrylonitrile            |        |        | NA    |       |          |      |
| 33                             | vinyl acetate            | 0.059  | 0.044  | 25.4  | 85    | 0.00     | 2.41 |

# Initial Calibration Verification

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Job Number: JD54605

Sample: V1U2015-ICV2015

Account: FLSNYNY Fleming-Lee Shue, Inc.

Lab FileID: 1U49580.D

Project: Info Tech High School, 21-16 44th Road, Long Island City, NY

|       |                           |        |        |              |     |      |      |
|-------|---------------------------|--------|--------|--------------|-----|------|------|
| 34    | ethyl acetate             | 0.034  | 0.032  | 5.9          | 108 | 0.00 | 2.73 |
| 35    | 2,2-dichloropropane       | 0.441  | 0.372  | 15.6         | 99  | 0.00 | 2.62 |
| 36    | cis-1,2-dichloroethene    | 0.307  | 0.273  | 11.1         | 105 | 0.00 | 2.56 |
| 37    | propionitrile             | 0.045  | 0.038  | 15.6         | 100 | 0.00 | 2.98 |
| 38    | methyl acrylate           | 0.061  | 0.060  | 1.6          | 107 | 0.00 | 2.74 |
| 39    | bromochloromethane        | 0.147  | 0.136  | 7.5          | 103 | 0.00 | 2.66 |
| 40    | tetrahydrofuran           | 0.043  | 0.038  | 11.6         | 99  | 0.00 | 2.77 |
| <hr/> |                           |        |        |              |     |      |      |
|       |                           | True   | Calc.  | % Drift      |     |      |      |
| 41    | chloroform                | 50.000 | 55.189 | -10.4        | 110 | 0.00 | 2.68 |
| <hr/> |                           |        |        |              |     |      |      |
|       |                           | AvgRF  | CCRF   | % Dev        |     |      |      |
| 42 S  | dibromofluoromethane (s)  | 0.485  | 0.458  | 5.6          | 104 | 0.00 | 2.77 |
| 43    | methacrylonitrile         | 0.144  | 0.124  | 13.9         | 106 | 0.00 | 2.99 |
| 44    | 1,1,1-trichloroethane     | 0.504  | 0.462  | 8.3          | 104 | 0.00 | 2.81 |
| 45    | cyclohexane               | 0.413  | 0.476  | -15.3        | 127 | 0.00 | 2.67 |
| 46    | 1,1-dichloropropene       | 0.395  | 0.345  | 12.7         | 102 | 0.00 | 2.86 |
| 47    | carbon tetrachloride      | 0.506  | 0.453  | 10.5         | 105 | 0.00 | 2.77 |
| 48    | isobutyl alcohol          | 0.031  | 0.030  | 3.2          | 106 | 0.00 | 3.03 |
| 49    | tert-amyl alcohol         | 0.018  | 0.014  | 22.2         | 107 | 0.00 | 3.10 |
| <hr/> |                           |        |        |              |     |      |      |
| 50 I  | 1,4-difluorobenzene       | 1.000  | 1.000  | 0.0          | 105 | 0.00 | 3.29 |
| 51 S  | 1,2-dichloroethane-d4 (s) | 0.395  | 0.379  | 4.1          | 103 | 0.00 | 3.05 |
| 52    | iso-octane                | 0.712  | 0.543  | 23.7         | 89  | 0.00 | 2.91 |
| 53 M  | benzene                   | 0.799  | 0.713  | 10.8         | 102 | 0.00 | 2.99 |
| 54    | tert-amyl methyl ether    | 0.544  | 0.512  | 5.9          | 101 | 0.00 | 3.03 |
| 55    | heptane                   | 0.127  | 0.106  | 16.5         | 96  | 0.00 | 2.95 |
| 56    | isopropyl acetate         | 0.054  | 0.053  | 1.9          | 107 | 0.00 | 3.18 |
| 57    | 1,2-dichloroethane        | 0.279  | 0.248  | 11.1         | 105 | 0.00 | 3.08 |
| 58    | n-butyl alcohol           | 0.007  | 0.007  | 0.0          | 112 | 0.00 | 3.42 |
| 59    | ethyl acrylate            | 0.279  | 0.257  | 7.9          | 105 | 0.00 | 3.55 |
| 60    | trichloroethene           | 0.252  | 0.243  | 3.6          | 109 | 0.00 | 3.29 |
| 61    | 2-nitropropane            | 0.072  | 0.075  | -4.2         | 122 | 0.00 | 4.25 |
| 62    | 2-chloroethyl vinyl ether | 0.104  | 0.099  | 4.8          | 97  | 0.00 | 3.92 |
| 63    | methyl methacrylate       | 0.063  | 0.068  | -7.9         | 117 | 0.00 | 3.67 |
| 64    | 1,2-dichloropropane       | 0.181  | 0.172  | 5.0          | 106 | 0.00 | 3.57 |
| 65    | methylcyclohexane         | 0.254  | 0.209  | 17.7         | 100 | 0.00 | 3.29 |
| 66    | dibromomethane            | 0.147  | 0.140  | 4.8          | 106 | 0.00 | 3.52 |
| 67    | bromodichloromethane      | 0.305  | 0.287  | 5.9          | 107 | 0.00 | 3.60 |
| 68    | epichlorohydrin           | 0.026  | 0.023  | 11.5         | 104 | 0.00 | 4.11 |
| 69    | cis-1,3-dichloropropene   | 0.316  | 0.293  | 7.3          | 104 | 0.00 | 3.96 |
| 70    | 4-methyl-2-pentanone      | 0.093  | 0.088  | 5.4          | 108 | 0.00 | 4.34 |
| 71    | 3-methyl-1-butanol        | 0.007  | 0.007  | 0.0          | 110 | 0.00 | 4.19 |
| <hr/> |                           |        |        |              |     |      |      |
| 72 I  | chlorobenzene-d5          | 1.000  | 1.000  | 0.0          | 105 | 0.00 | 5.09 |
| 73 S  | toluene-d8 (s)            | 1.261  | 1.224  | 2.9          | 105 | 0.00 | 4.08 |
| 74    | toluene                   | 0.552  | 0.512  | 7.2          | 105 | 0.00 | 4.12 |
| 75    | ethyl methacrylate        | 0.280  | 0.251  | 10.4         | 102 | 0.00 | 4.45 |
| 76    | trans-1,3-dichloropropene | 0.314  | 0.298  | 5.1          | 105 | 0.00 | 4.36 |
| 77    | 1,1,2-trichloroethane     | 0.164  | 0.161  | 1.8          | 108 | 0.00 | 4.47 |
| 78    | tetrachloroethene         |        |        | -----NA----- |     |      |      |
| 79    | 2-hexanone                | 0.104  | 0.100  | 3.8          | 111 | 0.00 | 4.88 |
| 80    | 1,3-dichloropropane       | 0.314  | 0.296  | 5.7          | 106 | 0.00 | 4.65 |
| 81    | butyl acetate             | 0.134  | 0.138  | -3.0         | 115 | 0.00 | 4.81 |
| 82    | dibromochloromethane      | 0.265  | 0.263  | 0.8          | 111 | 0.00 | 4.59 |
| 83    | 1,2-dibromoethane         | 0.236  | 0.226  | 4.2          | 109 | 0.00 | 4.75 |
| 84    | n-butyl ether             | 0.760  | 0.701  | 7.8          | 104 | 0.00 | 5.03 |
| 85    | chlorobenzene             | 0.644  | 0.621  | 3.6          | 108 | 0.00 | 5.10 |
| 86    | 1,1,1,2-tetrachloroethane | 0.232  | 0.238  | -2.6         | 110 | 0.00 | 5.14 |
| 87    | ethylbenzene              | 1.079  | 1.000  | 7.3          | 105 | 0.00 | 5.12 |

## Initial Calibration Verification

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Job Number: JD54605

Sample: V1U2015-ICV2015

Account: FLSNYNY Fleming-Lee Shue, Inc.

Lab FileID: 1U49580.D

Project: Info Tech High School, 21-16 44th Road, Long Island City, NY

|      |                           |       |       |              |     |      |      |
|------|---------------------------|-------|-------|--------------|-----|------|------|
| 88   | m,p-xylene                | 0.391 | 0.392 | -0.3         | 107 | 0.00 | 5.22 |
| 89   | o-xylene                  | 0.372 | 0.365 | 1.9          | 107 | 0.00 | 5.53 |
| 90   | styrene                   | 0.609 | 0.621 | -2.0         | 108 | 0.00 | 5.56 |
| 91   | bromoform                 | 0.208 | 0.219 | -5.3         | 113 | 0.00 | 5.58 |
| 92   | butyl acrylate            | 0.362 | 0.358 | 1.1          | 109 | 0.00 | 5.65 |
| 93   | isopropylbenzene          | 1.018 | 1.006 | 1.2          | 108 | 0.00 | 5.76 |
| 94   | cis-1,4-dichloro-2-butene | 0.111 | 0.105 | 5.4          | 101 | 0.00 | 6.01 |
| 95 I | 1,4-dichlorobenzene-d4    | 1.000 | 1.000 | 0.0          | 106 | 0.00 | 6.83 |
| 96 S | 4-bromofluorobenzene (s)  | 0.935 | 0.887 | 5.1          | 103 | 0.00 | 5.97 |
| 97   | bromobenzene              | 0.572 | 0.574 | -0.3         | 112 | 0.00 | 6.05 |
| 98   | 1,1,2,2-tetrachloroethane | 0.635 | 0.563 | 11.3         | 107 | 0.00 | 6.11 |
| 99   | trans-1,4-dichloro-2-bute | 0.147 | 0.146 | 0.7          | 114 | 0.00 | 6.25 |
| 100  | 1,2,3-trichloropropane    | 0.196 | 0.197 | -0.5         | 106 | 0.00 | 6.22 |
| 101  | n-propylbenzene           | 2.465 | 2.311 | 6.2          | 106 | 0.00 | 6.07 |
| 102  | 2-chlorotoluene           | 0.530 | 0.516 | 2.6          | 109 | 0.00 | 6.19 |
| 103  | 4-chlorotoluene           | 1.437 | 1.335 | 7.1          | 106 | 0.00 | 6.31 |
| 104  | 1,3,5-trimethylbenzene    | 1.649 | 1.587 | 3.8          | 108 | 0.00 | 6.22 |
| 105  | tert-butylbenzene         | 1.484 | 1.567 | -5.6         | 119 | 0.00 | 6.47 |
| 106  | 1,2,4-trimethylbenzene    | 1.601 | 1.552 | 3.1          | 108 | 0.00 | 6.52 |
| 107  | sec-butylbenzene          | 2.154 | 2.059 | 4.4          | 108 | 0.00 | 6.61 |
| 108  | 1,3-dichlorobenzene       | 1.018 | 0.998 | 2.0          | 111 | 0.00 | 6.77 |
| 109  | p-isopropyltoluene        | 1.748 | 1.737 | 0.6          | 109 | 0.00 | 6.72 |
| 110  | 1,4-dichlorobenzene       | 1.021 | 0.998 | 2.3          | 109 | 0.00 | 6.84 |
| 111  | 1,2-dichlorobenzene       | 0.932 | 0.896 | 3.9          | 110 | 0.00 | 7.15 |
| 112  | 1,2,3-trimethylbenzene    |       |       | -----NA----- |     |      |      |
| 113  | n-butylbenzene            | 0.866 | 0.834 | 3.7          | 106 | 0.00 | 7.04 |
| 114  | 1,2-dibromo-3-chloropropa | 0.180 | 0.168 | 6.7          | 111 | 0.00 | 7.72 |
| 115  | 1,3,5-trichlorobenzene    | 0.648 | 0.616 | 4.9          | 110 | 0.00 | 7.75 |
| 116  | 1,2,4-trichlorobenzene    | 0.533 | 0.522 | 2.1          | 113 | 0.00 | 8.19 |
| 117  | hexachlorobutadiene       | 0.260 | 0.245 | 5.8          | 115 | 0.00 | 8.18 |
| 118  | naphthalene               | 1.599 | 1.553 | 2.9          | 111 | 0.00 | 8.40 |
| 119  | 1,2,3-trichlorobenzene    | 0.529 | 0.510 | 3.6          | 111 | 0.00 | 8.53 |
| 120  | hexachloroethane          | 0.315 | 0.325 | -3.2         | 109 | 0.00 | 7.14 |
| 121  | benzyl chloride           | 0.217 | 0.198 | 8.8          | 97  | 0.00 | 7.03 |
| 122  | 2-methylnaphthalene       | 0.564 | 0.595 | -5.5         | 111 | 0.00 | 9.08 |

(# ) = Out of Range

SPCC's out = 0 CCC's out = 0

1U49570.D M1U2015.M

Wed Nov 02 11:16:03 2022

## Initial Calibration Verification

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Job Number: JD54605

Sample: V1U2015-ICV2015

Account: FLSNYNY Fleming-Lee Shue, Inc.

Lab FileID: 1U49582.D

Project: Info Tech High School, 21-16 44th Road, Long Island City, NY

## Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\VU2015\1U49582.D Vial: 28  
 Acq On : 28 Oct 2022 11:59 pm Operator: edwardd  
 Sample : icv2015-50 Inst : GCMS-U  
 Misc : MS63374,V1U2015,5,,,1 Multiplr: 1.00  
 MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M1U2015.M (RTE Integrator)  
 Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um  
 Last Update : Mon Oct 31 14:52:57 2022  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 30% Max. Rel. Area : 200%

|      | Compound                 | AvgRF | CCRF         | %Dev    | Area% | Dev(min) | R.T. |
|------|--------------------------|-------|--------------|---------|-------|----------|------|
| 1 I  | tert butyl alcohol-d9    | 1.000 | 1.000        | 0.0     | 119   | 0.00     | 2.06 |
| 2    | ethanol                  |       | -----NA----- |         |       |          |      |
| 3 M  | tertiary butyl alcohol   |       | -----NA----- |         |       |          |      |
| 4    | 1,4-dioxane              |       | -----NA----- |         |       |          |      |
| 5 I  | pentafluorobenzene       | 1.000 | 1.000        | 0.0     | 107   | 0.00     | 2.99 |
| 6    | chlorodifluoromethane    | 0.255 | 0.270        | -5.9    | 126   | 0.00     | 1.09 |
| 7    | dichlorodifluoromethane  |       | -----NA----- |         |       |          |      |
| 8    | chloromethane            |       | -----NA----- |         |       |          |      |
| 9    | vinyl chloride           |       | -----NA----- |         |       |          |      |
| 10   | 1,3-butadiene            |       | -----NA----- |         |       |          |      |
| 11   | bromomethane             |       | -----NA----- |         |       |          |      |
| 12   | chloroethane             |       | -----NA----- |         |       |          |      |
| 13   | trichlorofluoromethane   |       | -----NA----- |         |       |          |      |
| 14   | ethyl ether              |       | -----NA----- |         |       |          |      |
| 15   | acrolein                 |       | -----NA----- |         |       |          |      |
| 16   | freon 113                |       | -----NA----- |         |       |          |      |
| 17   | 1,1-dichloroethene       |       | -----NA----- |         |       |          |      |
| 18   | acetone                  |       | -----NA----- |         |       |          |      |
| 19   | acetonitrile             | 0.029 | 0.036        | -24.1   | 146   | 0.00     | 2.19 |
|      | ----- True               |       | Calc.        | % Drift |       |          |      |
| 20   | iodomethane              |       | -----NA----- |         |       |          |      |
|      | ----- AvgRF              |       | CCRF         | % Dev   |       |          |      |
| 21   | carbon disulfide         |       | -----NA----- |         |       |          |      |
| 22   | methylene chloride       |       | -----NA----- |         |       |          |      |
| 23   | methyl acetate           |       | -----NA----- |         |       |          |      |
| 24   | methyl tert butyl ether  |       | -----NA----- |         |       |          |      |
| 25   | trans-1,2-dichloroethene |       | -----NA----- |         |       |          |      |
| 26   | hexane                   |       | -----NA----- |         |       |          |      |
| 27   | di-isopropyl ether       |       | -----NA----- |         |       |          |      |
| 28   | ethyl tert-butyl ether   |       | -----NA----- |         |       |          |      |
| 29   | 2-butanone               |       | -----NA----- |         |       |          |      |
| 30 M | 1,1-dichloroethane       |       | -----NA----- |         |       |          |      |
| 31   | chloroprene              |       | -----NA----- |         |       |          |      |
| 32   | acrylonitrile            | 0.077 | 0.087        | -13.0   | 128   | 0.00     | 2.33 |
| 33   | vinyl acetate            |       | -----NA----- |         |       |          |      |
| 34   | ethyl acetate            |       | -----NA----- |         |       |          |      |
| 35   | 2,2-dichloropropane      |       | -----NA----- |         |       |          |      |
| 36   | cis-1,2-dichloroethene   |       | -----NA----- |         |       |          |      |
| 37   | propionitrile            |       | -----NA----- |         |       |          |      |

## Initial Calibration Verification

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Job Number: JD54605

Sample: V1U2015-ICV2015

Account: FLSNyny Fleming-Lee Shue, Inc.

Lab FileID: 1U49582.D

Project: Info Tech High School, 21-16 44th Road, Long Island City, NY

|      |                           |             |       |              |       |      |      |
|------|---------------------------|-------------|-------|--------------|-------|------|------|
| 38   | methyl acrylate           |             |       | -----NA----- |       |      |      |
| 39   | bromochloromethane        |             |       | -----NA----- |       |      |      |
| 40   | tetrahydrofuran           |             |       | -----NA----- |       |      |      |
|      |                           | ----- True  | Calc. | % Drift      | ----- |      |      |
| 41   | chloroform                |             |       | -----NA----- |       |      |      |
|      |                           | ----- AvgRF | CCRF  | % Dev        | ----- |      |      |
| 42 S | dibromofluoromethane (s)  | 0.485       | 0.494 | -1.9         | 114   | 0.00 | 2.77 |
| 43   | methacrylonitrile         |             |       | -----NA----- |       |      |      |
| 44   | 1,1,1-trichloroethane     |             |       | -----NA----- |       |      |      |
| 45   | cyclohexane               |             |       | -----NA----- |       |      |      |
| 46   | 1,1-dichloropropene       |             |       | -----NA----- |       |      |      |
| 47   | carbon tetrachloride      |             |       | -----NA----- |       |      |      |
| 48   | isobutyl alcohol          |             |       | -----NA----- |       |      |      |
| 49   | tert-amyl alcohol         |             |       | -----NA----- |       |      |      |
| 50 I | 1,4-difluorobenzene       | 1.000       | 1.000 | 0.0          | 111   | 0.00 | 3.29 |
| 51 S | 1,2-dichloroethane-d4 (s) | 0.395       | 0.393 | 0.5          | 113   | 0.00 | 3.05 |
| 52   | iso-octane                |             |       | -----NA----- |       |      |      |
| 53 M | benzene                   |             |       | -----NA----- |       |      |      |
| 54   | tert-amyl methyl ether    |             |       | -----NA----- |       |      |      |
| 55   | heptane                   |             |       | -----NA----- |       |      |      |
| 56   | isopropyl acetate         |             |       | -----NA----- |       |      |      |
| 57   | 1,2-dichloroethane        |             |       | -----NA----- |       |      |      |
| 58   | n-butyl alcohol           |             |       | -----NA----- |       |      |      |
| 59   | ethyl acrylate            |             |       | -----NA----- |       |      |      |
| 60   | trichloroethene           |             |       | -----NA----- |       |      |      |
| 61   | 2-nitropropane            |             |       | -----NA----- |       |      |      |
| 62   | 2-chloroethyl vinyl ether |             |       | -----NA----- |       |      |      |
| 63   | methyl methacrylate       |             |       | -----NA----- |       |      |      |
| 64   | 1,2-dichloropropane       |             |       | -----NA----- |       |      |      |
| 65   | methylcyclohexane         |             |       | -----NA----- |       |      |      |
| 66   | dibromomethane            |             |       | -----NA----- |       |      |      |
| 67   | bromodichloromethane      |             |       | -----NA----- |       |      |      |
| 68   | epichlorohydrin           |             |       | -----NA----- |       |      |      |
| 69   | cis-1,3-dichloropropene   |             |       | -----NA----- |       |      |      |
| 70   | 4-methyl-2-pentanone      |             |       | -----NA----- |       |      |      |
| 71   | 3-methyl-1-butanol        |             |       | -----NA----- |       |      |      |
| 72 I | chlorobenzene-d5          | 1.000       | 1.000 | 0.0          | 106   | 0.00 | 5.09 |
| 73 S | toluene-d8 (s)            | 1.261       | 1.285 | -1.9         | 111   | 0.00 | 4.08 |
| 74   | toluene                   |             |       | -----NA----- |       |      |      |
| 75   | ethyl methacrylate        |             |       | -----NA----- |       |      |      |
| 76   | trans-1,3-dichloropropene |             |       | -----NA----- |       |      |      |
| 77   | 1,1,2-trichloroethane     |             |       | -----NA----- |       |      |      |
| 78   | tetrachloroethene         | 0.281       | 0.275 | 2.1          | 108   | 0.00 | 4.36 |
| 79   | 2-hexanone                |             |       | -----NA----- |       |      |      |
| 80   | 1,3-dichloropropane       |             |       | -----NA----- |       |      |      |
| 81   | butyl acetate             |             |       | -----NA----- |       |      |      |
| 82   | dibromochloromethane      |             |       | -----NA----- |       |      |      |
| 83   | 1,2-dibromoethane         |             |       | -----NA----- |       |      |      |
| 84   | n-butyl ether             |             |       | -----NA----- |       |      |      |
| 85   | chlorobenzene             |             |       | -----NA----- |       |      |      |
| 86   | 1,1,1,2-tetrachloroethane |             |       | -----NA----- |       |      |      |
| 87   | ethylbenzene              |             |       | -----NA----- |       |      |      |
| 88   | m,p-xylene                |             |       | -----NA----- |       |      |      |
| 89   | o-xylene                  |             |       | -----NA----- |       |      |      |
| 90   | styrene                   |             |       | -----NA----- |       |      |      |
| 91   | bromoform                 |             |       | -----NA----- |       |      |      |

6.7.7

6

# Initial Calibration Verification

Page 3 of 3

Job Number: JD54605

Sample: V1U2015-ICV2015

Account: FLSNYYNY Fleming-Lee Shue, Inc.

Lab FileID: 1U49582.D

Project: Info Tech High School, 21-16 44th Road, Long Island City, NY

|      |                           |       |       |      |     |      |      |  |              |
|------|---------------------------|-------|-------|------|-----|------|------|--|--------------|
| 92   | butyl acrylate            |       |       |      |     |      |      |  | -----NA----- |
| 93   | isopropylbenzene          |       |       |      |     |      |      |  | -----NA----- |
| 94   | cis-1,4-dichloro-2-butene |       |       |      |     |      |      |  | -----NA----- |
| 95 I | 1,4-dichlorobenzene-d4    | 1.000 | 1.000 | 0.0  | 103 | 0.00 | 6.83 |  |              |
| 96 S | 4-bromofluorobenzene (s)  | 0.935 | 0.967 | -3.4 | 110 | 0.00 | 5.97 |  |              |
| 97   | bromobenzene              |       |       |      |     |      |      |  | -----NA----- |
| 98   | 1,1,2,2-tetrachloroethane |       |       |      |     |      |      |  | -----NA----- |
| 99   | trans-1,4-dichloro-2-bute |       |       |      |     |      |      |  | -----NA----- |
| 100  | 1,2,3-trichloropropane    |       |       |      |     |      |      |  | -----NA----- |
| 101  | n-propylbenzene           |       |       |      |     |      |      |  | -----NA----- |
| 102  | 2-chlorotoluene           |       |       |      |     |      |      |  | -----NA----- |
| 103  | 4-chlorotoluene           |       |       |      |     |      |      |  | -----NA----- |
| 104  | 1,3,5-trimethylbenzene    |       |       |      |     |      |      |  | -----NA----- |
| 105  | tert-butylbenzene         |       |       |      |     |      |      |  | -----NA----- |
| 106  | 1,2,4-trimethylbenzene    |       |       |      |     |      |      |  | -----NA----- |
| 107  | sec-butylbenzene          |       |       |      |     |      |      |  | -----NA----- |
| 108  | 1,3-dichlorobenzene       |       |       |      |     |      |      |  | -----NA----- |
| 109  | p-isopropyltoluene        |       |       |      |     |      |      |  | -----NA----- |
| 110  | 1,4-dichlorobenzene       |       |       |      |     |      |      |  | -----NA----- |
| 111  | 1,2-dichlorobenzene       |       |       |      |     |      |      |  | -----NA----- |
| 112  | 1,2,3-trimethylbenzene    | 1.578 | 1.665 | -5.5 | 114 | 0.00 | 6.86 |  |              |
| 113  | n-butylbenzene            |       |       |      |     |      |      |  | -----NA----- |
| 114  | 1,2-dibromo-3-chloropropa |       |       |      |     |      |      |  | -----NA----- |
| 115  | 1,3,5-trichlorobenzene    |       |       |      |     |      |      |  | -----NA----- |
| 116  | 1,2,4-trichlorobenzene    |       |       |      |     |      |      |  | -----NA----- |
| 117  | hexachlorobutadiene       |       |       |      |     |      |      |  | -----NA----- |
| 118  | naphthalene               |       |       |      |     |      |      |  | -----NA----- |
| 119  | 1,2,3-trichlorobenzene    |       |       |      |     |      |      |  | -----NA----- |
| 120  | hexachloroethane          |       |       |      |     |      |      |  | -----NA----- |
| 121  | benzyl chloride           |       |       |      |     |      |      |  | -----NA----- |
| 122  | 2-methylnaphthalene       |       |       |      |     |      |      |  | -----NA----- |

(#) = Out of Range  
1U49570.D M1U2015.M

SPCC's out = 0 CCC's out = 0  
Tue Nov 01 14:50:11 2022

## Continuing Calibration Summary

Page 1 of 3

Job Number: JD54605

Sample: V1U2018-CC2015

Account: FLSNYNY Fleming-Lee Shue, Inc.

Lab FileID: 1U49688.D

Project: Info Tech High School, 21-16 44th Road, Long Island City, NY

## Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\An...022\v1u2018\1u49688.d Vial: 51  
 Acq On : 1 Nov 2022 9:11 pm Operator: edwardd  
 Sample : cc2015-50 Inst : GCMS-U  
 Misc : MS63577,V1U2018,5,,,1 Multiplr: 1.00  
 MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M1U2015.M (RTE Integrator)  
 Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um  
 Last Update : Wed Nov 02 11:15:22 2022  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

|             | Compound                 | AvgRF  | CCRF    | %Dev   | Area% | Dev(min) | R.T. |
|-------------|--------------------------|--------|---------|--------|-------|----------|------|
| 1 I         | tert butyl alcohol-d9    | 1.000  | 1.000   | 0.0    | 86    | 0.00     | 2.06 |
| 2           | ethanol                  | 0.039  | 0.040   | -2.6   | 103   | 0.00     | 1.66 |
| 3 M         | tertiary butyl alcohol   | 0.676  | 0.649   | 4.0    | 92    | 0.00     | 2.09 |
| 4           | 1,4-dioxane              | 0.051  | 0.057   | -11.8  | 92    | 0.00     | 3.71 |
| 5 I         | pentafluorobenzene       | 1.000  | 1.000   | 0.0    | 86    | 0.00     | 2.99 |
| 6           | chlorodifluoromethane    | 0.255  | 0.257   | -0.8   | 96    | 0.00     | 1.09 |
| 7           | dichlorodifluoromethane  | 0.385  | 0.292   | 24.2#  | 70    | 0.00     | 1.06 |
| 8           | chloromethane            | 0.263  | 0.226   | 14.1   | 82    | 0.00     | 1.16 |
| 9           | vinyl chloride           | 0.350  | 0.333   | 4.9    | 89    | 0.00     | 1.20 |
| 10          | 1,3-butadiene            | 0.226  | 0.286   | -26.5# | 124   | 0.00     | 1.21 |
| 11          | bromomethane             | 0.333  | 0.365   | -9.6   | 102   | 0.00     | 1.35 |
| 12          | chloroethane             | 0.268  | 0.321   | -19.8  | 113   | 0.00     | 1.41 |
| 13          | trichlorofluoromethane   | 0.898  | 0.992   | -10.5  | 100   | 0.00     | 1.48 |
| 14          | ethyl ether              | 0.193  | 0.208   | -7.8   | 103   | 0.00     | 1.60 |
| 15          | acrolein                 | 0.054  | 0.054   | 0.0    | 88    | 0.00     | 1.85 |
| 16          | freon 113                | 0.299  | 0.306   | -2.3   | 98    | 0.00     | 1.71 |
| 17          | 1,1-dichloroethene       | 0.434  | 0.457   | -5.3   | 102   | 0.00     | 1.70 |
| 18          | acetone                  | 0.036  | 0.027   | 25.0#  | 61    | 0.00     | 1.97 |
| 19          | acetonitrile             | 0.029  | 0.030   | -3.4   | 97    | 0.00     | 2.19 |
| ----- True  |                          | Calc.  | % Drift | -----  |       |          |      |
| 20          | iodomethane              | 50.000 | 46.403  | 7.2    | 81    | 0.00     | 1.78 |
| ----- AvgRF |                          | CCRF   | % Dev   | -----  |       |          |      |
| 21          | carbon disulfide         | 0.799  | 0.802   | -0.4   | 97    | 0.00     | 1.74 |
| 22          | methylene chloride       | 0.252  | 0.234   | 7.1    | 86    | 0.00     | 1.96 |
| 23          | methyl acetate           | 0.057  | 0.055   | 3.5    | 86    | 0.00     | 2.02 |
| 24          | methyl tert butyl ether  | 0.764  | 0.738   | 3.4    | 90    | 0.00     | 2.07 |
| ----- True  |                          | Calc.  | % Drift | -----  |       |          |      |
| 25          | trans-1,2-dichloroethene | 50.000 | 53.849  | -7.7   | 93    | 0.00     | 2.03 |
| ----- AvgRF |                          | CCRF   | % Dev   | -----  |       |          |      |
| 26          | hexane                   | 0.544  | 0.543   | 0.2    | 95    | 0.00     | 2.07 |
| 27          | di-isopropyl ether       | 0.695  | 0.697   | -0.3   | 94    | 0.00     | 2.23 |
| 28          | ethyl tert-butyl ether   | 0.737  | 0.734   | 0.4    | 93    | 0.00     | 2.40 |
| 29          | 2-butanone               | 0.048  | 0.043   | 10.4   | 82    | 0.00     | 2.83 |
| 30 M        | 1,1-dichloroethane       | 0.484  | 0.487   | -0.6   | 95    | 0.00     | 2.31 |
| 31          | chloroprene              | 0.380  | 0.385   | -1.3   | 98    | 0.00     | 2.30 |
| 32          | acrylonitrile            | 0.077  | 0.080   | -3.9   | 94    | 0.00     | 2.33 |
| 33          | vinyl acetate            | 0.059  | 0.059   | 0.0    | 92    | 0.00     | 2.41 |



# Continuing Calibration Summary

Page 2 of 3

Job Number: JD54605

Sample:

V1U2018-CC2015

Account: FLSNYYNY Fleming-Lee Shue, Inc.

Lab FileID:

1U49688.D

Project: Info Tech High School, 21-16 44th Road, Long Island City, NY

|       |                           |        |        |         |    |      |      |
|-------|---------------------------|--------|--------|---------|----|------|------|
| 34    | ethyl acetate             | 0.034  | 0.031  | 8.8     | 85 | 0.00 | 2.72 |
| 35    | 2,2-dichloropropane       | 0.441  | 0.420  | 4.8     | 91 | 0.00 | 2.62 |
| 36    | cis-1,2-dichloroethene    | 0.307  | 0.285  | 7.2     | 89 | 0.00 | 2.56 |
| 37    | propionitrile             | 0.045  | 0.046  | -2.2    | 97 | 0.00 | 2.98 |
| 38    | methyl acrylate           | 0.061  | 0.061  | 0.0     | 88 | 0.00 | 2.74 |
| 39    | bromochloromethane        | 0.147  | 0.140  | 4.8     | 87 | 0.00 | 2.66 |
| 40    | tetrahydrofuran           | 0.043  | 0.040  | 7.0     | 85 | 0.00 | 2.77 |
| <hr/> |                           |        |        |         |    |      |      |
|       |                           | True   | Calc.  | % Drift |    |      |      |
| 41    | chloroform                | 50.000 | 61.444 | -22.9#  | 99 | 0.00 | 2.68 |
| <hr/> |                           |        |        |         |    |      |      |
|       |                           | AvgRF  | CCRF   | % Dev   |    |      |      |
| 42 S  | dibromofluoromethane (s)  | 0.485  | 0.438  | 9.7     | 81 | 0.00 | 2.77 |
| 43    | methacrylonitrile         | 0.144  | 0.134  | 6.9     | 94 | 0.00 | 2.99 |
| 44    | 1,1,1-trichloroethane     | 0.504  | 0.491  | 2.6     | 90 | 0.00 | 2.80 |
| 45    | cyclohexane               | 0.413  | 0.430  | -4.1    | 93 | 0.00 | 2.67 |
| 46    | 1,1-dichloropropene       | 0.395  | 0.388  | 1.8     | 94 | 0.00 | 2.86 |
| 47    | carbon tetrachloride      | 0.506  | 0.485  | 4.2     | 91 | 0.00 | 2.77 |
| 48    | isobutyl alcohol          | 0.031  | 0.033  | -6.5    | 94 | 0.00 | 3.03 |
| 49    | tert-amyl alcohol         | 0.018  | 0.016  | 11.1    | 94 | 0.00 | 3.10 |
| <hr/> |                           |        |        |         |    |      |      |
| 50 I  | 1,4-difluorobenzene       | 1.000  | 1.000  | 0.0     | 86 | 0.00 | 3.29 |
| 51 S  | 1,2-dichloroethane-d4 (s) | 0.395  | 0.416  | -5.3    | 92 | 0.00 | 3.05 |
| 52    | iso-octane                | 0.712  | 0.701  | 1.5     | 94 | 0.00 | 2.91 |
| 53 M  | benzene                   | 0.799  | 0.825  | -3.3    | 97 | 0.00 | 2.99 |
| 54    | tert-amyl methyl ether    | 0.544  | 0.582  | -7.0    | 94 | 0.00 | 3.03 |
| 55    | heptane                   | 0.127  | 0.126  | 0.8     | 93 | 0.00 | 2.95 |
| 56    | isopropyl acetate         | 0.054  | 0.054  | 0.0     | 89 | 0.00 | 3.18 |
| 57    | 1,2-dichloroethane        | 0.279  | 0.285  | -2.2    | 98 | 0.00 | 3.08 |
| 58    | n-butyl alcohol           | 0.007  | 0.007  | 0.0     | 92 | 0.00 | 3.42 |
| 59    | ethyl acrylate            | 0.279  | 0.282  | -1.1    | 94 | 0.00 | 3.55 |
| 60    | trichloroethene           | 0.252  | 0.255  | -1.2    | 93 | 0.00 | 3.29 |
| 61    | 2-nitropropane            | 0.072  | 0.072  | 0.0     | 95 | 0.00 | 4.25 |
| 62    | 2-chloroethyl vinyl ether | 0.104  | 0.094  | 9.6     | 75 | 0.00 | 3.92 |
| 63    | methyl methacrylate       | 0.063  | 0.063  | 0.0     | 90 | 0.00 | 3.67 |
| 64    | 1,2-dichloropropane       | 0.181  | 0.189  | -4.4    | 95 | 0.00 | 3.57 |
| 65    | methylcyclohexane         | 0.254  | 0.250  | 1.6     | 98 | 0.00 | 3.29 |
| 66    | dibromomethane            | 0.147  | 0.150  | -2.0    | 92 | 0.00 | 3.52 |
| 67    | bromodichloromethane      | 0.305  | 0.313  | -2.6    | 95 | 0.00 | 3.60 |
| 68    | epichlorohydrin           | 0.026  | 0.025  | 3.8     | 93 | 0.00 | 4.11 |
| 69    | cis-1,3-dichloropropene   | 0.316  | 0.310  | 1.9     | 90 | 0.00 | 3.96 |
| 70    | 4-methyl-2-pentanone      | 0.093  | 0.095  | -2.2    | 95 | 0.00 | 4.34 |
| 71    | 3-methyl-1-butanol        | 0.007  | 0.008  | -14.3   | 92 | 0.00 | 4.19 |
| <hr/> |                           |        |        |         |    |      |      |
| 72 I  | chlorobenzene-d5          | 1.000  | 1.000  | 0.0     | 87 | 0.00 | 5.09 |
| 73 S  | toluene-d8 (s)            | 1.261  | 1.210  | 4.0     | 86 | 0.00 | 4.08 |
| 74    | toluene                   | 0.552  | 0.560  | -1.4    | 95 | 0.00 | 4.12 |
| 75    | ethyl methacrylate        | 0.280  | 0.279  | 0.4     | 94 | 0.00 | 4.45 |
| 76    | trans-1,3-dichloropropene | 0.314  | 0.327  | -4.1    | 95 | 0.00 | 4.36 |
| 77    | 1,1,2-trichloroethane     | 0.164  | 0.171  | -4.3    | 95 | 0.00 | 4.47 |
| 78    | tetrachloroethene         | 0.281  | 0.293  | -4.3    | 94 | 0.00 | 4.36 |
| 79    | 2-hexanone                | 0.104  | 0.099  | 4.8     | 91 | 0.00 | 4.88 |
| 80    | 1,3-dichloropropane       | 0.314  | 0.312  | 0.6     | 92 | 0.00 | 4.65 |
| 81    | butyl acetate             | 0.134  | 0.133  | 0.7     | 91 | 0.00 | 4.81 |
| 82    | dibromochloromethane      | 0.265  | 0.260  | 1.9     | 91 | 0.00 | 4.59 |
| 83    | 1,2-dibromoethane         | 0.236  | 0.228  | 3.4     | 91 | 0.00 | 4.75 |
| 84    | n-butyl ether             | 0.760  | 0.758  | 0.3     | 93 | 0.00 | 5.03 |
| 85    | chlorobenzene             | 0.644  | 0.654  | -1.6    | 94 | 0.00 | 5.10 |
| 86    | 1,1,1,2-tetrachloroethane | 0.232  | 0.240  | -3.4    | 92 | 0.00 | 5.14 |
| 87    | ethylbenzene              | 1.079  | 1.107  | -2.6    | 96 | 0.00 | 5.12 |

# Continuing Calibration Summary

Page 3 of 3

**Job Number:** JD54605

**Sample:**

V1U2018-CC2015

**Account:** FLSNYYNY Fleming-Lee Shue, Inc.

**Lab FileID:**

1U49688.D

**Project:** Info Tech High School, 21-16 44th Road, Long Island City, NY

|      |                           |       |       |       |    |      |      |
|------|---------------------------|-------|-------|-------|----|------|------|
| 88   | m,p-xylene                | 0.391 | 0.423 | -8.2  | 95 | 0.00 | 5.22 |
| 89   | o-xylene                  | 0.372 | 0.379 | -1.9  | 92 | 0.00 | 5.53 |
| 90   | styrene                   | 0.609 | 0.646 | -6.1  | 93 | 0.00 | 5.56 |
| 91   | bromoform                 | 0.208 | 0.206 | 1.0   | 88 | 0.00 | 5.58 |
| 92   | butyl acrylate            | 0.362 | 0.377 | -4.1  | 95 | 0.00 | 5.65 |
| 93   | isopropylbenzene          | 1.018 | 1.055 | -3.6  | 94 | 0.00 | 5.76 |
| 94   | cis-1,4-dichloro-2-butene | 0.111 | 0.080 | 27.9# | 64 | 0.00 | 6.01 |
| 95 I | 1,4-dichlorobenzene-d4    | 1.000 | 1.000 | 0.0   | 87 | 0.00 | 6.83 |
| 96 S | 4-bromofluorobenzene (s)  | 0.935 | 0.905 | 3.2   | 86 | 0.00 | 5.97 |
| 97   | bromobenzene              | 0.572 | 0.571 | 0.2   | 92 | 0.00 | 6.05 |
| 98   | 1,1,2,2-tetrachloroethane | 0.635 | 0.603 | 5.0   | 94 | 0.00 | 6.11 |
| 99   | trans-1,4-dichloro-2-bute | 0.147 | 0.115 | 21.8# | 74 | 0.00 | 6.25 |
| 100  | 1,2,3-trichloropropane    | 0.196 | 0.205 | -4.6  | 91 | 0.00 | 6.22 |
| 101  | n-propylbenzene           | 2.465 | 2.540 | -3.0  | 96 | 0.00 | 6.07 |
| 102  | 2-chlorotoluene           | 0.530 | 0.524 | 1.1   | 91 | 0.00 | 6.19 |
| 103  | 4-chlorotoluene           | 1.437 | 1.453 | -1.1  | 95 | 0.00 | 6.31 |
| 104  | 1,3,5-trimethylbenzene    | 1.649 | 1.702 | -3.2  | 95 | 0.00 | 6.22 |
| 105  | tert-butylbenzene         | 1.484 | 1.478 | 0.4   | 92 | 0.00 | 6.46 |
| 106  | 1,2,4-trimethylbenzene    | 1.601 | 1.657 | -3.5  | 95 | 0.00 | 6.52 |
| 107  | sec-butylbenzene          | 2.154 | 2.202 | -2.2  | 95 | 0.00 | 6.61 |
| 108  | 1,3-dichlorobenzene       | 1.018 | 1.005 | 1.3   | 92 | 0.00 | 6.77 |
| 109  | p-isopropyltoluene        | 1.748 | 1.804 | -3.2  | 94 | 0.00 | 6.72 |
| 110  | 1,4-dichlorobenzene       | 1.021 | 1.014 | 0.7   | 91 | 0.00 | 6.84 |
| 111  | 1,2-dichlorobenzene       | 0.932 | 0.905 | 2.9   | 91 | 0.00 | 7.15 |
| 112  | 1,2,3-trimethylbenzene    | 1.578 | 1.661 | -5.3  | 96 | 0.00 | 6.86 |
| 113  | n-butylbenzene            | 0.866 | 0.925 | -6.8  | 96 | 0.00 | 7.04 |
| 114  | 1,2-dibromo-3-chloropropa | 0.180 | 0.160 | 11.1  | 87 | 0.00 | 7.72 |
| 115  | 1,3,5-trichlorobenzene    | 0.648 | 0.613 | 5.4   | 90 | 0.00 | 7.75 |
| 116  | 1,2,4-trichlorobenzene    | 0.533 | 0.492 | 7.7   | 88 | 0.00 | 8.19 |
| 117  | hexachlorobutadiene       | 0.260 | 0.230 | 11.5  | 89 | 0.00 | 8.18 |
| 118  | naphthalene               | 1.599 | 1.487 | 7.0   | 88 | 0.00 | 8.40 |
| 119  | 1,2,3-trichlorobenzene    | 0.529 | 0.491 | 7.2   | 88 | 0.00 | 8.53 |
| 120  | hexachloroethane          | 0.315 | 0.339 | -7.6  | 94 | 0.00 | 7.14 |
| 121  | benzyl chloride           | 0.217 | 0.216 | 0.5   | 88 | 0.00 | 7.03 |
| 122  | 2-methylnaphthalene       | 0.564 | 0.535 | 5.1   | 82 | 0.00 | 9.08 |

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

1U49570.D M1U2015.M

Thu Nov 03 15:17:32 2022

Initial Calibration Summary

Job Number: JD54605

Account: FLSNyny Fleming-Lee Shue, Inc.

Project: Info Tech High School, 21-16 44th Road, Long Island City, NY

Sample: V2U2015-ICC2015

Lab FileID: 2U49571.D

Page 1 of 5

| Response Factor Report GCMS-U                                      |                                                    |       |            |       |            |       |            |       |       |       |          |
|--------------------------------------------------------------------|----------------------------------------------------|-------|------------|-------|------------|-------|------------|-------|-------|-------|----------|
| Method : C:\MSDCHEM\1\METHODS\M2U2015.M (RTE Integrator)           |                                                    |       |            |       |            |       |            |       |       |       |          |
| Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um |                                                    |       |            |       |            |       |            |       |       |       |          |
| Last Update : Wed Nov 02 12:34:58 2022                             |                                                    |       |            |       |            |       |            |       |       |       |          |
| Response via : Initial Calibration                                 |                                                    |       |            |       |            |       |            |       |       |       |          |
| Calibration Files                                                  |                                                    |       |            |       |            |       |            |       |       |       |          |
| 4                                                                  | =2U49565.D                                         | 0.5   | =2U49559.D | 8     | =2U49567.D | 50    | =2U49571.D |       |       |       |          |
| 100                                                                | =2U49573.D                                         | 1     | =2U49561.D | 200   | =2U49575.D | 20    | =2U49569.D |       |       |       |          |
| 2                                                                  | =2U49563.D                                         | 0.2   | =2U49557.D | =     |            | =     |            |       |       |       |          |
| Compound                                                           | 4                                                  | 0.5   | 8          | 50    | 100        | 1     | 200        | 20    | 2     | 0.2   | Avg %RSD |
| -----                                                              |                                                    |       |            |       |            |       |            |       |       |       |          |
| 1) I tert butyl alcohol-d9                                         | -----ISTD-----                                     |       |            |       |            |       |            |       |       |       |          |
| 2) ethanol                                                         | 0.046                                              | 0.047 | 0.044      | 0.039 | 0.054      | 0.031 | 0.044      | 0.047 |       | 0.044 | 15.82    |
| 3) tertiary butyl alcohol                                          | 0.668                                              | 0.698 | 0.660      | 0.616 | 0.839      | 0.579 | 0.630      | 0.713 |       | 0.675 | 11.73    |
| 4) 1,4-dioxane                                                     | 0.056                                              | 0.043 | 0.060      | 0.062 | 0.062      | 0.054 | 0.061      | 0.058 | 0.054 | 0.057 | 10.86    |
| 5) I pentafluorobenzene                                            | -----ISTD-----                                     |       |            |       |            |       |            |       |       |       |          |
| 6) chlorodifluoromethane                                           | 0.272                                              | 0.327 | 0.322      | 0.286 | 0.273      | 0.319 | 0.284      | 0.305 | 0.314 | 0.324 | 7.19     |
| 7) dichlorodifluoromethane                                         | 0.445                                              | 0.404 | 0.375      | 0.415 | 0.426      | 0.493 | 0.444      | 0.426 | 0.485 | 0.435 | 8.59     |
| 8) chloromethane                                                   | 0.329                                              | 0.355 | 0.248      | 0.269 | 0.268      | 0.394 | 0.285      | 0.286 | 0.348 | 0.356 | 15.50    |
| 9) vinyl chloride                                                  | 0.388                                              | 0.389 | 0.319      | 0.334 | 0.321      | 0.427 | 0.328      | 0.359 | 0.391 | 0.388 | 10.27    |
| 10) 1,3-butadiene                                                  | *This compound fails Initial Calibration criteria* |       |            |       |            |       |            |       |       |       |          |
|                                                                    | 0.245                                              | 0.250 | 0.197      | 0.177 |            | 0.174 | 0.216      |       |       | 0.210 | 15.77    |
| 11) bromomethane                                                   | 0.441                                              | 0.382 | 0.303      | 0.265 |            | 0.237 | 0.367      | 0.476 |       | 0.353 | 25.26    |
| ----- Quadratic regression ----- Coefficient = 0.9973              |                                                    |       |            |       |            |       |            |       |       |       |          |
| Response Ratio = 0.00866 + 0.31703 *A + -0.02141 *A^2              |                                                    |       |            |       |            |       |            |       |       |       |          |
| 12) chloroethane                                                   | 0.314                                              | 0.248 | 0.269      | 0.267 | 0.386      | 0.238 | 0.285      | 0.345 |       | 0.294 | 17.36    |
| 13) trichlorofluoromethane                                         | 0.935                                              | 0.914 | 0.786      | 0.836 | 0.828      | 1.065 | 0.767      | 0.889 | 0.984 | 0.917 | 10.26    |
| 14) ethyl ether                                                    | 0.187                                              | 0.210 | 0.181      | 0.159 | 0.239      | 0.171 | 0.194      | 0.183 |       | 0.191 | 12.87    |
| 15) acrolein                                                       | 0.059                                              | 0.060 | 0.059      | 0.053 | 0.068      | 0.059 | 0.057      | 0.066 |       | 0.060 | 7.95     |
| 16) freon 113                                                      | 0.274                                              | 0.282 | 0.316      | 0.276 | 0.273      | 0.292 | 0.278      | 0.283 | 0.280 | 0.284 | 4.71     |
| 17) 1,1-dichloroethene                                             | 0.407                                              | 0.479 | 0.487      | 0.400 | 0.364      | 0.449 | 0.372      | 0.426 | 0.432 | 0.397 | 9.84     |
| 18) acetone                                                        | 0.032                                              | 0.048 | 0.042      | 0.046 | 0.038      | 0.044 | 0.028      | 0.035 | 0.048 | 0.040 | 17.95    |
| 19) acetonitrile                                                   | 0.042                                              | 0.048 | 0.038      | 0.032 |            | 0.029 | 0.041      | 0.043 |       | 0.039 | 16.43    |
| 20) iodomethane                                                    | 0.136                                              | 0.169 | 0.279      | 0.303 |            | 0.327 | 0.213      | 0.144 |       | 0.224 | 35.04    |
| ----- Linear regression ----- Coefficient = 0.9923                 |                                                    |       |            |       |            |       |            |       |       |       |          |
| Response Ratio = -0.01310 + 0.31433 *A                             |                                                    |       |            |       |            |       |            |       |       |       |          |

6.7.9

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# Initial Calibration Summary

**Job Number:** JD54605

**Sample:** V2U2015-ICC2015

**Account:** FLSNYYNY Fleming-Lee Shue, Inc.

**Lab FileID:** 2U49571.D

**Project:** Info Tech High School, 21-16 44th Road, Long Island City, NY

|                                                    |                          |       |       |       |       |       |       |       |       |       |
|----------------------------------------------------|--------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 21)                                                | carbon disulfide         | 0.797 | 0.907 | 0.751 | 0.678 | 0.660 | 0.809 | 0.835 | 0.777 | 11.25 |
| 22)                                                | methylene chloride       | 0.268 | 0.303 | 0.264 | 0.239 | 0.244 | 0.278 | 0.307 | 0.272 | 9.78  |
| 23)                                                | methyl acetate           | 0.065 | 0.058 | 0.074 | 0.062 | 0.056 | 0.071 | 0.056 | 0.066 | 9.98  |
| 24)                                                | methyl tert butyl ether  | 0.745 | 0.845 | 0.848 | 0.750 | 0.658 | 0.799 | 0.653 | 0.779 | 9.57  |
| 25)                                                | trans-1,2-dichloroethene | 0.440 | 0.445 | 0.354 | 0.319 | 0.669 | 0.387 | 0.502 | 0.445 | 26.06 |
| ----- Linear regression ----- Coefficient = 0.9944 |                          |       |       |       |       |       |       |       |       |       |
| Response Ratio = 0.00805 + 0.33269 *A              |                          |       |       |       |       |       |       |       |       |       |
| 26)                                                | hexane                   | 0.540 | 0.641 | 0.534 | 0.475 | 0.468 | 0.578 | 0.596 | 0.547 | 11.56 |
| 27)                                                | di-isopropyl ether       | 0.685 | 0.786 | 0.759 | 0.671 | 0.602 | 0.776 | 0.622 | 0.710 | 9.19  |
| 28)                                                | ethyl tert-butyl ether   | 0.696 | 0.802 | 0.820 | 0.713 | 0.640 | 0.751 | 0.649 | 0.741 | 8.25  |
| 29)                                                | 2-butanone               | 0.051 | 0.048 | 0.058 | 0.054 | 0.045 | 0.057 | 0.041 | 0.051 | 10.53 |
| 30)                                                | 1,1-dichloroethane       | 0.477 | 0.514 | 0.521 | 0.464 | 0.420 | 0.521 | 0.418 | 0.491 | 8.36  |
| 31)                                                | chloroprene              | 0.390 | 0.434 | 0.377 | 0.333 | 0.428 | 0.344 | 0.393 | 0.391 | 9.20  |
| 32)                                                | acrylonitrile            | 0.084 | 0.078 | 0.087 | 0.073 | 0.086 | 0.080 | 0.083 | 0.092 | 7.14  |
| 33)                                                | vinyl acetate            | 0.055 | 0.063 | 0.059 | 0.055 | 0.059 | 0.065 | 0.055 | 0.059 | 6.98  |
| 34)                                                | ethyl acetate            | 0.034 | 0.042 | 0.037 | 0.032 | 0.033 | 0.039 | 0.035 | 0.036 | 10.08 |
| 35)                                                | 2,2-dichloropropane      | 0.426 | 0.501 | 0.429 | 0.381 | 0.473 | 0.371 | 0.444 | 0.466 | 10.21 |
| 36)                                                | cis-1,2-dichloroethene   | 0.288 | 0.351 | 0.326 | 0.297 | 0.277 | 0.332 | 0.279 | 0.307 | 8.23  |
| 37)                                                | propionitrile            | 0.056 | 0.062 | 0.051 | 0.043 | 0.043 | 0.054 | 0.054 | 0.052 | 13.45 |
| 38)                                                | methyl acrylate          | 0.064 | 0.066 | 0.064 | 0.056 | 0.052 | 0.056 | 0.062 | 0.055 | 8.78  |
| 39)                                                | bromochloromethane       | 0.148 | 0.152 | 0.169 | 0.144 | 0.135 | 0.161 | 0.136 | 0.152 | 7.34  |
| 40)                                                | tetrahydrofuran          | 0.048 | 0.052 | 0.049 | 0.039 | 0.038 | 0.050 | 0.055 | 0.047 | 13.31 |
| 41)                                                | chloroform               | 0.153 | 0.161 | 0.133 | 0.115 | 0.184 | 0.114 | 0.145 | 0.171 | 17.23 |
| 42)                                                | dibromofluoromethane (s) | 0.505 | 0.512 | 0.506 | 0.459 | 0.428 | 0.513 | 0.433 | 0.494 | 6.93  |
| 43)                                                | methacrylonitrile        | 0.161 | 0.169 | 0.140 | 0.118 | 0.117 | 0.149 |       | 0.142 | 15.21 |
| 44)                                                | 1,1,1-trichloroethane    | 0.475 | 0.556 | 0.556 | 0.494 | 0.449 | 0.511 | 0.435 | 0.517 | 8.19  |
| 45)                                                | cyclohexane              | 0.439 | 0.419 | 0.369 | 0.391 | 0.378 | 0.493 | 0.371 | 0.423 | 10.22 |
| 46)                                                | 1,1-dichloropropene      | 0.378 | 0.406 | 0.449 | 0.380 | 0.338 | 0.386 | 0.330 | 0.401 | 9.27  |
| 47)                                                | carbon tetrachloride     | 0.504 | 0.558 | 0.474 | 0.444 | 0.607 | 0.462 | 0.497 | 0.509 | 10.45 |
| 48)                                                | isobutyl alcohol         | 0.036 | 0.040 | 0.037 | 0.031 | 0.029 | 0.038 | 0.035 | 0.035 | 11.66 |

# Initial Calibration Summary

**Job Number:** JD54605

**Sample:** V2U2015-ICC2015

**Account:** FLSNYNY Fleming-Lee Shue, Inc.

**Lab FileID:** 2U49571.D

**Project:** Info Tech High School, 21-16 44th Road, Long Island City, NY

|       |                           |                |       |       |       |       |       |       |       |       |
|-------|---------------------------|----------------|-------|-------|-------|-------|-------|-------|-------|-------|
| 49)   | tert-amyl alcohol         | 0.021          | 0.021 | 0.018 | 0.015 | 0.015 | 0.019 | 0.021 | 0.019 | 16.44 |
| 50) I | 1,4-difluorobenzene       | -----ISTD----- |       |       |       |       |       |       |       |       |
| 51)   | 1,2-dichloroethane-d4 (s) | 0.417          | 0.410 | 0.412 | 0.385 | 0.356 | 0.415 | 0.344 | 0.401 | 6.59  |
| 52)   | iso-octane                | 0.678          | 0.725 | 0.763 | 0.682 | 0.649 | 0.749 | 0.643 | 0.731 | 6.07  |
| 53)   | benzene                   | 0.749          | 0.896 | 0.844 | 0.774 | 0.723 | 0.774 | 0.706 | 0.784 | 9.27  |
| 54)   | tert-amyl methyl ether    | 0.523          | 0.661 | 0.618 | 0.558 | 0.511 | 0.567 | 0.505 | 0.570 | 8.95  |
| 55)   | heptane                   | 0.110          | 0.136 | 0.137 | 0.122 | 0.118 | 0.125 | 0.109 | 0.127 | 8.86  |
| 56)   | isopropyl acetate         | 0.052          | 0.053 | 0.057 | 0.056 | 0.055 | 0.058 | 0.055 | 0.056 | 3.64  |
| 57)   | 1,2-dichloroethane        | 0.277          | 0.306 | 0.267 | 0.240 | 0.339 | 0.240 | 0.272 | 0.285 | 11.80 |
| 58)   | n-butyl alcohol           | 0.009          | 0.009 | 0.010 | 0.009 | 0.008 | 0.011 | 0.008 | 0.009 | 9.72  |
| 59)   | ethyl acrylate            | 0.280          | 0.310 | 0.310 | 0.289 | 0.275 | 0.312 | 0.283 | 0.286 | 8.96  |
| 60)   | trichloroethene           | 0.221          | 0.271 | 0.258 | 0.252 | 0.259 | 0.252 | 0.258 | 0.243 | 7.94  |
| 61)   | 2-nitropropane            | 0.078          | 0.081 | 0.077 | 0.075 | 0.084 | 0.076 | 0.078 | 0.078 | 4.32  |
| 62)   | 2-chloroethyl vinyl ether | 0.112          | 0.132 | 0.130 | 0.124 | 0.105 | 0.125 | 0.128 | 0.103 | 9.63  |
| 63)   | methyl methacrylate       | 0.059          | 0.067 | 0.071 | 0.068 | 0.069 | 0.056 | 0.068 | 0.062 | 8.54  |
| 64)   | 1,2-dichloropropane       | 0.182          | 0.189 | 0.199 | 0.181 | 0.175 | 0.184 | 0.178 | 0.188 | 9.58  |
| 65)   | methylcyclohexane         | 0.255          | 0.280 | 0.234 | 0.221 | 0.216 | 0.247 | 0.320 | 0.253 | 14.43 |
| 66)   | dibromomethane            | 0.144          | 0.187 | 0.161 | 0.149 | 0.144 | 0.157 | 0.142 | 0.151 | 10.18 |
| 67)   | bromodichloromethane      | 0.288          | 0.340 | 0.311 | 0.297 | 0.281 | 0.337 | 0.275 | 0.301 | 7.37  |
| 68)   | epichlorohydrin           | 0.033          | 0.033 | 0.030 | 0.027 | 0.033 | 0.027 | 0.030 | 0.034 | 9.45  |
| 69)   | cis-1,3-dichloropropene   | 0.290          | 0.331 | 0.326 | 0.319 | 0.303 | 0.331 | 0.305 | 0.316 | 6.28  |
| 70)   | 4-methyl-2-pentanone      | 0.098          | 0.106 | 0.104 | 0.099 | 0.092 | 0.109 | 0.091 | 0.096 | 6.68  |
| 71)   | 3-methyl-1-butanol        | 0.009          | 0.010 | 0.009 | 0.009 | 0.009 | 0.010 | 0.009 | 0.009 | 8.97  |
| 72) I | chlorobenzene-d5          | -----ISTD----- |       |       |       |       |       |       |       |       |
| 73)   | toluene-d8 (s)            | 1.264          | 1.264 | 1.250 | 1.181 | 1.166 | 1.254 | 1.193 | 1.233 | 3.12  |
| 74)   | toluene                   | 0.488          | 0.569 | 0.549 | 0.521 | 0.506 | 0.522 | 0.507 | 0.535 | 6.26  |
| 75)   | ethyl methacrylate        | 0.257          | 0.299 | 0.282 | 0.273 | 0.256 | 0.314 | 0.257 | 0.276 | 7.83  |
| 76)   | trans-1,3-dichloropropene | 0.293          | 0.339 | 0.325 | 0.302 | 0.284 | 0.342 | 0.287 | 0.307 | 7.51  |
| 77)   | 1,1,2-trichloroethane     | 0.159          | 0.191 | 0.179 | 0.164 | 0.152 | 0.198 | 0.151 | 0.160 | 9.92  |
| 78)   | tetrachloroethene         | 0.239          | 0.294 | 0.278 | 0.290 | 0.309 | 0.260 | 0.298 | 0.268 | 9.48  |

# Initial Calibration Summary

**Job Number:** JD54605

**Sample:** V2U2015-ICC2015

**Account:** FLSNYYY Fleming-Lee Shue, Inc.

**Lab FileID:** 2U49571.D

**Project:** Info Tech High School, 21-16 44th Road, Long Island City, NY

|      |                                        |       |       |       |       |       |       |       |       |       |       |       |       |
|------|----------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 79)  | 2-hexanone                             | 0.108 | 0.118 | 0.112 | 0.110 | 0.101 | 0.126 | 0.098 | 0.108 | 0.112 | 0.120 | 0.111 | 7.67  |
| 80)  | 1,3-dichloropropane                    | 0.294 | 0.329 | 0.327 | 0.302 | 0.286 | 0.328 | 0.290 | 0.311 | 0.309 | 0.315 | 0.309 | 5.13  |
| 81)  | butyl acetate                          | 0.136 | 0.142 | 0.148 | 0.138 | 0.133 | 0.151 | 0.137 | 0.139 | 0.132 |       | 0.140 | 4.59  |
| 82)  | dibromochloromethane                   | 0.238 | 0.298 | 0.264 | 0.262 | 0.266 | 0.284 | 0.268 | 0.251 | 0.229 | 0.319 | 0.268 | 10.09 |
| 83)  | 1,2-dibromoethane                      | 0.207 | 0.234 | 0.235 | 0.236 | 0.228 | 0.245 | 0.230 | 0.233 | 0.216 | 0.258 | 0.232 | 6.05  |
| 84)  | n-butyl ether                          | 0.708 | 0.734 | 0.763 | 0.755 | 0.732 | 0.770 | 0.732 | 0.755 | 0.679 | 0.801 | 0.743 | 4.59  |
| 85)  | chlorobenzene                          | 0.575 | 0.694 | 0.648 | 0.636 | 0.613 | 0.654 | 0.608 | 0.619 | 0.603 | 0.651 | 0.630 | 5.31  |
| 86)  | 1,1,1,2-tetrachloroethane              | 0.202 | 0.224 | 0.223 | 0.241 | 0.236 | 0.250 | 0.228 | 0.221 | 0.214 |       | 0.227 | 6.47  |
| 87)  | ethylbenzene                           | 0.975 | 1.370 | 1.109 | 1.050 | 0.973 | 1.188 | 0.941 | 1.060 | 1.049 |       | 1.079 | 12.28 |
| 88)  | m,p-xylene                             | 0.360 | 0.435 | 0.408 | 0.415 | 0.384 | 0.378 | 0.370 | 0.400 | 0.362 | 0.348 | 0.386 | 7.19  |
| 89)  | o-xylene                               | 0.342 | 0.440 | 0.387 | 0.390 | 0.380 | 0.375 | 0.374 | 0.371 | 0.331 | 0.378 | 0.377 | 7.72  |
| 90)  | styrene                                | 0.558 | 0.619 | 0.644 | 0.658 | 0.622 | 0.596 | 0.606 | 0.619 | 0.562 | 0.562 | 0.605 | 5.76  |
| 91)  | bromoform                              | 0.197 | 0.211 | 0.204 | 0.230 | 0.239 | 0.228 | 0.233 | 0.203 | 0.185 | 0.183 | 0.211 | 9.53  |
| 92)  | butyl acrylate                         | 0.371 | 0.417 | 0.400 | 0.389 | 0.365 | 0.431 | 0.371 | 0.387 | 0.375 | 0.355 | 0.386 | 6.22  |
| 93)  | isopropylbenzene                       | 0.924 | 1.048 | 1.067 | 1.085 | 1.015 | 0.994 | 0.961 | 1.036 | 0.966 | 0.931 | 1.003 | 5.63  |
| 94)  | cis-1,4-dichloro-2-butene              | 0.118 | 0.128 | 0.124 | 0.129 | 0.123 | 0.131 | 0.127 | 0.123 | 0.122 |       | 0.125 | 3.33  |
| 95)  | I 1,4-dichlorobenzene-d -----ISTD----- |       |       |       |       |       |       |       |       |       |       |       |       |
| 96)  | 4-bromofluorobenzene (s)               | 0.913 | 0.920 | 0.911 | 0.826 | 0.822 | 0.918 | 0.868 | 0.913 | 0.910 | 0.921 | 0.892 | 4.39  |
| 97)  | bromobenzene                           | 0.501 | 0.631 | 0.574 | 0.531 | 0.588 | 0.587 | 0.603 | 0.539 | 0.512 | 0.600 | 0.567 | 7.65  |
| 98)  | 1,1,2,2-tetrachloroethane              | 0.636 |       | 0.662 | 0.552 | 0.519 | 0.757 | 0.534 | 0.617 | 0.599 |       | 0.610 | 12.82 |
| 99)  | trans-1,4-dichloro-2-butene            | 0.151 |       | 0.164 | 0.141 | 0.135 |       | 0.143 | 0.160 | 0.158 |       | 0.150 | 7.25  |
| 100) | 1,2,3-trichloropropane                 | 0.210 | 0.219 | 0.211 | 0.189 | 0.178 | 0.210 | 0.178 | 0.200 | 0.203 |       | 0.200 | 7.48  |
| 101) | n-propylbenzene                        | 2.255 | 2.553 | 2.516 | 2.260 | 2.148 | 2.453 | 2.124 | 2.442 | 2.247 | 2.228 | 2.322 | 6.65  |
| 102) | 2-chlorotoluene                        | 0.465 | 0.545 | 0.529 | 0.495 | 0.500 | 0.483 | 0.497 | 0.511 | 0.478 | 0.477 | 0.498 | 4.99  |
| 103) | 4-chlorotoluene                        | 1.310 | 1.439 | 1.481 | 1.304 | 1.241 | 1.443 | 1.235 | 1.425 | 1.382 | 1.423 | 1.368 | 6.50  |
| 104) | 1,3,5-trimethylbenzene                 | 1.452 | 1.639 | 1.671 | 1.577 | 1.505 | 1.640 | 1.472 | 1.653 | 1.506 | 1.599 | 1.571 | 5.18  |
| 105) | tert-butylbenzene                      | 1.314 | 1.527 | 1.462 | 1.428 | 1.398 | 1.367 | 1.367 | 1.471 | 1.302 | 1.314 | 1.395 | 5.46  |
| 106) | 1,2,4-trimethylbenzene                 | 1.463 | 1.632 | 1.647 | 1.577 | 1.493 | 1.488 | 1.492 | 1.613 | 1.469 | 1.528 | 1.540 | 4.59  |
| 107) | sec-butylbenzene                       | 1.894 | 2.173 | 2.198 | 2.053 | 1.936 | 2.024 | 1.888 | 2.171 | 1.931 | 2.072 | 2.034 | 5.87  |
| 108) | 1,3-dichlorobenzene                    | 0.890 | 1.109 | 1.005 | 1.007 | 1.000 | 0.992 | 0.983 | 0.994 | 0.885 | 1.073 | 0.994 | 6.93  |

# Initial Calibration Summary

Page 5 of 5

**Job Number:** JD54605

**Sample:**

V2U2015-ICC2015

**Account:** FLSNYYNY Fleming-Lee Shue, Inc.

**Lab FileID:**

2U49571.D

**Project:** Info Tech High School, 21-16 44th Road, Long Island City, NY

|      |                             |       |       |       |       |       |       |       |       |       |       |       |       |
|------|-----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 109) | p-isopropyltoluene          | 1.532 | 1.539 | 1.791 | 1.756 | 1.706 | 1.604 | 1.681 | 1.783 | 1.554 | 1.697 | 1.664 | 6.03  |
| 110) | 1,4-dichlorobenzene         | 0.945 |       | 1.034 | 1.015 | 0.978 | 1.058 | 0.979 | 0.990 | 0.950 |       | 0.994 | 3.99  |
| 111) | 1,2-dichlorobenzene         | 0.851 | 0.882 | 0.954 | 0.933 | 0.911 | 0.998 | 0.905 | 0.927 | 0.862 | 0.866 | 0.909 | 5.05  |
| 112) | 1,2,3-trimethylbenzene      | 1.493 | 1.751 | 1.663 | 1.554 | 1.457 | 1.688 | 1.447 | 1.605 | 1.473 | 1.599 | 1.573 | 6.73  |
| 113) | n-butylbenzene              | 0.779 | 0.879 | 0.937 | 0.869 | 0.826 | 0.844 | 0.835 | 0.929 | 0.795 | 0.734 | 0.843 | 7.61  |
| 114) | 1,2-dibromo-3-chloropropane | 0.177 |       | 0.192 | 0.186 | 0.204 | 0.191 | 0.223 | 0.190 | 0.166 |       | 0.191 | 8.91  |
| 115) | 1,3,5-trichlorobenzene      | 0.605 | 0.656 | 0.675 | 0.643 | 0.743 | 0.653 | 0.801 | 0.654 | 0.596 | 0.659 | 0.668 | 9.15  |
| 116) | 1,2,4-trichlorobenzene      | 0.499 | 0.592 | 0.535 | 0.521 | 0.592 | 0.540 | 0.660 | 0.551 | 0.506 | 0.530 | 0.553 | 8.86  |
| 117) | hexachlorobutadiene         | 0.241 | 0.287 | 0.275 | 0.254 | 0.292 | 0.268 | 0.332 | 0.274 | 0.233 |       | 0.273 | 10.87 |
| 118) | naphthalene                 | 1.344 |       | 1.506 | 1.521 | 1.680 |       | 1.796 | 1.510 |       |       | 1.559 | 10.09 |
| 119) | 1,2,3-trichlorobenzene      | 0.468 | 0.498 | 0.531 | 0.505 | 0.595 | 0.445 | 0.655 | 0.533 | 0.440 |       | 0.519 | 13.55 |
| 120) | hexachloroethane            | 0.279 | 0.275 | 0.325 | 0.327 | 0.326 | 0.290 | 0.329 | 0.330 | 0.263 |       | 0.305 | 9.04  |
| 121) | benzyl chloride             | 0.180 | 0.187 | 0.208 | 0.233 | 0.230 | 0.233 | 0.239 | 0.221 | 0.191 |       | 0.214 | 10.60 |
| 122) | 2-methylnaphthalene         | 0.441 |       | 0.518 | 0.496 | 0.583 |       | 0.491 |       |       |       | 0.506 | 10.16 |

(#) = Out of Range ### Number of calibration levels exceeded format ###

M2U2015.M

Wed Nov 02 12:36:14 2022

## Initial Calibration Verification

Page 1 of 3

Job Number: JD54605

Sample: V2U2015-ICV2015

Account: FLSNYYNY Fleming-Lee Shue, Inc.

Lab FileID: 2U49581.D

Project: Info Tech High School, 21-16 44th Road, Long Island City, NY

## Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\VU2015\2U49581.D

Vial: 27

Acq On : 28 Oct 2022 11:44 pm

Operator: edwardd

Sample : icv2015-50

Inst : GCMS-U

Misc : MS63374,V2U2015,5,,,1

Multiplr: 1.00

MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M2U2015.M (RTE Integrator)

Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um

Last Update : Wed Nov 02 12:34:58 2022

Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min

Max. RRF Dev : 30% Max. Rel. Area : 200%

|     | Compound                 | AvgRF  | CCRF    | %Dev         | Area% | Dev(min) | R.T. |
|-----|--------------------------|--------|---------|--------------|-------|----------|------|
| 1 I | tert butyl alcohol-d9    | 1.000  | 1.000   | 0.0          | 102   | 0.00     | 2.06 |
| 2   | ethanol                  | 0.044  | 0.045   | -2.3         | 104   | 0.00     | 1.66 |
| 3 M | tertiary butyl alcohol   | 0.675  | 0.694   | -2.8         | 107   | 0.00     | 2.09 |
| 4   | 1,4-dioxane              | 0.057  | 0.063   | -10.5        | 102   | 0.00     | 3.71 |
| 5 I | pentafluorobenzene       | 1.000  | 1.000   | 0.0          | 104   | 0.00     | 3.00 |
| 6   | chlorodifluoromethane    |        |         | -----NA----- |       |          |      |
| 7   | dichlorodifluoromethane  | 0.435  | 0.449   | -3.2         | 113   | 0.00     | 1.07 |
| 8   | chloromethane            | 0.314  | 0.300   | 4.5          | 117   | 0.00     | 1.17 |
| 9   | vinyl chloride           | 0.365  | 0.380   | -4.1         | 119   | 0.00     | 1.21 |
| 10  | 1,3-butadiene            | 0.210  | 0.278   | -32.4#       | 147   | 0.00     | 1.21 |
|     | ----- True               | Calc.  | % Drift | -----        |       |          |      |
| 11  | bromomethane             | 50.000 | 56.346  | -12.7        | 117   | 0.00     | 1.36 |
|     | ----- AvgRF              | CCRF   | % Dev   | -----        |       |          |      |
| 12  | chloroethane             | 0.294  | 0.306   | -4.1         | 119   | 0.00     | 1.42 |
| 13  | trichlorofluoromethane   | 0.892  | 0.869   | 2.6          | 109   | 0.00     | 1.48 |
| 14  | ethyl ether              | 0.191  | 0.169   | 11.5         | 97    | 0.00     | 1.61 |
| 15  | acrolein                 | 0.060  | 0.068   | -13.3        | 121   | 0.00     | 1.85 |
| 16  | freon 113                | 0.284  | 0.249   | 12.3         | 94    | 0.00     | 1.72 |
| 17  | 1,1-dichloroethene       | 0.421  | 0.372   | 11.6         | 97    | 0.00     | 1.71 |
| 18  | acetone                  | 0.040  | 0.042   | -5.0         | 96    | 0.00     | 1.98 |
| 19  | acetonitrile             |        |         | -----NA----- |       |          |      |
|     | ----- True               | Calc.  | % Drift | -----        |       |          |      |
| 20  | iodomethane              | 50.000 | 41.828  | 16.3         | 94    | 0.00     | 1.78 |
|     | ----- AvgRF              | CCRF   | % Dev   | -----        |       |          |      |
| 21  | carbon disulfide         | 0.777  | 0.708   | 8.9          | 99    | 0.00     | 1.74 |
| 22  | methylene chloride       | 0.272  | 0.252   | 7.4          | 100   | 0.00     | 1.96 |
| 23  | methyl acetate           | 0.064  | 0.064   | 0.0          | 109   | 0.00     | 2.02 |
| 24  | methyl tert butyl ether  | 0.773  | 0.719   | 7.0          | 100   | 0.00     | 2.08 |
|     | ----- True               | Calc.  | % Drift | -----        |       |          |      |
| 25  | trans-1,2-dichloroethene | 50.000 | 49.588  | 0.8          | 100   | 0.00     | 2.03 |
|     | ----- AvgRF              | CCRF   | % Dev   | -----        |       |          |      |
| 26  | hexane                   | 0.547  | 0.566   | -3.5         | 111   | 0.00     | 2.07 |
| 27  | di-isopropyl ether       | 0.702  | 0.661   | 5.8          | 103   | 0.00     | 2.23 |
| 28  | ethyl tert-butyl ether   | 0.731  | 0.681   | 6.8          | 100   | 0.00     | 2.40 |
| 29  | 2-butanone               | 0.051  | 0.052   | -2.0         | 102   | 0.00     | 2.83 |



# Initial Calibration Verification

Page 2 of 3

Job Number: JD54605

Sample: V2U2015-ICV2015

Account: FLSNYYNY Fleming-Lee Shue, Inc.

Lab FileID: 2U49581.D

Project: Info Tech High School, 21-16 44th Road, Long Island City, NY

|    |   |                           |       |       |              |     |      |      |
|----|---|---------------------------|-------|-------|--------------|-----|------|------|
| 30 | M | 1,1-dichloroethane        | 0.481 | 0.436 | 9.4          | 98  | 0.00 | 2.31 |
| 31 |   | chloroprene               | 0.386 | 0.365 | 5.4          | 101 | 0.00 | 2.30 |
| 32 |   | acrylonitrile             |       |       | -----NA----- |     |      |      |
| 33 |   | vinyl acetate             | 0.059 | 0.045 | 23.7         | 80  | 0.00 | 2.41 |
| 34 |   | ethyl acetate             | 0.036 | 0.036 | 0.0          | 101 | 0.00 | 2.73 |
| 35 |   | 2,2-dichloropropane       | 0.437 | 0.386 | 11.7         | 94  | 0.00 | 2.62 |
| 36 |   | cis-1,2-dichloroethene    | 0.308 | 0.282 | 8.4          | 99  | 0.00 | 2.56 |
| 37 |   | propionitrile             | 0.052 | 0.046 | 11.5         | 94  | 0.00 | 2.98 |
| 38 |   | methyl acrylate           | 0.059 | 0.061 | -3.4         | 101 | 0.00 | 2.74 |
| 39 |   | bromochloromethane        | 0.149 | 0.140 | 6.0          | 101 | 0.00 | 2.66 |
| 40 |   | tetrahydrofuran           | 0.047 | 0.045 | 4.3          | 96  | 0.00 | 2.77 |
| 41 |   | chloroform                | 0.147 | 0.136 | 7.5          | 107 | 0.00 | 2.68 |
| 42 | S | dibromofluoromethane (s)  | 0.487 | 0.458 | 6.0          | 104 | 0.00 | 2.78 |
| 43 |   | methacrylonitrile         | 0.142 | 0.135 | 4.9          | 100 | 0.00 | 3.00 |
| 44 |   | 1,1,1-trichloroethane     | 0.500 | 0.463 | 7.4          | 98  | 0.00 | 2.81 |
| 45 |   | cyclohexane               | 0.419 | 0.480 | -14.6        | 128 | 0.00 | 2.68 |
| 46 |   | 1,1-dichloropropene       | 0.384 | 0.356 | 7.3          | 98  | 0.00 | 2.86 |
| 47 |   | carbon tetrachloride      | 0.507 | 0.456 | 10.1         | 101 | 0.00 | 2.77 |
| 48 |   | isobutyl alcohol          | 0.035 | 0.035 | 0.0          | 100 | 0.00 | 3.03 |
| 49 |   | tert-amyl alcohol         | 0.019 | 0.017 | 10.5         | 98  | 0.00 | 3.11 |
| 50 | I | 1,4-difluorobenzene       | 1.000 | 1.000 | 0.0          | 104 | 0.00 | 3.29 |
| 51 | S | 1,2-dichloroethane-d4 (s) | 0.396 | 0.379 | 4.3          | 102 | 0.00 | 3.05 |
| 52 |   | iso-octane                | 0.703 | 0.566 | 19.5         | 86  | 0.00 | 2.91 |
| 53 | M | benzene                   | 0.794 | 0.738 | 7.1          | 99  | 0.00 | 2.99 |
| 54 |   | tert-amyl methyl ether    | 0.568 | 0.533 | 6.2          | 99  | 0.00 | 3.03 |
| 55 |   | heptane                   | 0.122 | 0.106 | 13.1         | 90  | 0.00 | 2.95 |
| 56 |   | isopropyl acetate         | 0.055 | 0.056 | -1.8         | 104 | 0.00 | 3.18 |
| 57 |   | 1,2-dichloroethane        | 0.278 | 0.254 | 8.6          | 99  | 0.00 | 3.09 |
| 58 |   | n-butyl alcohol           | 0.009 | 0.009 | 0.0          | 105 | 0.00 | 3.42 |
| 59 |   | ethyl acrylate            | 0.297 | 0.278 | 6.4          | 100 | 0.00 | 3.56 |
| 60 |   | trichloroethene           | 0.246 | 0.251 | -2.0         | 103 | 0.00 | 3.29 |
| 61 |   | 2-nitropropane            | 0.078 | 0.085 | -9.0         | 115 | 0.00 | 4.25 |
| 62 |   | 2-chloroethyl vinyl ether | 0.120 | 0.113 | 5.8          | 90  | 0.00 | 3.92 |
| 63 |   | methyl methacrylate       | 0.064 | 0.074 | -15.6        | 113 | 0.00 | 3.67 |
| 64 |   | 1,2-dichloropropane       | 0.178 | 0.178 | 0.0          | 102 | 0.00 | 3.58 |
| 65 |   | methylcyclohexane         | 0.253 | 0.217 | 14.2         | 96  | 0.00 | 3.29 |
| 66 |   | dibromomethane            | 0.152 | 0.148 | 2.6          | 103 | 0.00 | 3.52 |
| 67 |   | bromodichloromethane      | 0.306 | 0.289 | 5.6          | 101 | 0.00 | 3.60 |
| 68 |   | epichlorohydrin           | 0.031 | 0.028 | 9.7          | 99  | 0.00 | 4.11 |
| 69 |   | cis-1,3-dichloropropene   | 0.313 | 0.306 | 2.2          | 100 | 0.00 | 3.96 |
| 70 |   | 4-methyl-2-pentanone      | 0.098 | 0.099 | -1.0         | 104 | 0.00 | 4.34 |
| 71 |   | 3-methyl-1-butanol        | 0.009 | 0.009 | 0.0          | 104 | 0.00 | 4.19 |
| 72 | I | chlorobenzene-d5          | 1.000 | 1.000 | 0.0          | 103 | 0.00 | 5.09 |
| 73 | S | toluene-d8 (s)            | 1.233 | 1.184 | 4.0          | 103 | 0.00 | 4.08 |
| 74 |   | toluene                   | 0.529 | 0.516 | 2.5          | 102 | 0.00 | 4.12 |
| 75 |   | ethyl methacrylate        | 0.272 | 0.261 | 4.0          | 99  | 0.00 | 4.46 |
| 76 |   | trans-1,3-dichloropropene | 0.307 | 0.300 | 2.3          | 102 | 0.00 | 4.36 |
| 77 |   | 1,1,2-trichloroethane     | 0.169 | 0.161 | 4.7          | 102 | 0.00 | 4.47 |
| 78 |   | tetrachloroethene         |       |       | -----NA----- |     |      |      |
| 79 |   | 2-hexanone                | 0.111 | 0.112 | -0.9         | 105 | 0.00 | 4.88 |
| 80 |   | 1,3-dichloropropane       | 0.309 | 0.302 | 2.3          | 103 | 0.00 | 4.65 |
| 81 |   | butyl acetate             | 0.140 | 0.145 | -3.6         | 108 | 0.00 | 4.81 |
| 82 |   | dibromochloromethane      | 0.268 | 0.269 | -0.4         | 106 | 0.00 | 4.59 |
| 83 |   | 1,2-dibromoethane         | 0.232 | 0.233 | -0.4         | 102 | 0.00 | 4.75 |
| 84 |   | n-butyl ether             | 0.743 | 0.755 | -1.6         | 103 | 0.00 | 5.03 |
| 85 |   | chlorobenzene             | 0.630 | 0.641 | -1.7         | 104 | 0.00 | 5.10 |
| 86 |   | 1,1,1,2-tetrachloroethane | 0.227 | 0.247 | -8.8         | 105 | 0.00 | 5.14 |
| 87 |   | ethylbenzene              | 1.079 | 1.046 | 3.1          | 103 | 0.00 | 5.12 |

## Initial Calibration Verification

Page 3 of 3

Job Number: JD54605

Sample: V2U2015-ICV2015

Account: FLSNYYNY Fleming-Lee Shue, Inc.

Lab FileID: 2U49581.D

Project: Info Tech High School, 21-16 44th Road, Long Island City, NY

|      |                           |       |       |              |     |      |      |
|------|---------------------------|-------|-------|--------------|-----|------|------|
| 88   | m,p-xylene                | 0.386 | 0.415 | -7.5         | 103 | 0.00 | 5.22 |
| 89   | o-xylene                  | 0.377 | 0.398 | -5.6         | 105 | 0.00 | 5.53 |
| 90   | styrene                   | 0.605 | 0.662 | -9.4         | 104 | 0.00 | 5.56 |
| 91   | bromoform                 | 0.211 | 0.242 | -14.7        | 109 | 0.00 | 5.58 |
| 92   | butyl acrylate            | 0.386 | 0.394 | -2.1         | 104 | 0.00 | 5.65 |
| 93   | isopropylbenzene          | 1.003 | 1.096 | -9.3         | 104 | 0.00 | 5.76 |
| 94   | cis-1,4-dichloro-2-butene | 0.125 | 0.121 | 3.2          | 96  | 0.00 | 6.01 |
| 95 I | 1,4-dichlorobenzene-d4    | 1.000 | 1.000 | 0.0          | 103 | 0.00 | 6.83 |
| 96 S | 4-bromofluorobenzene (s)  | 0.892 | 0.821 | 8.0          | 103 | 0.00 | 5.97 |
| 97   | bromobenzene              | 0.567 | 0.557 | 1.8          | 108 | 0.00 | 6.05 |
| 98   | 1,1,2,2-tetrachloroethane | 0.610 | 0.548 | 10.2         | 102 | 0.00 | 6.11 |
| 99   | trans-1,4-dichloro-2-bute | 0.150 | 0.147 | 2.0          | 108 | 0.00 | 6.25 |
| 100  | 1,2,3-trichloropropane    | 0.200 | 0.189 | 5.5          | 103 | 0.00 | 6.22 |
| 101  | n-propylbenzene           | 2.322 | 2.265 | 2.5          | 103 | 0.00 | 6.07 |
| 102  | 2-chlorotoluene           | 0.498 | 0.508 | -2.0         | 106 | 0.00 | 6.19 |
| 103  | 4-chlorotoluene           | 1.368 | 1.311 | 4.2          | 104 | 0.00 | 6.31 |
| 104  | 1,3,5-trimethylbenzene    | 1.571 | 1.593 | -1.4         | 104 | 0.00 | 6.22 |
| 105  | tert-butylbenzene         | 1.395 | 1.587 | -13.8        | 115 | 0.00 | 6.47 |
| 106  | 1,2,4-trimethylbenzene    | 1.540 | 1.574 | -2.2         | 103 | 0.00 | 6.52 |
| 107  | sec-butylbenzene          | 2.034 | 2.075 | -2.0         | 104 | 0.00 | 6.61 |
| 108  | 1,3-dichlorobenzene       | 0.994 | 1.028 | -3.4         | 105 | 0.00 | 6.77 |
| 109  | p-isopropyltoluene        | 1.664 | 1.800 | -8.2         | 106 | 0.00 | 6.72 |
| 110  | 1,4-dichlorobenzene       | 0.994 | 1.031 | -3.7         | 105 | 0.00 | 6.84 |
| 111  | 1,2-dichlorobenzene       | 0.909 | 0.949 | -4.4         | 105 | 0.00 | 7.15 |
| 112  | 1,2,3-trimethylbenzene    |       |       | -----NA----- |     |      |      |
| 113  | n-butylbenzene            | 0.843 | 0.857 | -1.7         | 102 | 0.00 | 7.04 |
| 114  | 1,2-dibromo-3-chloropropa | 0.191 | 0.188 | 1.6          | 104 | 0.00 | 7.72 |
| 115  | 1,3,5-trichlorobenzene    | 0.668 | 0.663 | 0.7          | 106 | 0.00 | 7.75 |
| 116  | 1,2,4-trichlorobenzene    | 0.553 | 0.546 | 1.3          | 108 | 0.00 | 8.19 |
| 117  | hexachlorobutadiene       | 0.273 | 0.263 | 3.7          | 107 | 0.00 | 8.18 |
| 118  | naphthalene               | 1.559 | 1.569 | -0.6         | 106 | 0.00 | 8.40 |
| 119  | 1,2,3-trichlorobenzene    | 0.519 | 0.535 | -3.1         | 109 | 0.00 | 8.53 |
| 120  | hexachloroethane          | 0.305 | 0.339 | -11.1        | 107 | 0.00 | 7.14 |
| 121  | benzyl chloride           | 0.214 | 0.212 | 0.9          | 94  | 0.00 | 7.03 |
| 122  | 2-methylnaphthalene       | 0.506 | 0.502 | 0.8          | 104 | 0.00 | 9.08 |

(# ) = Out of Range

SPCC's out = 0 CCC's out = 0

2U49571.D M2U2015.M

Wed Nov 02 12:36:02 2022

6.7.10  
6

## Initial Calibration Verification

Page 1 of 3

Job Number: JD54605

Sample: V2U2015-ICV2015

Account: FLSNYYNY Fleming-Lee Shue, Inc.

Lab FileID: 2U49583.D

Project: Info Tech High School, 21-16 44th Road, Long Island City, NY

## Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\VU2015\2U49583.D Vial: 29  
 Acq On : 29 Oct 2022 12:13 am Operator: edwardd  
 Sample : icv2015-50 Inst : GCMS-U  
 Misc : MS63374,V2U2015,5,,,,,1 Multiplr: 1.00  
 MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M2U2015.M (RTE Integrator)  
 Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um  
 Last Update : Mon Oct 31 15:40:47 2022  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 30% Max. Rel. Area : 200%

|      | Compound                 | AvgRF | CCRF         | %Dev    | Area% | Dev(min) | R.T. |
|------|--------------------------|-------|--------------|---------|-------|----------|------|
| 1 I  | tert butyl alcohol-d9    | 1.000 | 1.000        | 0.0     | 111   | 0.00     | 2.06 |
| 2    | ethanol                  |       | -----NA----- |         |       |          |      |
| 3 M  | tertiary butyl alcohol   |       | -----NA----- |         |       |          |      |
| 4    | 1,4-dioxane              |       | -----NA----- |         |       |          |      |
| 5 I  | pentafluorobenzene       | 1.000 | 1.000        | 0.0     | 103   | 0.00     | 3.00 |
| 6    | chlorodifluoromethane    | 0.303 | 0.314        | -3.6    | 114   | 0.00     | 1.09 |
| 7    | dichlorodifluoromethane  |       | -----NA----- |         |       |          |      |
| 8    | chloromethane            |       | -----NA----- |         |       |          |      |
| 9    | vinyl chloride           |       | -----NA----- |         |       |          |      |
| 10   | 1,3-butadiene            |       | -----NA----- |         |       |          |      |
|      | ----- True               |       | Calc.        | % Drift |       |          |      |
| 11   | bromomethane             |       | -----NA----- |         |       |          |      |
|      | ----- AvgRF              |       | CCRF         | % Dev   |       |          |      |
| 12   | chloroethane             |       | -----NA----- |         |       |          |      |
| 13   | trichlorofluoromethane   |       | -----NA----- |         |       |          |      |
| 14   | ethyl ether              |       | -----NA----- |         |       |          |      |
| 15   | acrolein                 |       | -----NA----- |         |       |          |      |
| 16   | freon 113                |       | -----NA----- |         |       |          |      |
| 17   | 1,1-dichloroethene       |       | -----NA----- |         |       |          |      |
| 18   | acetone                  |       | -----NA----- |         |       |          |      |
| 19   | acetonitrile             | 0.039 | 0.045        | -15.4   | 123   | 0.00     | 2.19 |
|      | ----- True               |       | Calc.        | % Drift |       |          |      |
| 20   | iodomethane              |       | -----NA----- |         |       |          |      |
|      | ----- AvgRF              |       | CCRF         | % Dev   |       |          |      |
| 21   | carbon disulfide         |       | -----NA----- |         |       |          |      |
| 22   | methylene chloride       |       | -----NA----- |         |       |          |      |
| 23   | methyl acetate           |       | -----NA----- |         |       |          |      |
| 24   | methyl tert butyl ether  |       | -----NA----- |         |       |          |      |
| 25   | trans-1,2-dichloroethene |       | -----NA----- |         |       |          |      |
| 26   | hexane                   |       | -----NA----- |         |       |          |      |
| 27   | di-isopropyl ether       |       | -----NA----- |         |       |          |      |
| 28   | ethyl tert-butyl ether   |       | -----NA----- |         |       |          |      |
| 29   | 2-butanone               |       | -----NA----- |         |       |          |      |
| 30 M | 1,1-dichloroethane       |       | -----NA----- |         |       |          |      |
| 31   | chloroprene              |       | -----NA----- |         |       |          |      |
| 32   | acrylonitrile            | 0.083 | 0.095        | -14.5   | 112   | 0.00     | 2.33 |
| 33   | vinyl acetate            |       | -----NA----- |         |       |          |      |

## Initial Calibration Verification

Page 2 of 3

Job Number: JD54605

Sample: V2U2015-ICV2015

Account: FLSNYNY Fleming-Lee Shue, Inc.

Lab FileID: 2U49583.D

Project: Info Tech High School, 21-16 44th Road, Long Island City, NY

|      |                           |       |       |      |              |      |      |
|------|---------------------------|-------|-------|------|--------------|------|------|
| 34   | ethyl acetate             |       |       |      | -----NA----- |      |      |
| 35   | 2,2-dichloropropane       |       |       |      | -----NA----- |      |      |
| 36   | cis-1,2-dichloroethene    |       |       |      | -----NA----- |      |      |
| 37   | propionitrile             |       |       |      | -----NA----- |      |      |
| 38   | methyl acrylate           |       |       |      | -----NA----- |      |      |
| 39   | bromochloromethane        |       |       |      | -----NA----- |      |      |
| 40   | tetrahydrofuran           |       |       |      | -----NA----- |      |      |
| 41   | chloroform                |       |       |      | -----NA----- |      |      |
| 42 S | dibromofluoromethane (s)  | 0.487 | 0.495 | -1.6 | 111          | 0.00 | 2.78 |
| 43   | methacrylonitrile         |       |       |      | -----NA----- |      |      |
| 44   | 1,1,1-trichloroethane     |       |       |      | -----NA----- |      |      |
| 45   | cyclohexane               |       |       |      | -----NA----- |      |      |
| 46   | 1,1-dichloropropene       |       |       |      | -----NA----- |      |      |
| 47   | carbon tetrachloride      |       |       |      | -----NA----- |      |      |
| 48   | isobutyl alcohol          |       |       |      | -----NA----- |      |      |
| 49   | tert-amyl alcohol         |       |       |      | -----NA----- |      |      |
| 50 I | 1,4-difluorobenzene       | 1.000 | 1.000 | 0.0  | 106          | 0.00 | 3.29 |
| 51 S | 1,2-dichloroethane-d4 (s) | 0.396 | 0.401 | -1.3 | 111          | 0.00 | 3.05 |
| 52   | iso-octane                |       |       |      | -----NA----- |      |      |
| 53 M | benzene                   |       |       |      | -----NA----- |      |      |
| 54   | tert-amyl methyl ether    |       |       |      | -----NA----- |      |      |
| 55   | heptane                   |       |       |      | -----NA----- |      |      |
| 56   | isopropyl acetate         |       |       |      | -----NA----- |      |      |
| 57   | 1,2-dichloroethane        |       |       |      | -----NA----- |      |      |
| 58   | n-butyl alcohol           |       |       |      | -----NA----- |      |      |
| 59   | ethyl acrylate            |       |       |      | -----NA----- |      |      |
| 60   | trichloroethene           |       |       |      | -----NA----- |      |      |
| 61   | 2-nitropropane            |       |       |      | -----NA----- |      |      |
| 62   | 2-chloroethyl vinyl ether |       |       |      | -----NA----- |      |      |
| 63   | methyl methacrylate       |       |       |      | -----NA----- |      |      |
| 64   | 1,2-dichloropropane       |       |       |      | -----NA----- |      |      |
| 65   | methylcyclohexane         |       |       |      | -----NA----- |      |      |
| 66   | dibromomethane            |       |       |      | -----NA----- |      |      |
| 67   | bromodichloromethane      |       |       |      | -----NA----- |      |      |
| 68   | epichlorohydrin           |       |       |      | -----NA----- |      |      |
| 69   | cis-1,3-dichloropropene   |       |       |      | -----NA----- |      |      |
| 70   | 4-methyl-2-pentanone      |       |       |      | -----NA----- |      |      |
| 71   | 3-methyl-1-butanol        |       |       |      | -----NA----- |      |      |
| 72 I | chlorobenzene-d5          | 1.000 | 1.000 | 0.0  | 101          | 0.00 | 5.09 |
| 73 S | toluene-d8 (s)            | 1.233 | 1.260 | -2.2 | 108          | 0.00 | 4.08 |
| 74   | toluene                   |       |       |      | -----NA----- |      |      |
| 75   | ethyl methacrylate        |       |       |      | -----NA----- |      |      |
| 76   | trans-1,3-dichloropropene |       |       |      | -----NA----- |      |      |
| 77   | 1,1,2-trichloroethane     |       |       |      | -----NA----- |      |      |
| 78   | tetrachloroethene         | 0.275 | 0.269 | 2.2  | 93           | 0.00 | 4.36 |
| 79   | 2-hexanone                |       |       |      | -----NA----- |      |      |
| 80   | 1,3-dichloropropane       |       |       |      | -----NA----- |      |      |
| 81   | butyl acetate             |       |       |      | -----NA----- |      |      |
| 82   | dibromochloromethane      |       |       |      | -----NA----- |      |      |
| 83   | 1,2-dibromoethane         |       |       |      | -----NA----- |      |      |
| 84   | n-butyl ether             |       |       |      | -----NA----- |      |      |
| 85   | chlorobenzene             |       |       |      | -----NA----- |      |      |
| 86   | 1,1,1,2-tetrachloroethane |       |       |      | -----NA----- |      |      |
| 87   | ethylbenzene              |       |       |      | -----NA----- |      |      |
| 88   | m,p-xylene                |       |       |      | -----NA----- |      |      |
| 89   | o-xylene                  |       |       |      | -----NA----- |      |      |
| 90   | styrene                   |       |       |      | -----NA----- |      |      |
| 91   | bromoform                 |       |       |      | -----NA----- |      |      |

6.7.11

6

## Initial Calibration Verification

Page 3 of 3

Job Number: JD54605

Sample: V2U2015-ICV2015

Account: FLSNYYNY Fleming-Lee Shue, Inc.

Lab FileID: 2U49583.D

Project: Info Tech High School, 21-16 44th Road, Long Island City, NY

|      |                           |       |       |      |     |      |      |  |
|------|---------------------------|-------|-------|------|-----|------|------|--|
| 92   | butyl acrylate            |       |       |      |     |      |      |  |
| 93   | isopropylbenzene          |       |       |      |     |      |      |  |
| 94   | cis-1,4-dichloro-2-butene |       |       |      |     |      |      |  |
| 95 I | 1,4-dichlorobenzene-d4    | 1.000 | 1.000 | 0.0  | 92  | 0.00 | 6.83 |  |
| 96 S | 4-bromofluorobenzene (s)  | 0.892 | 0.908 | -1.8 | 101 | 0.00 | 5.97 |  |
| 97   | bromobenzene              |       |       |      |     |      |      |  |
| 98   | 1,1,2,2-tetrachloroethane |       |       |      |     |      |      |  |
| 99   | trans-1,4-dichloro-2-bute |       |       |      |     |      |      |  |
| 100  | 1,2,3-trichloropropane    |       |       |      |     |      |      |  |
| 101  | n-propylbenzene           |       |       |      |     |      |      |  |
| 102  | 2-chlorotoluene           |       |       |      |     |      |      |  |
| 103  | 4-chlorotoluene           |       |       |      |     |      |      |  |
| 104  | 1,3,5-trimethylbenzene    |       |       |      |     |      |      |  |
| 105  | tert-butylbenzene         |       |       |      |     |      |      |  |
| 106  | 1,2,4-trimethylbenzene    |       |       |      |     |      |      |  |
| 107  | sec-butylbenzene          |       |       |      |     |      |      |  |
| 108  | 1,3-dichlorobenzene       |       |       |      |     |      |      |  |
| 109  | p-isopropyltoluene        |       |       |      |     |      |      |  |
| 110  | 1,4-dichlorobenzene       |       |       |      |     |      |      |  |
| 111  | 1,2-dichlorobenzene       |       |       |      |     |      |      |  |
| 112  | 1,2,3-trimethylbenzene    | 1.573 | 1.676 | -6.5 | 99  | 0.00 | 6.86 |  |
| 113  | n-butylbenzene            |       |       |      |     |      |      |  |
| 114  | 1,2-dibromo-3-chloropropa |       |       |      |     |      |      |  |
| 115  | 1,3,5-trichlorobenzene    |       |       |      |     |      |      |  |
| 116  | 1,2,4-trichlorobenzene    |       |       |      |     |      |      |  |
| 117  | hexachlorobutadiene       |       |       |      |     |      |      |  |
| 118  | naphthalene               |       |       |      |     |      |      |  |
| 119  | 1,2,3-trichlorobenzene    |       |       |      |     |      |      |  |
| 120  | hexachloroethane          |       |       |      |     |      |      |  |
| 121  | benzyl chloride           |       |       |      |     |      |      |  |
| 122  | 2-methylnaphthalene       |       |       |      |     |      |      |  |

(#) = Out of Range  
 2U49571.D M2U2015.M

SPCC's out = 0 CCC's out = 0  
 Tue Nov 01 17:26:40 2022

6.7.11

6

## Continuing Calibration Summary

Page 1 of 3

Job Number: JD54605

Sample: V2U2018-CC2015

Account: FLSNyny Fleming-Lee Shue, Inc.

Lab FileID: 2U49689.D

Project: Info Tech High School, 21-16 44th Road, Long Island City, NY

## Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\An...022\v2u2018\2u49689.d Vial: 52  
 Acq On : 1 Nov 2022 9:25 pm Operator: edwardd  
 Sample : cc2015-50 Inst : GCMS-U  
 Misc : MS63577,V2U2018,5,,,,,1 Multiplr: 1.00  
 MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M2U2015.M (RTE Integrator)  
 Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um  
 Last Update : Wed Nov 02 12:34:58 2022  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 200%

|                                | Compound                 | AvgRF  | CCRF   | %Dev  | Area% | Dev(min) | R.T. |
|--------------------------------|--------------------------|--------|--------|-------|-------|----------|------|
| 1 I                            | tert butyl alcohol-d9    | 1.000  | 1.000  | 0.0   | 89    | 0.00     | 2.06 |
| 2                              | ethanol                  | 0.044  | 0.045  | -2.3  | 90    | 0.00     | 1.66 |
| 3 M                            | tertiary butyl alcohol   | 0.675  | 0.632  | 6.4   | 85    | 0.00     | 2.09 |
| 4                              | 1,4-dioxane              | 0.057  | 0.061  | -7.0  | 88    | 0.00     | 3.71 |
| 5 I                            | pentafluorobenzene       | 1.000  | 1.000  | 0.0   | 88    | 0.00     | 3.00 |
| 6                              | chlorodifluoromethane    | 0.303  | 0.288  | 5.0   | 89    | 0.00     | 1.09 |
| 7                              | dichlorodifluoromethane  | 0.435  | 0.319  | 26.7# | 68    | 0.00     | 1.07 |
| 8                              | chloromethane            | 0.314  | 0.262  | 16.6  | 86    | 0.00     | 1.17 |
| 9                              | vinyl chloride           | 0.365  | 0.333  | 8.8   | 88    | 0.00     | 1.21 |
| 10                             | 1,3-butadiene            | 0.210  | 0.245  | -16.7 | 110   | 0.00     | 1.21 |
| ----- True Calc. % Drift ----- |                          |        |        |       |       |          |      |
| 11                             | bromomethane             | 50.000 | 55.441 | -10.9 | 97    | 0.00     | 1.36 |
| ----- AvgRF CCRF % Dev -----   |                          |        |        |       |       |          |      |
| 12                             | chloroethane             | 0.294  | 0.312  | -6.1  | 102   | 0.00     | 1.42 |
| 13                             | trichlorofluoromethane   | 0.892  | 0.960  | -7.6  | 101   | 0.00     | 1.48 |
| 14                             | ethyl ether              | 0.191  | 0.201  | -5.2  | 98    | 0.00     | 1.61 |
| 15                             | acrolein                 | 0.060  | 0.059  | 1.7   | 88    | 0.00     | 1.85 |
| 16                             | freon 113                | 0.284  | 0.298  | -4.9  | 95    | 0.00     | 1.72 |
| 17                             | 1,1-dichloroethene       | 0.421  | 0.435  | -3.3  | 96    | 0.00     | 1.71 |
| 18                             | acetone                  | 0.040  | 0.042  | -5.0  | 82    | 0.00     | 1.98 |
| 19                             | acetonitrile             | 0.039  | 0.038  | 2.6   | 87    | 0.00     | 2.19 |
| ----- True Calc. % Drift ----- |                          |        |        |       |       |          |      |
| 20                             | iodomethane              | 50.000 | 39.346 | 21.3# | 74    | 0.00     | 1.78 |
| ----- AvgRF CCRF % Dev -----   |                          |        |        |       |       |          |      |
| 21                             | carbon disulfide         | 0.777  | 0.806  | -3.7  | 95    | 0.00     | 1.74 |
| 22                             | methylene chloride       | 0.272  | 0.253  | 7.0   | 85    | 0.00     | 1.96 |
| 23                             | methyl acetate           | 0.064  | 0.060  | 6.3   | 86    | 0.00     | 2.02 |
| 24                             | methyl tert butyl ether  | 0.773  | 0.743  | 3.9   | 87    | 0.00     | 2.07 |
| ----- True Calc. % Drift ----- |                          |        |        |       |       |          |      |
| 25                             | trans-1,2-dichloroethene | 50.000 | 52.222 | -4.4  | 89    | 0.00     | 2.03 |
| ----- AvgRF CCRF % Dev -----   |                          |        |        |       |       |          |      |
| 26                             | hexane                   | 0.547  | 0.532  | 2.7   | 88    | 0.00     | 2.07 |
| 27                             | di-isopropyl ether       | 0.702  | 0.675  | 3.8   | 89    | 0.00     | 2.23 |
| 28                             | ethyl tert-butyl ether   | 0.731  | 0.724  | 1.0   | 90    | 0.00     | 2.40 |
| 29                             | 2-butanone               | 0.051  | 0.052  | -2.0  | 86    | 0.00     | 2.83 |

# Continuing Calibration Summary

**Job Number:** JD54605

**Sample:** V2U2018-CC2015

**Account:** FLSNyny Fleming-Lee Shue, Inc.

**Lab FileID:** 2U49689.D

**Project:** Info Tech High School, 21-16 44th Road, Long Island City, NY

|    |   |                           |       |       |      |    |      |      |
|----|---|---------------------------|-------|-------|------|----|------|------|
| 30 | M | 1,1-dichloroethane        | 0.481 | 0.477 | 0.8  | 91 | 0.00 | 2.31 |
| 31 |   | chloroprene               | 0.386 | 0.396 | -2.6 | 93 | 0.00 | 2.30 |
| 32 |   | acrylonitrile             | 0.083 | 0.089 | -7.2 | 91 | 0.00 | 2.33 |
| 33 |   | vinyl acetate             | 0.059 | 0.059 | 0.0  | 89 | 0.00 | 2.41 |
| 34 |   | ethyl acetate             | 0.036 | 0.036 | 0.0  | 85 | 0.00 | 2.73 |
| 35 |   | 2,2-dichloropropane       | 0.437 | 0.419 | 4.1  | 86 | 0.00 | 2.62 |
| 36 |   | cis-1,2-dichloroethene    | 0.308 | 0.288 | 6.5  | 85 | 0.00 | 2.56 |
| 37 |   | propionitrile             | 0.052 | 0.052 | 0.0  | 89 | 0.00 | 2.98 |
| 38 |   | methyl acrylate           | 0.059 | 0.060 | -1.7 | 84 | 0.00 | 2.74 |
| 39 |   | bromochloromethane        | 0.149 | 0.136 | 8.7  | 84 | 0.00 | 2.66 |
| 40 |   | tetrahydrofuran           | 0.047 | 0.044 | 6.4  | 80 | 0.00 | 2.77 |
| 41 |   | chloroform                | 0.147 | 0.142 | 3.4  | 94 | 0.00 | 2.68 |
| 42 | S | dibromofluoromethane (s)  | 0.487 | 0.455 | 6.6  | 87 | 0.00 | 2.77 |
| 43 |   | methacrylonitrile         | 0.142 | 0.143 | -0.7 | 90 | 0.00 | 3.00 |
| 44 |   | 1,1,1-trichloroethane     | 0.500 | 0.492 | 1.6  | 88 | 0.00 | 2.81 |
| 45 |   | cyclohexane               | 0.419 | 0.429 | -2.4 | 97 | 0.00 | 2.67 |
| 46 |   | 1,1-dichloropropene       | 0.384 | 0.383 | 0.3  | 89 | 0.00 | 2.86 |
| 47 |   | carbon tetrachloride      | 0.507 | 0.474 | 6.5  | 88 | 0.00 | 2.77 |
| 48 |   | isobutyl alcohol          | 0.035 | 0.037 | -5.7 | 88 | 0.00 | 3.03 |
| 49 |   | tert-amyl alcohol         | 0.019 | 0.018 | 5.3  | 89 | 0.00 | 3.10 |
|    |   |                           |       |       |      |    |      |      |
| 50 | I | 1,4-difluorobenzene       | 1.000 | 1.000 | 0.0  | 88 | 0.00 | 3.29 |
| 51 | S | 1,2-dichloroethane-d4 (s) | 0.396 | 0.409 | -3.3 | 94 | 0.00 | 3.05 |
| 52 |   | iso-octane                | 0.703 | 0.705 | -0.3 | 91 | 0.00 | 2.91 |
| 53 | M | benzene                   | 0.794 | 0.807 | -1.6 | 92 | 0.00 | 2.99 |
| 54 |   | tert-amyl methyl ether    | 0.568 | 0.579 | -1.9 | 92 | 0.00 | 3.03 |
| 55 |   | heptane                   | 0.122 | 0.120 | 1.6  | 87 | 0.00 | 2.95 |
| 56 |   | isopropyl acetate         | 0.055 | 0.056 | -1.8 | 88 | 0.00 | 3.18 |
| 57 |   | 1,2-dichloroethane        | 0.278 | 0.276 | 0.7  | 91 | 0.00 | 3.08 |
| 58 |   | n-butyl alcohol           | 0.009 | 0.009 | 0.0  | 87 | 0.00 | 3.42 |
| 59 |   | ethyl acrylate            | 0.297 | 0.293 | 1.3  | 89 | 0.00 | 3.56 |
| 60 |   | trichloroethene           | 0.246 | 0.249 | -1.2 | 87 | 0.00 | 3.29 |
| 61 |   | 2-nitropropane            | 0.078 | 0.078 | 0.0  | 89 | 0.00 | 4.25 |
| 62 |   | 2-chloroethyl vinyl ether | 0.120 | 0.127 | -5.8 | 86 | 0.00 | 3.92 |
| 63 |   | methyl methacrylate       | 0.064 | 0.068 | -6.3 | 88 | 0.00 | 3.67 |
| 64 |   | 1,2-dichloropropane       | 0.178 | 0.188 | -5.6 | 92 | 0.00 | 3.57 |
| 65 |   | methylcyclohexane         | 0.253 | 0.244 | 3.6  | 92 | 0.00 | 3.29 |
| 66 |   | dibromomethane            | 0.152 | 0.153 | -0.7 | 91 | 0.00 | 3.52 |
| 67 |   | bromodichloromethane      | 0.306 | 0.305 | 0.3  | 91 | 0.00 | 3.60 |
| 68 |   | epichlorohydrin           | 0.031 | 0.030 | 3.2  | 89 | 0.00 | 4.11 |
| 69 |   | cis-1,3-dichloropropene   | 0.313 | 0.313 | 0.0  | 87 | 0.00 | 3.96 |
| 70 |   | 4-methyl-2-pentanone      | 0.098 | 0.100 | -2.0 | 89 | 0.00 | 4.34 |
| 71 |   | 3-methyl-1-butanol        | 0.009 | 0.009 | 0.0  | 86 | 0.00 | 4.19 |
|    |   |                           |       |       |      |    |      |      |
| 72 | I | chlorobenzene-d5          | 1.000 | 1.000 | 0.0  | 91 | 0.00 | 5.09 |
| 73 | S | toluene-d8 (s)            | 1.233 | 1.168 | 5.3  | 90 | 0.00 | 4.08 |
| 74 |   | toluene                   | 0.529 | 0.525 | 0.8  | 91 | 0.00 | 4.12 |
| 75 |   | ethyl methacrylate        | 0.272 | 0.270 | 0.7  | 90 | 0.00 | 4.45 |
| 76 |   | trans-1,3-dichloropropene | 0.307 | 0.309 | -0.7 | 93 | 0.00 | 4.36 |
| 77 |   | 1,1,2-trichloroethane     | 0.169 | 0.162 | 4.1  | 89 | 0.00 | 4.47 |
| 78 |   | tetrachloroethene         | 0.275 | 0.280 | -1.8 | 87 | 0.00 | 4.36 |
| 79 |   | 2-hexanone                | 0.111 | 0.108 | 2.7  | 89 | 0.00 | 4.88 |
| 80 |   | 1,3-dichloropropane       | 0.309 | 0.299 | 3.2  | 90 | 0.00 | 4.65 |
| 81 |   | butyl acetate             | 0.140 | 0.132 | 5.7  | 87 | 0.00 | 4.81 |
| 82 |   | dibromochloromethane      | 0.268 | 0.252 | 6.0  | 87 | 0.00 | 4.59 |
| 83 |   | 1,2-dibromoethane         | 0.232 | 0.223 | 3.9  | 86 | 0.00 | 4.75 |
| 84 |   | n-butyl ether             | 0.743 | 0.753 | -1.3 | 90 | 0.00 | 5.03 |
| 85 |   | chlorobenzene             | 0.630 | 0.631 | -0.2 | 90 | 0.00 | 5.10 |
| 86 |   | 1,1,1,2-tetrachloroethane | 0.227 | 0.233 | -2.6 | 88 | 0.00 | 5.14 |
| 87 |   | ethylbenzene              | 1.079 | 1.071 | 0.7  | 92 | 0.00 | 5.12 |



# Continuing Calibration Summary

Page 3 of 3

**Job Number:** JD54605

**Sample:** V2U2018-CC2015

**Account:** FLSNYYNY Fleming-Lee Shue, Inc.

**Lab FileID:** 2U49689.D

**Project:** Info Tech High School, 21-16 44th Road, Long Island City, NY

|      |                           |       |       |      |    |      |      |
|------|---------------------------|-------|-------|------|----|------|------|
| 88   | m,p-xylene                | 0.386 | 0.418 | -8.3 | 91 | 0.00 | 5.22 |
| 89   | o-xylene                  | 0.377 | 0.386 | -2.4 | 90 | 0.00 | 5.53 |
| 90   | styrene                   | 0.605 | 0.650 | -7.4 | 89 | 0.00 | 5.56 |
| 91   | bromoform                 | 0.211 | 0.218 | -3.3 | 86 | 0.00 | 5.58 |
| 92   | butyl acrylate            | 0.386 | 0.381 | 1.3  | 89 | 0.00 | 5.65 |
| 93   | isopropylbenzene          | 1.003 | 1.082 | -7.9 | 90 | 0.00 | 5.76 |
| 94   | cis-1,4-dichloro-2-butene | 0.125 | 0.106 | 15.2 | 74 | 0.00 | 6.01 |
| 95 I | 1,4-dichlorobenzene-d4    | 1.000 | 1.000 | 0.0  | 88 | 0.00 | 6.83 |
| 96 S | 4-bromofluorobenzene (s)  | 0.892 | 0.846 | 5.2  | 90 | 0.00 | 5.97 |
| 97   | bromobenzene              | 0.567 | 0.531 | 6.3  | 88 | 0.00 | 6.05 |
| 98   | 1,1,2,2-tetrachloroethane | 0.610 | 0.565 | 7.4  | 90 | 0.00 | 6.11 |
| 99   | trans-1,4-dichloro-2-bute | 0.150 | 0.127 | 15.3 | 79 | 0.00 | 6.25 |
| 100  | 1,2,3-trichloropropane    | 0.200 | 0.196 | 2.0  | 91 | 0.00 | 6.22 |
| 101  | n-propylbenzene           | 2.322 | 2.354 | -1.4 | 92 | 0.00 | 6.07 |
| 102  | 2-chlorotoluene           | 0.498 | 0.486 | 2.4  | 86 | 0.00 | 6.19 |
| 103  | 4-chlorotoluene           | 1.368 | 1.357 | 0.8  | 92 | 0.00 | 6.31 |
| 104  | 1,3,5-trimethylbenzene    | 1.571 | 1.639 | -4.3 | 92 | 0.00 | 6.22 |
| 105  | tert-butylbenzene         | 1.395 | 1.449 | -3.9 | 89 | 0.00 | 6.47 |
| 106  | 1,2,4-trimethylbenzene    | 1.540 | 1.630 | -5.8 | 91 | 0.00 | 6.52 |
| 107  | sec-butylbenzene          | 2.034 | 2.135 | -5.0 | 92 | 0.00 | 6.61 |
| 108  | 1,3-dichlorobenzene       | 0.994 | 0.999 | -0.5 | 87 | 0.00 | 6.77 |
| 109  | p-isopropyltoluene        | 1.664 | 1.803 | -8.4 | 90 | 0.00 | 6.72 |
| 110  | 1,4-dichlorobenzene       | 0.994 | 1.012 | -1.8 | 88 | 0.00 | 6.84 |
| 111  | 1,2-dichlorobenzene       | 0.909 | 0.910 | -0.1 | 86 | 0.00 | 7.15 |
| 112  | 1,2,3-trimethylbenzene    | 1.573 | 1.643 | -4.5 | 93 | 0.00 | 6.86 |
| 113  | n-butylbenzene            | 0.843 | 0.916 | -8.7 | 93 | 0.00 | 7.04 |
| 114  | 1,2-dibromo-3-chloropropa | 0.191 | 0.174 | 8.9  | 82 | 0.00 | 7.72 |
| 115  | 1,3,5-trichlorobenzene    | 0.668 | 0.640 | 4.2  | 88 | 0.00 | 7.75 |
| 116  | 1,2,4-trichlorobenzene    | 0.553 | 0.510 | 7.8  | 86 | 0.00 | 8.19 |
| 117  | hexachlorobutadiene       | 0.273 | 0.244 | 10.6 | 85 | 0.00 | 8.18 |
| 118  | naphthalene               | 1.559 | 1.471 | 5.6  | 85 | 0.00 | 8.41 |
| 119  | 1,2,3-trichlorobenzene    | 0.519 | 0.501 | 3.5  | 87 | 0.00 | 8.53 |
| 120  | hexachloroethane          | 0.305 | 0.331 | -8.5 | 89 | 0.00 | 7.14 |
| 121  | benzyl chloride           | 0.214 | 0.229 | -7.0 | 87 | 0.00 | 7.03 |
| 122  | 2-methylnaphthalene       | 0.506 | 0.452 | 10.7 | 80 | 0.00 | 9.08 |

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

2U49571.D M2U2015.M

Thu Nov 03 17:51:03 2022



## Run Sequence Report

Job Number: JD54605

Account: FLSNYYNY Fleming-Lee Shue, Inc.

Project: Info Tech High School, 21-16 44th Road, Long Island City, NY

|               |                     |                       |
|---------------|---------------------|-----------------------|
| Run ID: V1K11 | Method: SW846 8260D | Instrument ID: GCMS1K |
|---------------|---------------------|-----------------------|

| Lab<br>Sample ID | Lab<br>File ID | Date/Time<br>Analyzed | Prep<br>QC Batch | Client<br>Sample ID         |
|------------------|----------------|-----------------------|------------------|-----------------------------|
| V1K11-BFB        | 1K00254.D      | 10/16/22 16:49        | n/a              | BFB Tune                    |
| V1K11-IC11       | 1K00256.D      | 10/16/22 18:07        | n/a              | Initial cal 0.2             |
| V1K11-IC11       | 1K00258.D      | 10/16/22 18:40        | n/a              | Initial cal 0.5             |
| V1K11-IC11       | 1K00260.D      | 10/16/22 19:12        | n/a              | Initial cal 1               |
| V1K11-IC11       | 1K00262.D      | 10/16/22 19:45        | n/a              | Initial cal 2               |
| V1K11-IC11       | 1K00264.D      | 10/16/22 20:18        | n/a              | Initial cal 4               |
| V1K11-IC11       | 1K00266.D      | 10/16/22 20:50        | n/a              | Initial cal 8               |
| V1K11-IC11       | 1K00268.D      | 10/16/22 21:23        | n/a              | Initial cal 20              |
| V1K11-ICC11      | 1K00270.D      | 10/16/22 21:55        | n/a              | Initial cal 50              |
| V1K11-IC11       | 1K00272.D      | 10/16/22 22:28        | n/a              | Initial cal 100             |
| V1K11-IC11       | 1K00274.D      | 10/16/22 23:00        | n/a              | Initial cal 200             |
| V1K11-ICV11      | 1K00280.D      | 10/17/22 00:38        | n/a              | Initial cal verification 50 |
| V1K11-ICV11      | 1K00282.D      | 10/17/22 01:10        | n/a              | Initial cal verification 50 |

## Run Sequence Report

Page 1 of 1

Job Number: JD54605

Account: FLSNYYNY Fleming-Lee Shue, Inc.

Project: Info Tech High School, 21-16 44th Road, Long Island City, NY

|               |                     |                       |
|---------------|---------------------|-----------------------|
| Run ID: V1K38 | Method: SW846 8260D | Instrument ID: GCMS1K |
|---------------|---------------------|-----------------------|

| Lab<br>Sample ID | Lab<br>File ID | Date/Time<br>Analyzed | Prep<br>QC Batch | Client<br>Sample ID                         |
|------------------|----------------|-----------------------|------------------|---------------------------------------------|
| V1K38-BFB        | 1K01224.D      | 11/02/22 08:49        | n/a              | BFB Tune                                    |
| V1K38-CC11       | 1K01224.D      | 11/02/22 08:49        | n/a              | Continuing cal 20                           |
| V1K38-BS         | 1K01228.D      | 11/02/22 10:08        | n/a              | Blank Spike                                 |
| V1K38-MB         | 1K01232.D      | 11/02/22 11:13        | n/a              | Method Blank                                |
| ZZZZZZ           | 1K01233.D      | 11/02/22 11:36        | n/a              | (unrelated sample)                          |
| JD54531-3        | 1K01235.D      | 11/02/22 12:08        | n/a              | (used for QC only; not part of job JD54605) |
| JD54605-11       | 1K01237.D      | 11/02/22 12:41        | n/a              | TRIP BLANK                                  |
| JD54605-4        | 1K01239.D      | 11/02/22 13:13        | n/a              | BRMW-2                                      |
| ZZZZZZ           | 1K01241.D      | 11/02/22 13:46        | n/a              | (unrelated sample)                          |
| ZZZZZZ           | 1K01243.D      | 11/02/22 14:18        | n/a              | (unrelated sample)                          |
| ZZZZZZ           | 1K01245.D      | 11/02/22 14:51        | n/a              | (unrelated sample)                          |
| ZZZZZZ           | 1K01247.D      | 11/02/22 15:24        | n/a              | (unrelated sample)                          |
| ZZZZZZ           | 1K01249.D      | 11/02/22 15:56        | n/a              | (unrelated sample)                          |
| JD54531-3MS      | 1K01251.D      | 11/02/22 16:29        | n/a              | Matrix Spike                                |
| JD54531-3MSD     | 1K01253.D      | 11/02/22 17:02        | n/a              | Matrix Spike Duplicate                      |
| ZZZZZZ           | 1K01255.D      | 11/02/22 17:34        | n/a              | (unrelated sample)                          |
| ZZZZZZ           | 1K01257.D      | 11/02/22 18:07        | n/a              | (unrelated sample)                          |
| ZZZZZZ           | 1K01259.D      | 11/02/22 18:40        | n/a              | (unrelated sample)                          |
| ZZZZZZ           | 1K01261.D      | 11/02/22 19:13        | n/a              | (unrelated sample)                          |
| ZZZZZZ           | 1K01263.D      | 11/02/22 19:45        | n/a              | (unrelated sample)                          |
| ZZZZZZ           | 1K01265.D      | 11/02/22 20:18        | n/a              | (unrelated sample)                          |

6.8.2

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## Run Sequence Report

Page 1 of 1

**Job Number:** JD54605**Account:** FLSNYYNY Fleming-Lee Shue, Inc.**Project:** Info Tech High School, 21-16 44th Road, Long Island City, NY

|                        |                            |                              |
|------------------------|----------------------------|------------------------------|
| <b>Run ID:</b> V1U2015 | <b>Method:</b> SW846 8260D | <b>Instrument ID:</b> GCMS1U |
|------------------------|----------------------------|------------------------------|

| Lab<br>Sample ID | Lab<br>File ID | Date/Time<br>Analyzed | Prep<br>QC Batch | Client<br>Sample ID         |
|------------------|----------------|-----------------------|------------------|-----------------------------|
| V1U2015-BFB      | 1U49554.D      | 10/28/22 17:04        | n/a              | BFB Tune                    |
| V1U2015-IC2015   | 1U49556.D      | 10/28/22 17:41        | n/a              | Initial cal 0.2             |
| V1U2015-IC2015   | 1U49558.D      | 10/28/22 18:10        | n/a              | Initial cal 0.5             |
| V1U2015-IC2015   | 1U49560.D      | 10/28/22 18:39        | n/a              | Initial cal 1               |
| V1U2015-IC2015   | 1U49562.D      | 10/28/22 19:08        | n/a              | Initial cal 2               |
| V1U2015-IC2015   | 1U49564.D      | 10/28/22 19:37        | n/a              | Initial cal 4               |
| V1U2015-IC2015   | 1U49566.D      | 10/28/22 20:06        | n/a              | Initial cal 8               |
| V1U2015-IC2015   | 1U49568.D      | 10/28/22 20:35        | n/a              | Initial cal 20              |
| V1U2015-ICC2015  | 1U49570.D      | 10/28/22 21:05        | n/a              | Initial cal 50              |
| V1U2015-IC2015   | 1U49572.D      | 10/28/22 21:34        | n/a              | Initial cal 100             |
| V1U2015-IC2015   | 1U49574.D      | 10/28/22 22:03        | n/a              | Initial cal 200             |
| V1U2015-ICV2015  | 1U49580.D      | 10/28/22 23:30        | n/a              | Initial cal verification 50 |
| V1U2015-ICV2015  | 1U49582.D      | 10/28/22 23:59        | n/a              | Initial cal verification 50 |

6.8.3

6

## Run Sequence Report

Job Number: JD54605

Account: FLSNYYNY Fleming-Lee Shue, Inc.

Project: Info Tech High School, 21-16 44th Road, Long Island City, NY

|                 |                     |                       |
|-----------------|---------------------|-----------------------|
| Run ID: V1U2018 | Method: SW846 8260D | Instrument ID: GCMS1U |
|-----------------|---------------------|-----------------------|

| Lab<br>Sample ID | Lab<br>File ID | Date/Time<br>Analyzed | Prep<br>QC Batch | Client<br>Sample ID    |
|------------------|----------------|-----------------------|------------------|------------------------|
| V1U2018-BFB      | 1U49688.D      | 11/01/22 21:11        | n/a              | BFB Tune               |
| V1U2018-CC2015   | 1U49688.D      | 11/01/22 21:11        | n/a              | Continuing cal 50      |
| V1U2018-BS       | 1U49692.D      | 11/01/22 22:09        | n/a              | Blank Spike            |
| V1U2018-MB       | 1U49696.D      | 11/01/22 23:07        | n/a              | Method Blank           |
| JD54605-5        | 1U49700.D      | 11/02/22 00:05        | n/a              | MW-6                   |
| JD54605-5MS      | 1U49702.D      | 11/02/22 00:35        | n/a              | Matrix Spike           |
| JD54605-5MSD     | 1U49704.D      | 11/02/22 01:04        | n/a              | Matrix Spike Duplicate |
| JD54605-9        | 1U49706.D      | 11/02/22 01:33        | n/a              | BRMW-3                 |
| ZZZZZZ           | 1U49716.D      | 11/02/22 03:58        | n/a              | (unrelated sample)     |
| ZZZZZZ           | 1U49718.D      | 11/02/22 04:27        | n/a              | (unrelated sample)     |
| JD54605-2        | 1U49722.D      | 11/02/22 05:25        | n/a              | BRMW-1                 |
| JD54605-6        | 1U49724.D      | 11/02/22 05:54        | n/a              | RW-1                   |
| JD54605-8        | 1U49726.D      | 11/02/22 06:23        | n/a              | MW-7 DUP               |
| ZZZZZZ           | 1U49730.D      | 11/02/22 07:21        | n/a              | (unrelated sample)     |

## Run Sequence Report

Page 1 of 1

**Job Number:** JD54605**Account:** FLSNYYNY Fleming-Lee Shue, Inc.**Project:** Info Tech High School, 21-16 44th Road, Long Island City, NY

|                        |                            |                              |
|------------------------|----------------------------|------------------------------|
| <b>Run ID:</b> V2U2015 | <b>Method:</b> SW846 8260D | <b>Instrument ID:</b> GCMS2U |
|------------------------|----------------------------|------------------------------|

| Lab<br>Sample ID | Lab<br>File ID | Date/Time<br>Analyzed | Prep<br>QC Batch | Client<br>Sample ID         |
|------------------|----------------|-----------------------|------------------|-----------------------------|
| V2U2015-BFB      | 2U49555.D      | 10/28/22 17:19        | n/a              | BFB Tune                    |
| V2U2015-IC2015   | 2U49557.D      | 10/28/22 17:55        | n/a              | Initial cal 0.2             |
| V2U2015-IC2015   | 2U49559.D      | 10/28/22 18:25        | n/a              | Initial cal 0.5             |
| V2U2015-IC2015   | 2U49561.D      | 10/28/22 18:54        | n/a              | Initial cal 1               |
| V2U2015-IC2015   | 2U49563.D      | 10/28/22 19:23        | n/a              | Initial cal 2               |
| V2U2015-IC2015   | 2U49565.D      | 10/28/22 19:52        | n/a              | Initial cal 4               |
| V2U2015-IC2015   | 2U49567.D      | 10/28/22 20:21        | n/a              | Initial cal 8               |
| V2U2015-IC2015   | 2U49569.D      | 10/28/22 20:50        | n/a              | Initial cal 20              |
| V2U2015-ICC2015  | 2U49571.D      | 10/28/22 21:19        | n/a              | Initial cal 50              |
| V2U2015-IC2015   | 2U49573.D      | 10/28/22 21:48        | n/a              | Initial cal 100             |
| V2U2015-IC2015   | 2U49575.D      | 10/28/22 22:17        | n/a              | Initial cal 200             |
| V2U2015-ICV2015  | 2U49581.D      | 10/28/22 23:44        | n/a              | Initial cal verification 50 |
| V2U2015-ICV2015  | 2U49583.D      | 10/29/22 00:13        | n/a              | Initial cal verification 50 |

6.8.5

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## Run Sequence Report

Page 1 of 1

Job Number: JD54605

Account: FLSNYYNY Fleming-Lee Shue, Inc.

Project: Info Tech High School, 21-16 44th Road, Long Island City, NY

|                 |                     |                       |
|-----------------|---------------------|-----------------------|
| Run ID: V2U2018 | Method: SW846 8260D | Instrument ID: GCMS2U |
|-----------------|---------------------|-----------------------|

| Lab<br>Sample ID | Lab<br>File ID | Date/Time<br>Analyzed | Prep<br>QC Batch | Client<br>Sample ID    |
|------------------|----------------|-----------------------|------------------|------------------------|
| V2U2018-BFB      | 2U49689.D      | 11/01/22 21:25        | n/a              | BFB Tune               |
| V2U2018-CC2015   | 2U49689.D      | 11/01/22 21:25        | n/a              | Continuing cal 50      |
| V2U2018-BS       | 2U49693.D      | 11/01/22 22:24        | n/a              | Blank Spike            |
| V2U2018-MB       | 2U49695.D      | 11/01/22 22:53        | n/a              | Method Blank           |
| JD54605-10       | 2U49697.D      | 11/01/22 23:22        | n/a              | FIELD BLANK            |
| JD54605-4        | 2U49699.D      | 11/01/22 23:51        | n/a              | BRMW-2                 |
| JD54605-9        | 2U49701.D      | 11/02/22 00:20        | n/a              | BRMW-3                 |
| JD54605-4MS      | 2U49703.D      | 11/02/22 00:49        | n/a              | Matrix Spike           |
| JD54605-4MSD     | 2U49705.D      | 11/02/22 01:18        | n/a              | Matrix Spike Duplicate |
| ZZZZZZ           | 2U49707.D      | 11/02/22 01:47        | n/a              | (unrelated sample)     |
| ZZZZZZ           | 2U49709.D      | 11/02/22 02:16        | n/a              | (unrelated sample)     |
| ZZZZZZ           | 2U49711.D      | 11/02/22 02:45        | n/a              | (unrelated sample)     |
| ZZZZZZ           | 2U49713.D      | 11/02/22 03:15        | n/a              | (unrelated sample)     |
| ZZZZZZ           | 2U49715.D      | 11/02/22 03:44        | n/a              | (unrelated sample)     |
| ZZZZZZ           | 2U49717.D      | 11/02/22 04:13        | n/a              | (unrelated sample)     |
| ZZZZZZ           | 2U49719.D      | 11/02/22 04:42        | n/a              | (unrelated sample)     |
| JD54605-1        | 2U49721.D      | 11/02/22 05:11        | n/a              | MW-9                   |
| JD54605-3        | 2U49723.D      | 11/02/22 05:40        | n/a              | MW-8                   |
| JD54605-7        | 2U49725.D      | 11/02/22 06:09        | n/a              | MW-7                   |
| ZZZZZZ           | 2U49727.D      | 11/02/22 06:38        | n/a              | (unrelated sample)     |
| ZZZZZZ           | 2U49729.D      | 11/02/22 07:07        | n/a              | (unrelated sample)     |
| ZZZZZZ           | 2U49731.D      | 11/02/22 07:36        | n/a              | (unrelated sample)     |

6.8.6

6



MS Volatiles

Raw Data

7

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\Angieg\November 2022\nov. 3, 2022\v2u2018\  
 Data File : 2u49721.d  
 Acq On : 2 Nov 2022 5:11 am  
 Operator : edwardd  
 Sample : JD54605-1 Inst : GCMS-U  
 Misc : MS63572,V2U2018,5,,,,,1  
 ALS Vial : 84 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2U2015.M  
 Quant Results File: M2U2015.RES  
 Quant Time: Nov 03 19:32:06 2022  
 Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um  
 QLast Update : Wed Nov 02 12:34:58 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|-------|----------|
| Internal Standards            |        |       |          |          |       |          |
| 1) tert butyl alcohol-d9      | 2.061  | 65    | 302041   | 500.00   | ug/L  | 0.00     |
| 5) pentafluorobenzene         | 2.999  | 168   | 318149   | 50.00    | ug/L  | 0.00     |
| 50) 1,4-difluorobenzene       | 3.293  | 114   | 435487   | 50.00    | ug/L  | 0.00     |
| 72) chlorobenzene-d5          | 5.091  | 117   | 422219   | 50.00    | ug/L  | 0.00     |
| 95) 1,4-dichlorobenzene-d4    | 6.827  | 152   | 206181   | 50.00    | ug/L  | 0.00     |
| System Monitoring Compounds   |        |       |          |          |       |          |
| 42) dibromofluoromethane (s)  | 2.779  | 113   | 157590   | 50.86    | ug/L  | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 127 | Recovery | =     | 101.72%  |
| 51) 1,2-dichloroethane-d4 (s) | 3.052  | 65    | 187991   | 54.51    | ug/L  | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 130 | Recovery | =     | 109.02%  |
| 73) toluene-d8 (s)            | 4.085  | 98    | 537310   | 51.61    | ug/L  | 0.00     |
| Spiked Amount                 | 50.000 | Range | 80 - 120 | Recovery | =     | 103.22%  |
| 96) 4-bromofluorobenzene (s)  | 5.967  | 95    | 180328   | 49.02    | ug/L  | 0.00     |
| Spiked Amount                 | 50.000 | Range | 79 - 127 | Recovery | =     | 98.04%   |
| Target Compounds              |        |       |          |          |       |          |
| 60) trichloroethene           | 3.288  | 130   | 2904     | 1.35     | ug/L  | 97       |
| 78) tetrachloroethene         | 4.362  | 166   | 59668    | 25.72    | ug/L  | 92       |

(#) = qualifier out of range (m) = manual integration (+) = signals summed



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\Angieg\November 2022\nov. 3, 2022\v2u2018\  
Data File : 2u49721.d  
Acq On : 2 Nov 2022 5:11 am  
Operator : edwardd  
Sample : JD54605-1  
Misc : MS63572,V2U2018,5,,,,,1  
ALS Vial : 84 Sample Multiplier: 1

Inst : GCMS-U

Quant Method : C:\MSDCHEM\1\METHODS\M2U2015.M

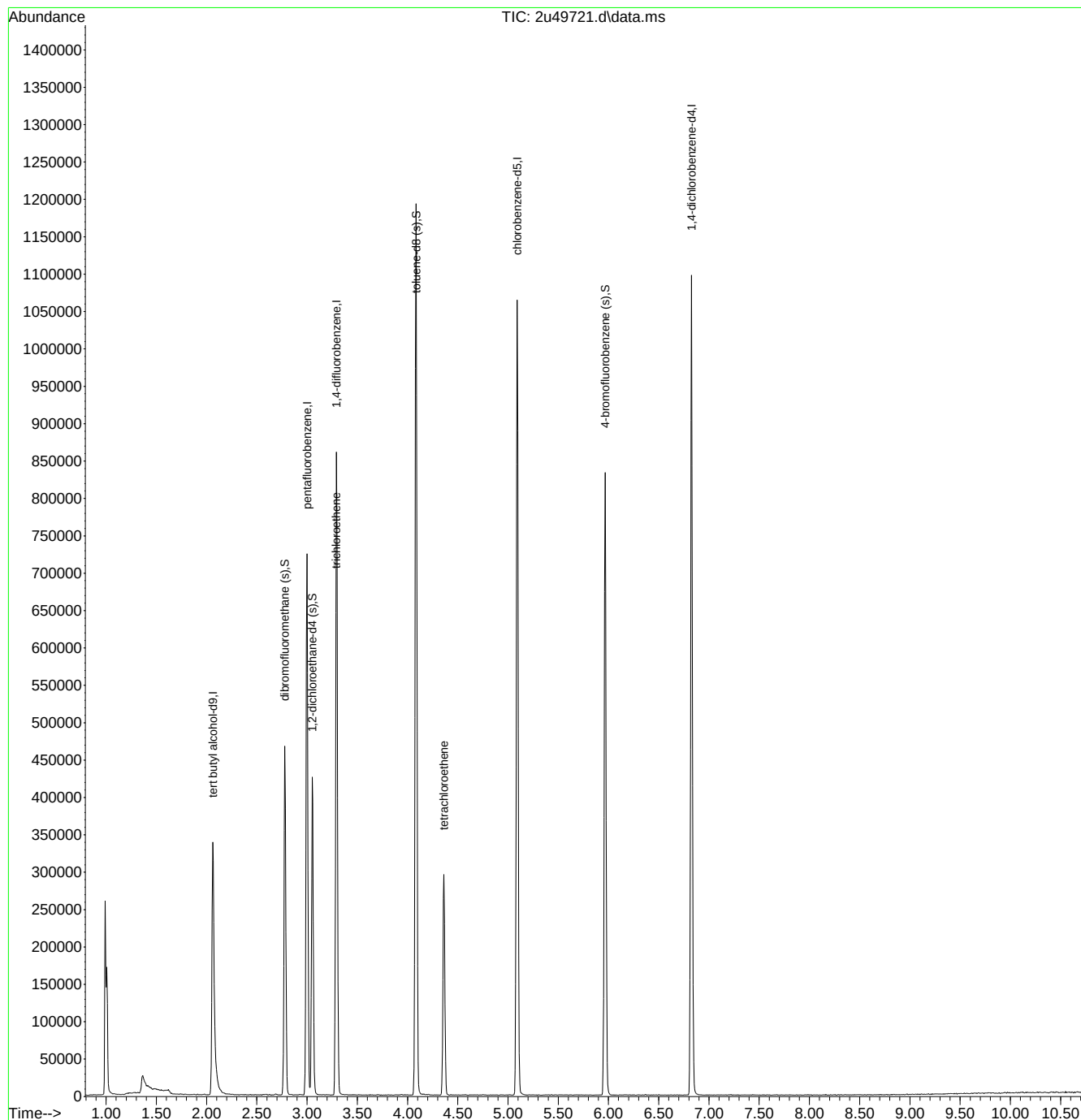
Quant Results File: M2U2015.RES

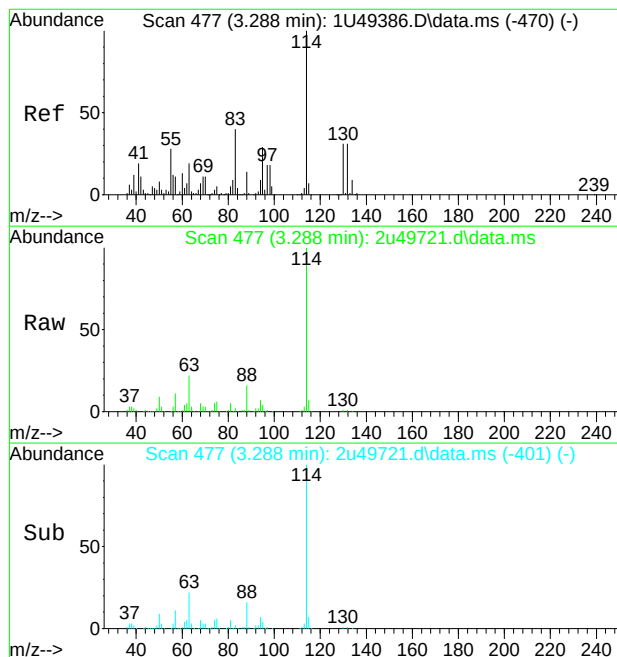
Quant Time: Nov 03 19:32:06 2022

Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um

QLast Update : Wed Nov 02 12:34:58 2022

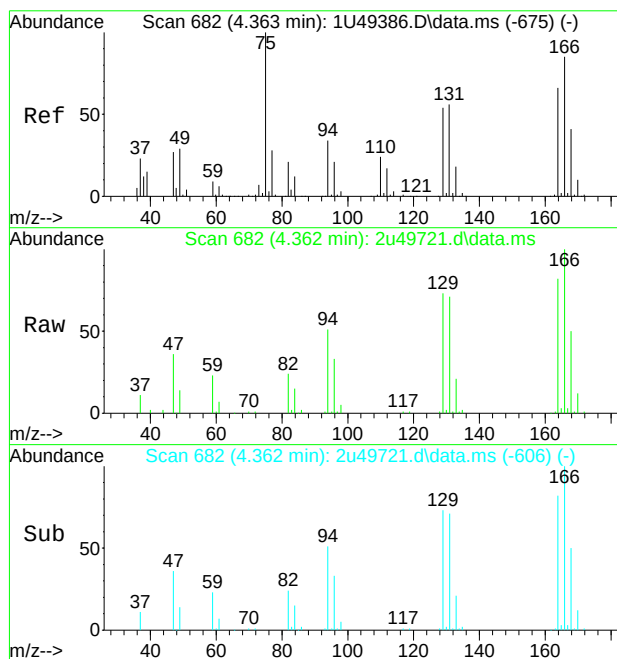
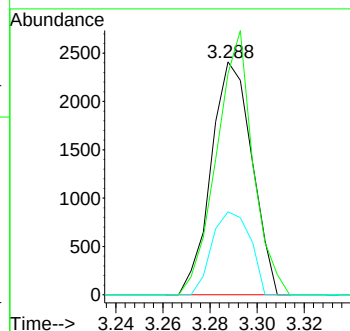
Response via : Initial Calibration





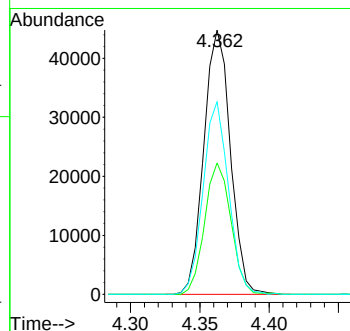
#60  
trichloroethene  
Concen: 1.35 ug/L  
RT: 3.288 min Scan# 477  
Delta R.T. -0.000 min  
Lab File: 2u49721.d  
Acq: 2 Nov 2022 5:11 am

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 130   | Resp: | 2904  |
| Ion Ratio | Lower | Upper |       |
| 130       | 100   |       |       |
| 132       | 94.9  | 64.8  | 124.8 |
| 134       | 35.7  | 0.0   | 59.7  |



#78  
tetrachloroethene  
Concen: 25.72 ug/L  
RT: 4.362 min Scan# 682  
Delta R.T. 0.000 min  
Lab File: 2u49721.d  
Acq: 2 Nov 2022 5:11 am

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 166   | Resp: | 59668 |
| Ion Ratio | Lower | Upper |       |
| 166       | 100   |       |       |
| 168       | 49.7  | 15.6  | 75.6  |
| 129       | 72.9  | 36.1  | 96.1  |



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\Angieg\November 2022\nov. 3, 2022\v1u2018\  
 Data File : 1u49722.d  
 Acq On : 2 Nov 2022 5:25 am  
 Operator : edwardd  
 Sample : JD54605-2 Inst : GCMS-U  
 Misc : MS63572,V1U2018,5,,,1  
 ALS Vial : 85 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1U2015.M  
 Quant Results File: M1U2015.RES  
 Quant Time: Nov 03 16:27:26 2022  
 Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um  
 QLast Update : Wed Nov 02 11:15:22 2022  
 Response via : Initial Calibration

| Compound                      | R.T.           | QIon | Response   | Conc    | Units | Dev(Min)    |
|-------------------------------|----------------|------|------------|---------|-------|-------------|
| Internal Standards            |                |      |            |         |       |             |
| 1) tert butyl alcohol-d9      | 2.056          | 65   | 279842     | 500.00  | ug/L  | 0.00        |
| 5) pentafluorobenzene         | 2.994          | 168  | 347014     | 50.00   | ug/L  | 0.00        |
| 50) 1,4-difluorobenzene       | 3.293          | 114  | 473111     | 50.00   | ug/L  | 0.00        |
| 72) chlorobenzene-d5          | 5.091          | 117  | 440941     | 50.00   | ug/L  | 0.00        |
| 95) 1,4-dichlorobenzene-d4    | 6.827          | 152  | 205556     | 50.00   | ug/L  | 0.00        |
| System Monitoring Compounds   |                |      |            |         |       |             |
| 42) dibromofluoromethane (s)  | 2.774          | 113  | 172936     | 51.36   | ug/L  | 0.00        |
| Spiked Amount 50.000          | Range 75 - 127 |      | Recovery = | 102.72% |       |             |
| 51) 1,2-dichloroethane-d4 (s) | 3.052          | 65   | 204067     | 54.62   | ug/L  | 0.00        |
| Spiked Amount 50.000          | Range 75 - 130 |      | Recovery = | 109.24% |       |             |
| 73) toluene-d8 (s)            | 4.085          | 98   | 579471     | 52.11   | ug/L  | 0.00        |
| Spiked Amount 50.000          | Range 80 - 120 |      | Recovery = | 104.22% |       |             |
| 96) 4-bromofluorobenzene (s)  | 5.967          | 95   | 183149     | 47.62   | ug/L  | 0.00        |
| Spiked Amount 50.000          | Range 79 - 127 |      | Recovery = | 95.24%  |       |             |
| Target Compounds              |                |      |            |         |       |             |
| 9) vinyl chloride             | 1.201          | 62   | 789        | 0.33    | ug/L  | Qvalue # 12 |
| 36) cis-1,2-dichloroethene    | 2.564          | 96   | 17423      | 8.19    | ug/L  | 90          |
| 60) trichloroethene           | 3.288          | 130  | 19519      | 8.19    | ug/L  | 96          |
| 78) tetrachloroethene         | 4.363          | 166  | 189006     | 76.23   | ug/L  | 97          |
| 85) chlorobenzene             | 5.102          | 112  | 10726      | 1.89    | ug/L  | # 66        |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\Angieg\November 2022\nov. 3, 2022\v1u2018\  
Data File : 1u49722.d  
Acq On : 2 Nov 2022 5:25 am  
Operator : edwardd  
Sample : JD54605-2  
Misc : MS63572,V1U2018,5,,,,,1  
ALS Vial : 85 Sample Multiplier: 1

Inst : GCMS-U

Quant Method : C:\MSDCHEM\1\METHODS\M1U2015.M

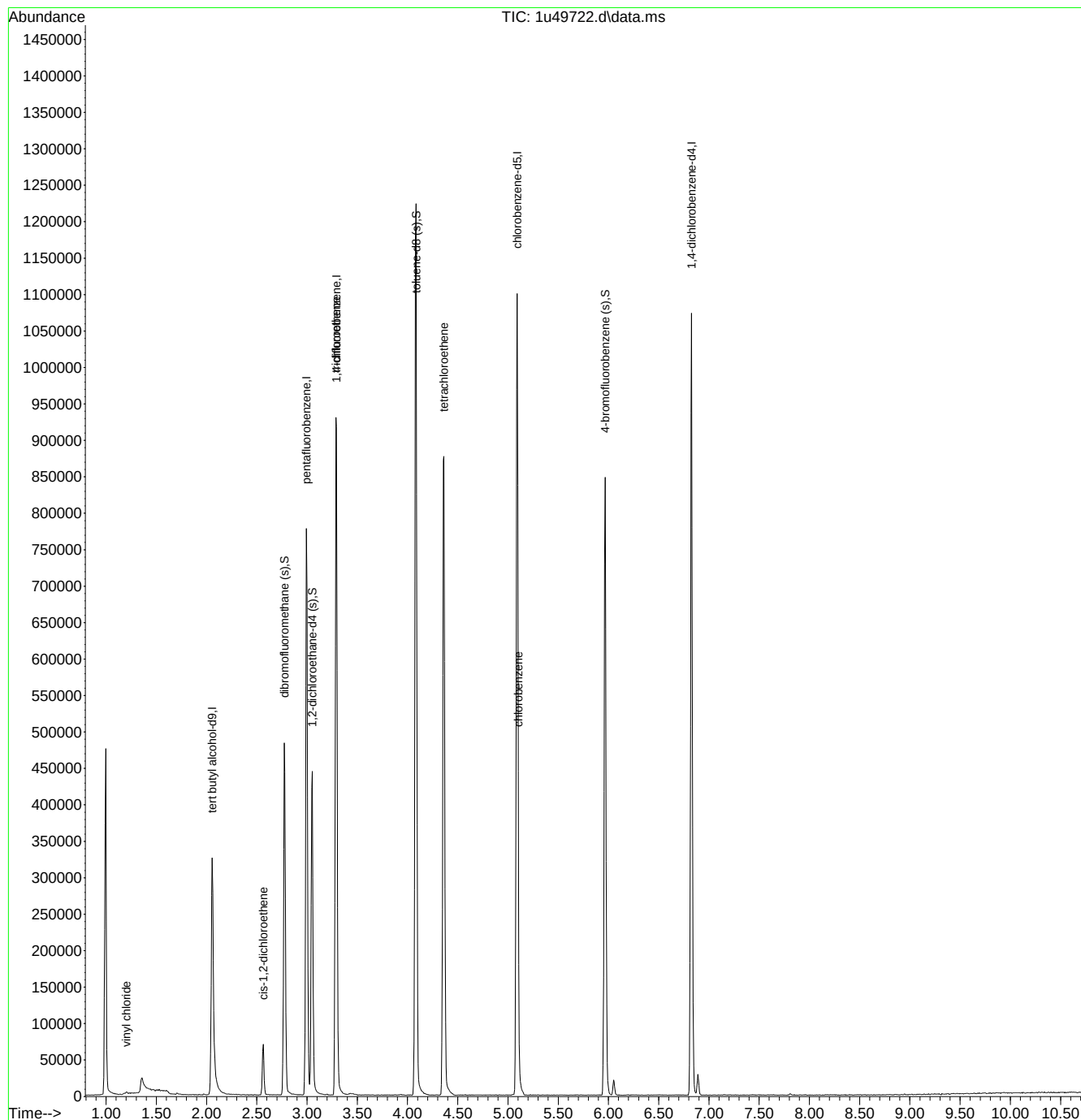
Quant Results File: M1U2015.RES

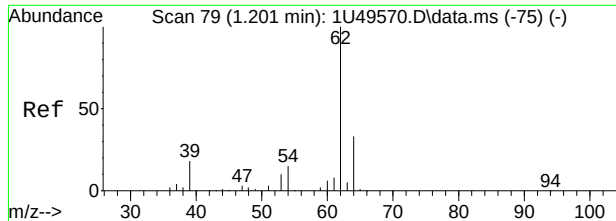
Quant Time: Nov 03 16:27:26 2022

Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um

QLast Update : Wed Nov 02 11:15:22 2022

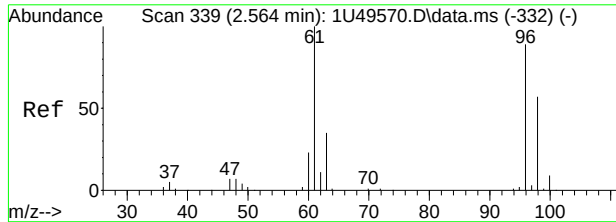
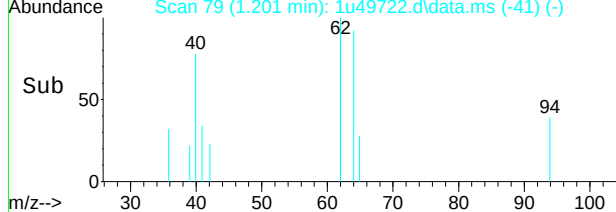
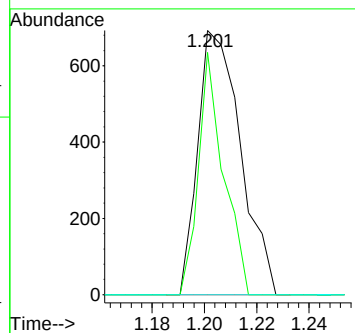
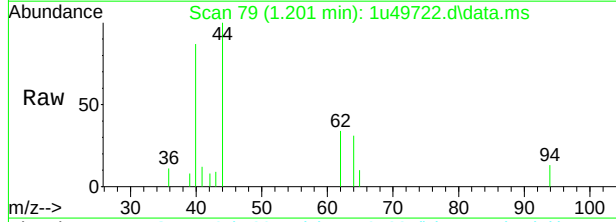
Response via : Initial Calibration





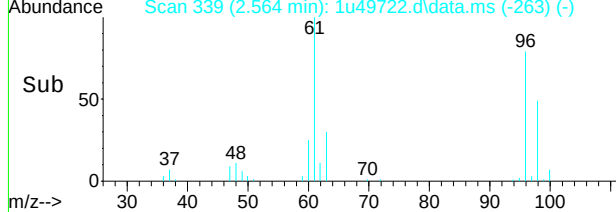
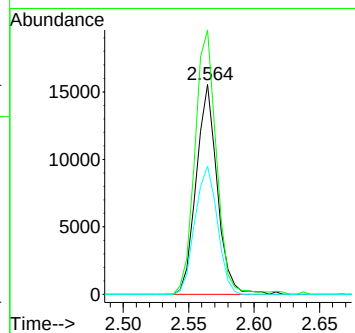
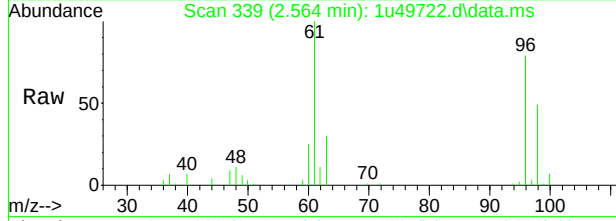
#9  
vinyl chloride  
Concen: 0.33 ug/L  
RT: 1.201 min Scan# 79  
Delta R.T. 0.000 min  
Lab File: 1u49722.d  
Acq: 2 Nov 2022 5:25 am

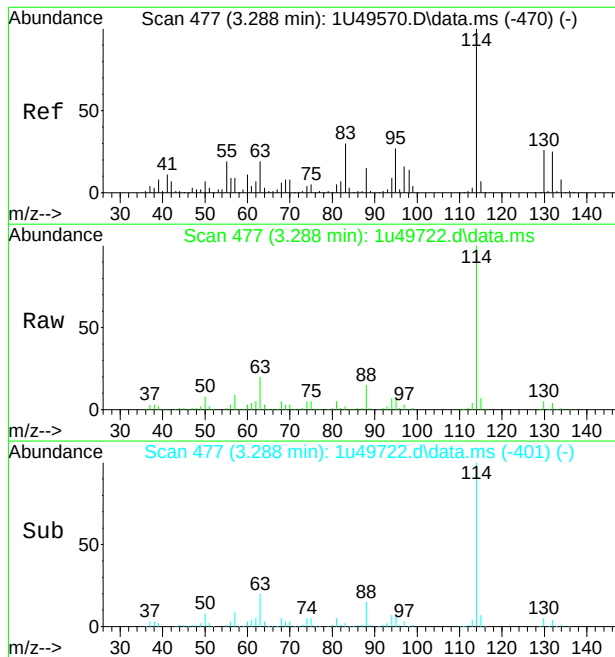
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 62    | Resp: | 789   |
| Ion      | Ratio | Lower | Upper |
| 62       | 100   |       |       |
| 64       | 91.6  | 3.0   | 63.0# |
| 61       | 0.0   | 0.0   | 38.3  |



#36  
cis-1,2-dichloroethene  
Concen: 8.19 ug/L  
RT: 2.564 min Scan# 339  
Delta R.T. 0.000 min  
Lab File: 1u49722.d  
Acq: 2 Nov 2022 5:25 am

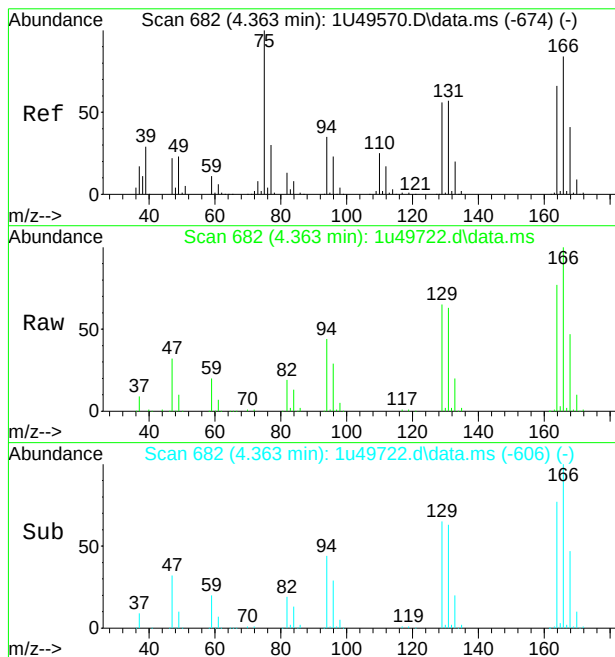
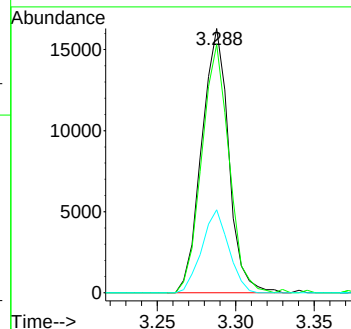
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 96    | Resp: | 17423 |
| Ion      | Ratio | Lower | Upper |
| 96       | 100   |       |       |
| 61       | 125.9 | 81.9  | 141.9 |
| 98       | 61.2  | 34.2  | 94.2  |





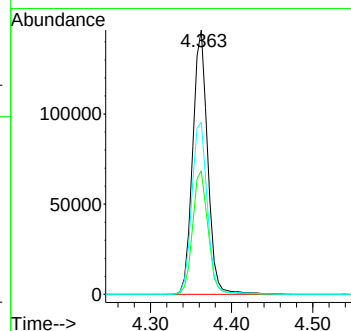
#60  
trichloroethene  
Concen: 8.19 ug/L  
RT: 3.288 min Scan# 477  
Delta R.T. -0.000 min  
Lab File: 1u49722.d  
Acq: 2 Nov 2022 5:25 am

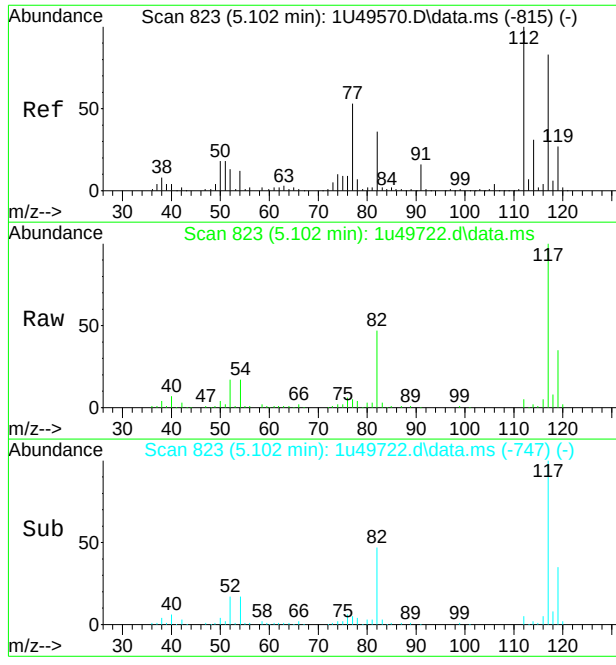
| Tgt Ion   | 130   | Resp  | 19519 |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 130       | 100   |       |       |
| 132       | 93.9  | 68.6  | 128.6 |
| 134       | 31.4  | 2.1   | 62.1  |



#78  
tetrachloroethene  
Concen: 76.23 ug/L  
RT: 4.363 min Scan# 682  
Delta R.T. -0.000 min  
Lab File: 1u49722.d  
Acq: 2 Nov 2022 5:25 am

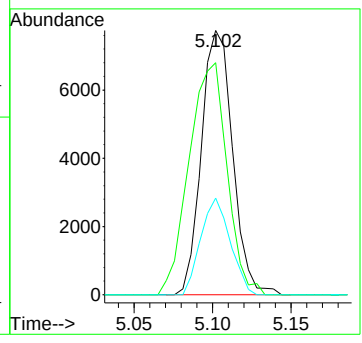
| Tgt Ion   | 166   | Resp  | 189006 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 166       | 100   |       |        |
| 168       | 46.7  | 19.2  | 79.2   |
| 129       | 65.1  | 37.0  | 97.0   |





#85  
chlorobenzene  
Concen: 1.89 ug/L  
RT: 5.102 min Scan# 823  
Delta R.T. -0.000 min  
Lab File: 1u49722.d  
Acq: 2 Nov 2022 5:25 am

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 112     | 100   | 10726 |       |       |
| 77      | 87.8  |       | 23.4  | 83.4# |
| 114     | 36.6  |       | 1.4   | 61.4  |



7.1.2  
7

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\Angieg\November 2022\nov. 3, 2022\v2u2018\  
 Data File : 2u49723.d  
 Acq On : 2 Nov 2022 5:40 am  
 Operator : edwardd  
 Sample : JD54605-3 Inst : GCMS-U  
 Misc : MS63572,V2U2018,5,,,,,1  
 ALS Vial : 86 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2U2015.M  
 Quant Results File: M2U2015.RES  
 Quant Time: Nov 03 19:33:46 2022  
 Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um  
 QLast Update : Wed Nov 02 12:34:58 2022  
 Response via : Initial Calibration

| Compound                      | R.T.           | QIon | Response   | Conc    | Units | Dev(Min) |
|-------------------------------|----------------|------|------------|---------|-------|----------|
| Internal Standards            |                |      |            |         |       |          |
| 1) tert butyl alcohol-d9      | 2.061          | 65   | 302497     | 500.00  | ug/L  | 0.00     |
| 5) pentafluorobenzene         | 2.999          | 168  | 315419     | 50.00   | ug/L  | 0.00     |
| 50) 1,4-difluorobenzene       | 3.293          | 114  | 430353     | 50.00   | ug/L  | 0.00     |
| 72) chlorobenzene-d5          | 5.091          | 117  | 415945     | 50.00   | ug/L  | 0.00     |
| 95) 1,4-dichlorobenzene-d4    | 6.827          | 152  | 201476     | 50.00   | ug/L  | 0.00     |
| System Monitoring Compounds   |                |      |            |         |       |          |
| 42) dibromofluoromethane (s)  | 2.779          | 113  | 157099     | 51.14   | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 75 - 127 |      | Recovery = | 102.28% |       |          |
| 51) 1,2-dichloroethane-d4 (s) | 3.052          | 65   | 187095     | 54.90   | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 75 - 130 |      | Recovery = | 109.80% |       |          |
| 73) toluene-d8 (s)            | 4.085          | 98   | 526351     | 51.32   | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 80 - 120 |      | Recovery = | 102.64% |       |          |
| 96) 4-bromofluorobenzene (s)  | 5.967          | 95   | 176698     | 49.15   | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 79 - 127 |      | Recovery = | 98.30%  |       |          |
| Target Compounds              |                |      |            |         |       |          |
| 60) trichloroethene           | 3.288          | 130  | 1286       | 0.61    | ug/L  | 95       |
| 78) tetrachloroethene         | 4.363          | 166  | 33974      | 14.87   | ug/L  | 98       |

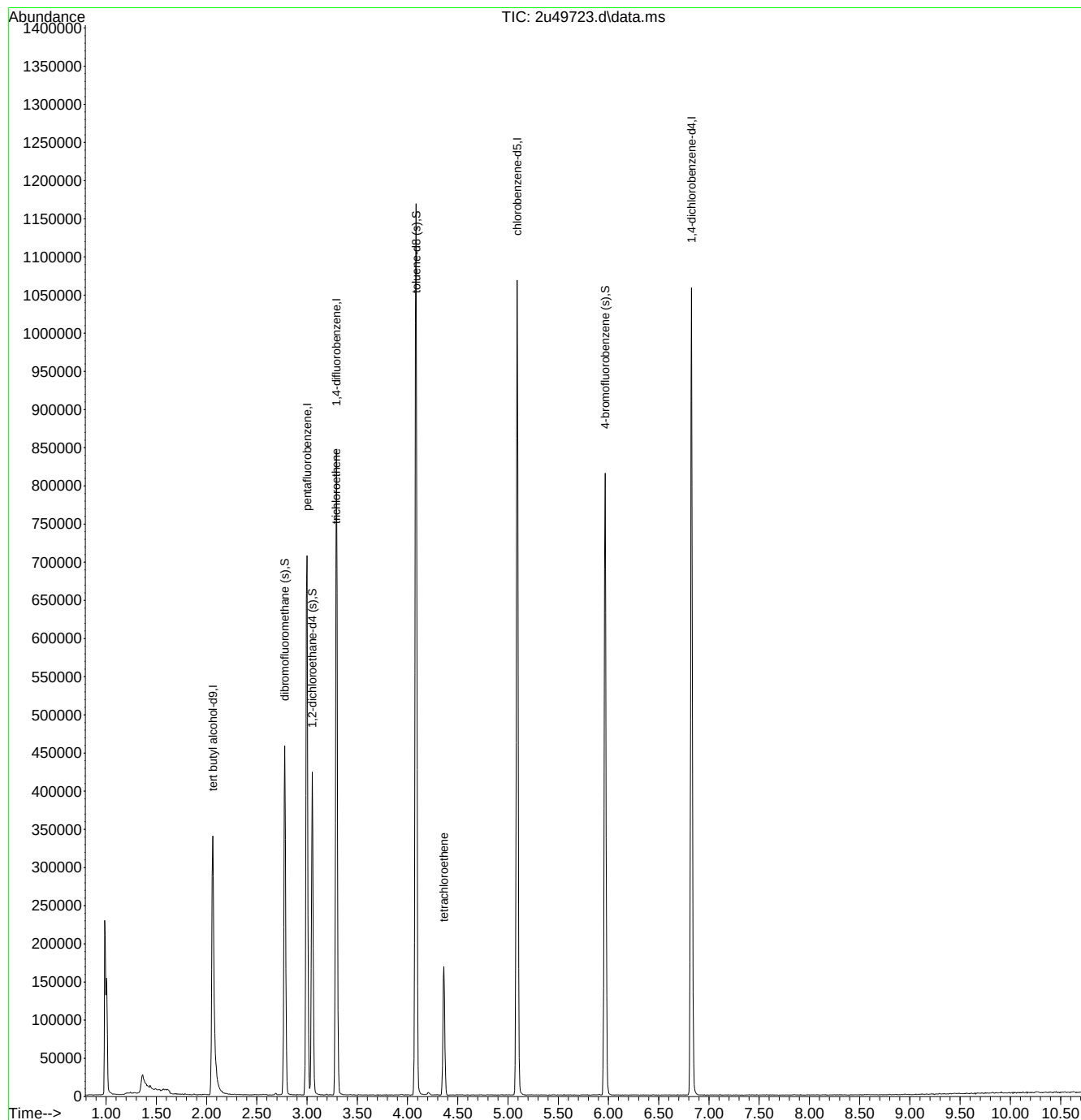
(#) = qualifier out of range (m) = manual integration (+) = signals summed

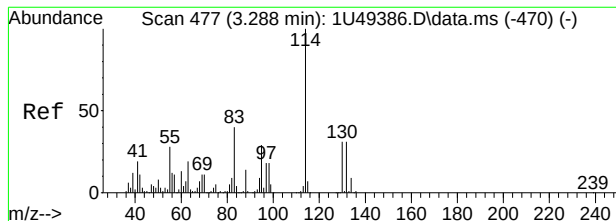


## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\Angieg\November 2022\nov. 3, 2022\v2u2018\  
Data File : 2u49723.d  
Acq On : 2 Nov 2022 5:40 am  
Operator : edwardd  
Sample : JD54605-3 Inst : GCMS-U  
Misc : MS63572,V2U2018,5,,,,,1  
ALS Vial : 86 Sample Multiplier: 1

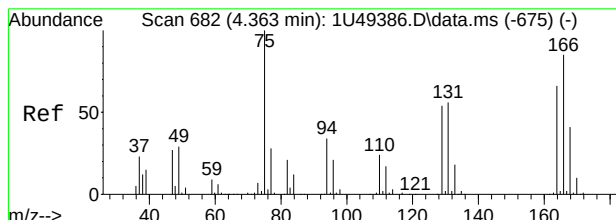
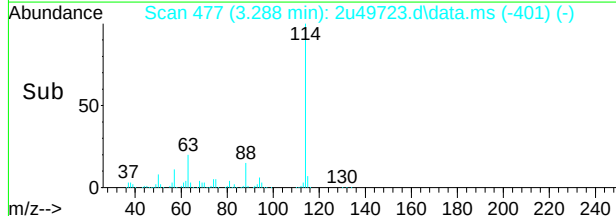
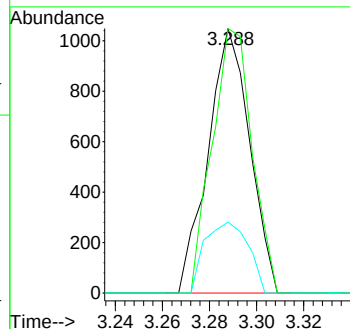
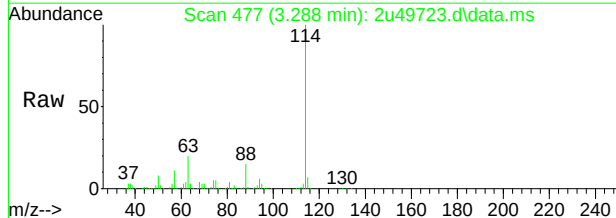
Quant Method : C:\MSDCHEM\1\METHODS\M2U2015.M  
Quant Results File: M2U2015.RES  
Quant Time: Nov 03 19:33:46 2022  
Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um  
QLast Update : Wed Nov 02 12:34:58 2022  
Response via : Initial Calibration





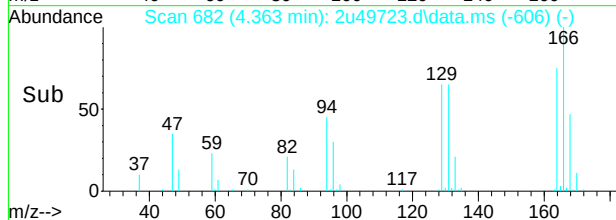
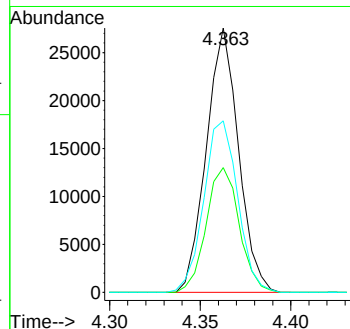
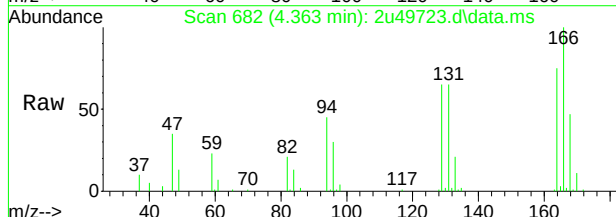
#60  
trichloroethene  
Concen: 0.61 ug/L  
RT: 3.288 min Scan# 477  
Delta R.T. -0.000 min  
Lab File: 2u49723.d  
Acq: 2 Nov 2022 5:40 am

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 130   | Resp: | 1286  |
| Ion Ratio | Lower | Upper |       |
| 130       | 100   |       |       |
| 132       | 99.9  | 64.8  | 124.8 |
| 134       | 26.8  | 0.0   | 59.7  |



#78  
tetrachloroethene  
Concen: 14.87 ug/L  
RT: 4.363 min Scan# 682  
Delta R.T. 0.001 min  
Lab File: 2u49723.d  
Acq: 2 Nov 2022 5:40 am

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 166   | Resp: | 33974 |
| Ion Ratio | Lower | Upper |       |
| 166       | 100   |       |       |
| 168       | 47.2  | 15.6  | 75.6  |
| 129       | 64.9  | 36.1  | 96.1  |



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\renee\5.November\11-03-22\v1k38\  
 Data File : 1k01239.d  
 Acq On : 2 Nov 2022 1:13 pm  
 Operator : taylors  
 Sample : jd54605-4 Inst : GCMS K  
 Misc : MS63572,V1K0038,5,,,,50  
 ALS Vial : 18 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\M1K11.M  
 Quant Results File: M1K11.RES  
 Quant Time: Nov 03 00:49:01 2022  
 Quant Title : SW-846 Method 8260D, column RTX-VMS 20m x 0.18 id x 1.0 um  
 QLast Update : Mon Oct 17 15:20:12 2022  
 Response via : Initial Calibration

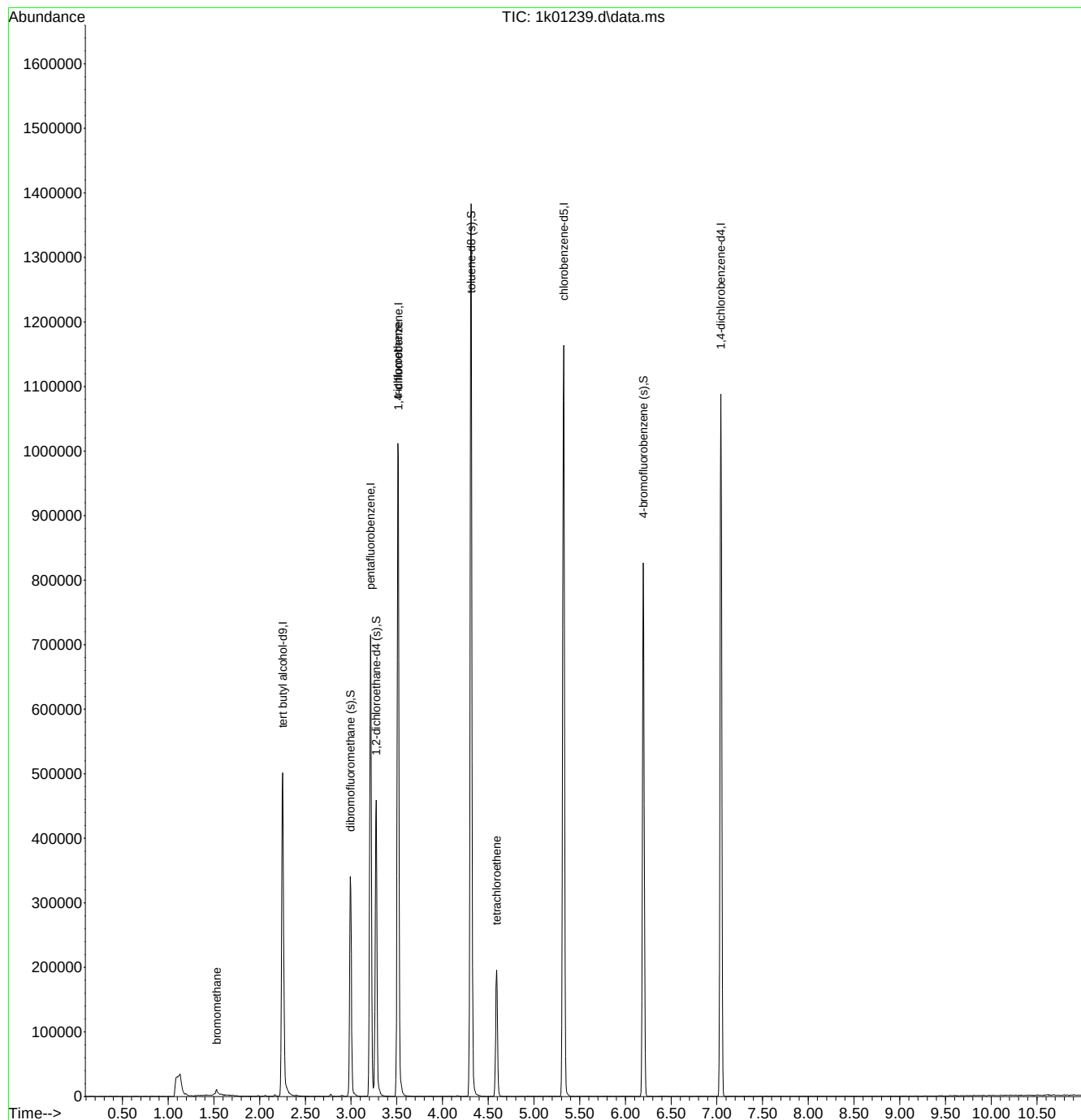
| Compound                      | R.T.           | QIon | Response   | Conc    | Units | Dev(Min)    |
|-------------------------------|----------------|------|------------|---------|-------|-------------|
| Internal Standards            |                |      |            |         |       |             |
| 1) tert butyl alcohol-d9      | 2.253          | 65   | 422856     | 500.00  | ug/L  | 0.00        |
| 5) pentafluorobenzene         | 3.212          | 168  | 301571     | 50.00   | ug/L  | 0.00        |
| 50) 1,4-difluorobenzene       | 3.516          | 114  | 495884     | 50.00   | ug/L  | 0.00        |
| 72) chlorobenzene-d5          | 5.325          | 117  | 431020     | 50.00   | ug/L  | 0.00        |
| 95) 1,4-dichlorobenzene-d4    | 7.045          | 152  | 180787     | 50.00   | ug/L  | 0.00        |
| System Monitoring Compounds   |                |      |            |         |       |             |
| 42) dibromofluoromethane (s)  | 2.992          | 113  | 139305     | 49.81   | ug/L  | 0.00        |
| Spiked Amount 50.000          | Range 75 - 127 |      | Recovery = | 99.62%  |       |             |
| 51) 1,2-dichloroethane-d4 (s) | 3.275          | 65   | 225367     | 51.76   | ug/L  | 0.00        |
| Spiked Amount 50.000          | Range 75 - 130 |      | Recovery = | 103.52% |       |             |
| 73) toluene-d8 (s)            | 4.313          | 98   | 650903     | 51.97   | ug/L  | 0.00        |
| Spiked Amount 50.000          | Range 80 - 120 |      | Recovery = | 103.94% |       |             |
| 96) 4-bromofluorobenzene (s)  | 6.195          | 95   | 229091     | 55.53   | ug/L  | 0.00        |
| Spiked Amount 50.000          | Range 79 - 127 |      | Recovery = | 111.06% |       |             |
| Target Compounds              |                |      |            |         |       |             |
| 11) bromomethane              | 1.529          | 96   | 1728       | 1.39    | ug/L  | Qvalue # 91 |
| 60) trichloroethene           | 3.511          | 130  | 4308       | 1.74    | ug/L  | 93          |
| 78) tetrachloroethene         | 4.591          | 166  | 42966      | 19.48   | ug/L  | 99          |

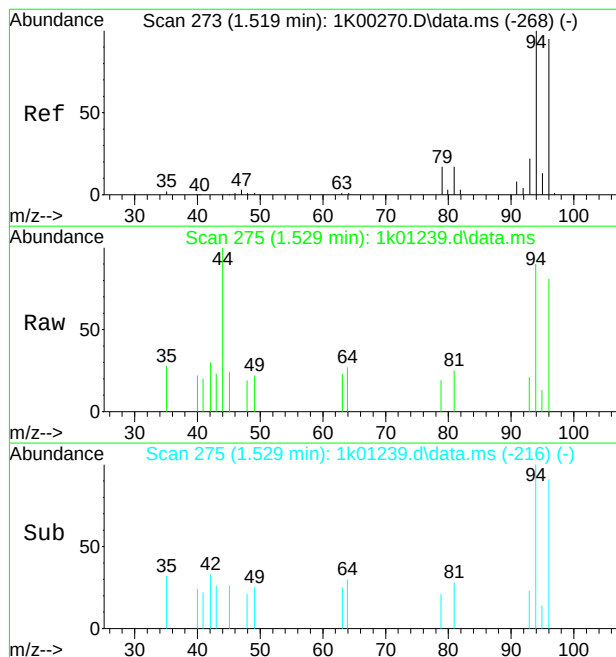
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

```
Data Path : C:\msdchem\1\data\renee\5.November\11-03-22\v1k38\
Data File : 1k01239.d
Acq On    : 2 Nov 2022    1:13 pm
Operator  : taylors
Sample    : jd54605-4                      Inst      : GCMS K
Misc      : MS63572,V1K0038,5,,,,,50
ALS Vial  : 18      Sample Multiplier: 1
```

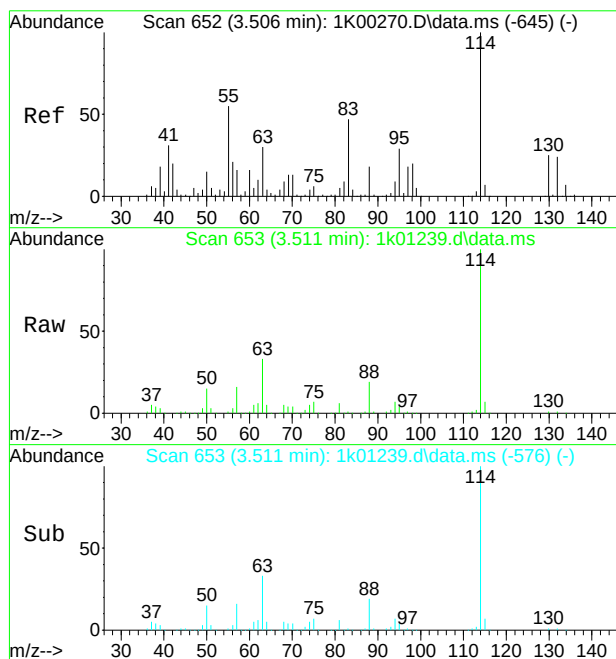
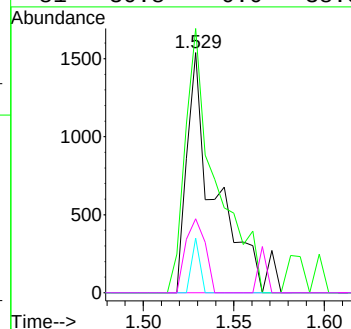
Quant Method : C:\msdchem\1\methods\M1K11.M  
Quant Results File: M1K11.RES  
Quant Time: Nov 03 00:49:01 2022  
Quant Title : SW-846 Method 8260D, column Rtx-VMS 20m x 0.18 id x 1.0 um  
QLast Update : Mon Oct 17 15:20:12 2022  
Response via : Initial Calibration





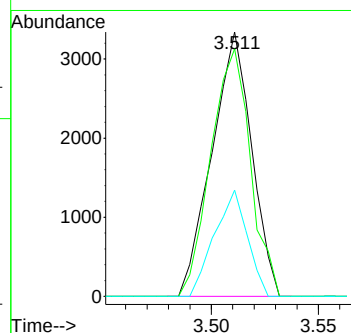
#11  
bromomethane  
Concen: 1.39 ug/L  
RT: 1.529 min Scan# 275  
Delta R.T. 0.010 min  
Lab File: 1k01239.d  
Acq: 2 Nov 2022 1:13 pm

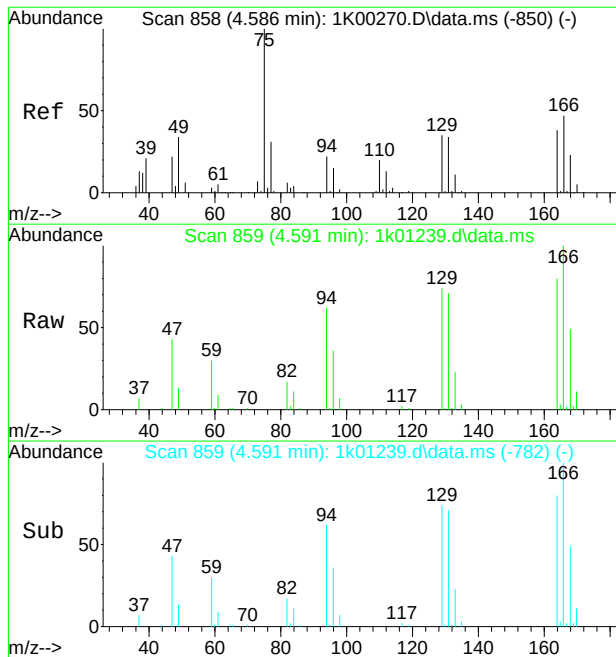
| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 96      | 100   | 1728 |       |       |
| 94      | 110.1 | 74.9 | 134.9 |       |
| 79      | 22.8  | 18.3 | 18.3# |       |
| 81      | 30.8  | 0.0  | 38.3  |       |



#60  
trichloroethene  
Concen: 1.74 ug/L  
RT: 3.511 min Scan# 653  
Delta R.T. 0.005 min  
Lab File: 1k01239.d  
Acq: 2 Nov 2022 1:13 pm

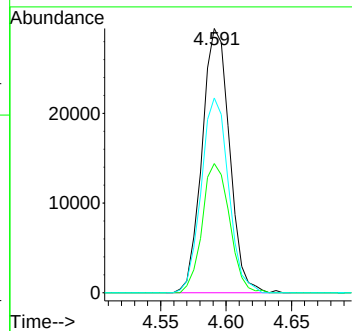
| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 130     | 100   | 4308 |       |       |
| 132     | 93.6  | 66.7 | 126.7 |       |
| 134     | 40.2  | 0.6  | 60.6  |       |





#78  
 tetrachloroethene  
 Concen: 19.48 ug/L  
 RT: 4.591 min Scan# 859  
 Delta R.T. 0.005 min  
 Lab File: 1k01239.d  
 Acq: 2 Nov 2022 1:13 pm

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 166   | Resp: | 42966 |
| Ion Ratio | Lower | Upper |       |
| 166       | 100   |       |       |
| 168       | 48.9  | 17.8  | 77.8  |
| 129       | 73.7  | 43.9  | 103.9 |



Quantitation Report (QT Reviewed)

Data Path : R:\remote\voa-gcms\complete\2022\dayton 202211\11-03-2022\angieg\v2u2018\  
Data File : 2u49699.d  
Acq On : 1 Nov 2022 11:51 pm  
Operator : edwardd  
Sample : JD54605-4  
Misc : MS63572,V2U2018,5,,,,,4  
ALS Vial : 62 Sample Multiplier: 1

Quant Time: Nov 03 16:16:46 2022  
Quant Method : C:\MSDCHEM\1\METHODS\M2U2015.M  
Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um  
QLast Update : Wed Nov 02 12:34:58 2022  
Response via : Initial Calibration

| Compound                      | R.T.           | QIon | Response   | Conc    | Units | Dev(Min) |
|-------------------------------|----------------|------|------------|---------|-------|----------|
| Internal Standards            |                |      |            |         |       |          |
| 1) tert butyl alcohol-d9      | 2.056          | 65   | 329131     | 500.00  | ug/L  | 0.00     |
| 5) pentafluorobenzene         | 2.994          | 168  | 337392     | 50.00   | ug/L  | 0.00     |
| 50) 1,4-difluorobenzene       | 3.293          | 114  | 466536     | 50.00   | ug/L  | 0.00     |
| 72) chlorobenzene-d5          | 5.091          | 117  | 437625     | 50.00   | ug/L  | 0.00     |
| 95) 1,4-dichlorobenzene-d4    | 6.827          | 152  | 220431     | 50.00   | ug/L  | 0.00     |
| System Monitoring Compounds   |                |      |            |         |       |          |
| 42) dibromofluoromethane (s)  | 2.774          | 113  | 168121     | 51.16   | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 75 - 127 |      | Recovery = | 102.32% |       |          |
| 51) 1,2-dichloroethane-d4 (s) | 3.052          | 65   | 199794     | 54.08   | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 75 - 130 |      | Recovery = | 108.16% |       |          |
| 73) toluene-d8 (s)            | 4.085          | 98   | 567138     | 52.56   | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 80 - 120 |      | Recovery = | 105.12% |       |          |
| 96) 4-bromofluorobenzene (s)  | 5.967          | 95   | 187870     | 47.77   | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 79 - 127 |      | Recovery = | 95.54%  |       |          |
| Target Compounds              |                |      |            |         |       |          |
| 25) trans-1,2-dichloroethene  | 2.035          | 61   | 3353       | 0.28    | ug/L  | 95       |
| 36) cis-1,2-dichloroethene    | 2.564          | 96   | 10439      | 5.02    | ug/L  | 98       |
| 60) trichloroethene           | 3.288          | 130  | 65384      | 28.45   | ug/L  | 97       |
| 78) tetrachloroethene         | 4.363          | 166  | 661558     | 275.16  | ug/L  | 98       |

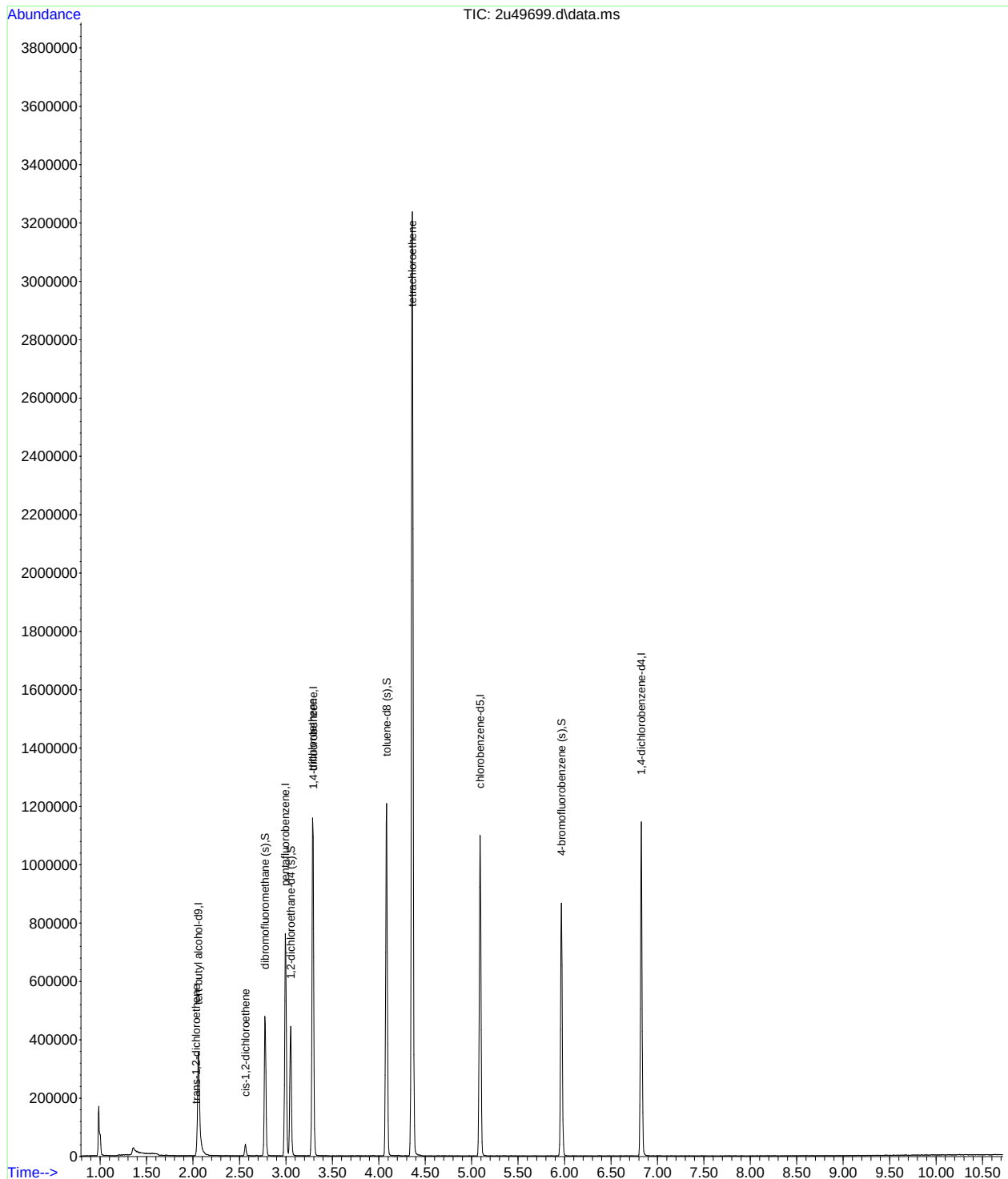
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.1.5  
7

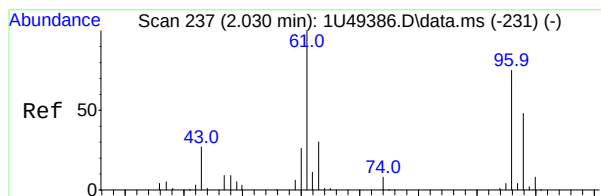
## Quantitation Report (QT Reviewed)

Data Path : R:\remote\voa-gcms\complete\2022\dayton 202211\11-03-2022\angieg\v2u2018\  
Data File : 2u49699.d  
Acq On : 1 Nov 2022 11:51 pm  
Operator : edwardd  
Sample : JD54605-4  
Misc : MS63572,V2U2018,5,,,,,4  
ALS Vial : 62 Sample Multiplier: 1

Quant Time: Nov 03 16:16:46 2022  
Quant Method : C:\MSDCHEM\1\METHODS\M2U2015.M  
Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um  
QLast Update : Wed Nov 02 12:34:58 2022  
Response via : Initial Calibration

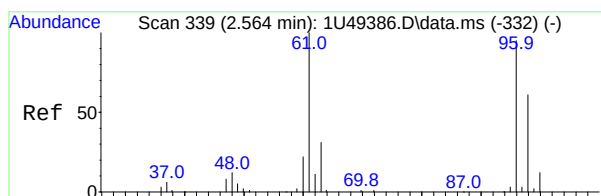
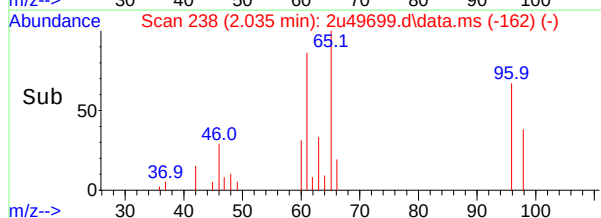
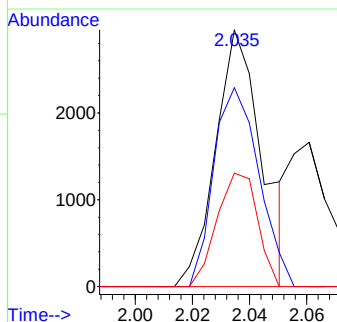
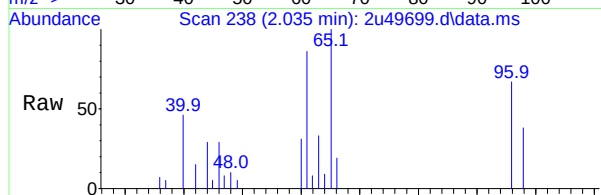






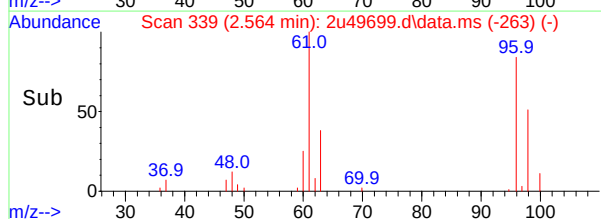
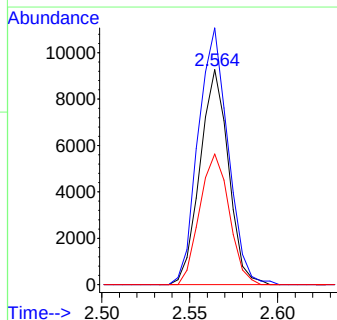
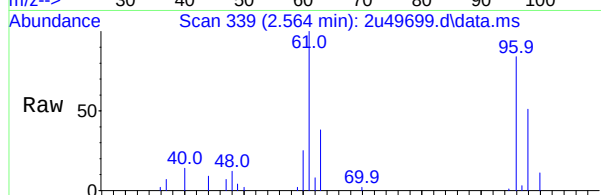
#25  
trans-1,2-dichloroethene  
Concen: 0.28 ug/L  
RT: 2.035 min Scan# 238  
Delta R.T. -0.000 min  
Lab File: 2u49699.d  
Acq: 1 Nov 2022 11:51 pm

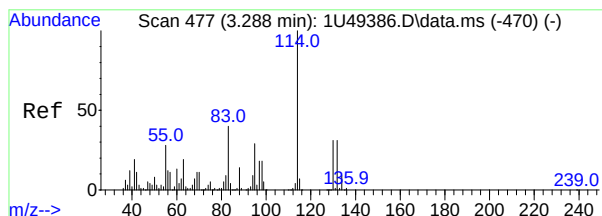
Tgt Ion: 61 Resp: 3353  
Ion Ratio Lower Upper  
61 100  
96 77.5 49.6 109.6  
98 44.2 21.0 81.0



#36  
cis-1,2-dichloroethene  
Concen: 5.02 ug/L  
RT: 2.564 min Scan# 339  
Delta R.T. 0.000 min  
Lab File: 2u49699.d  
Acq: 1 Nov 2022 11:51 pm

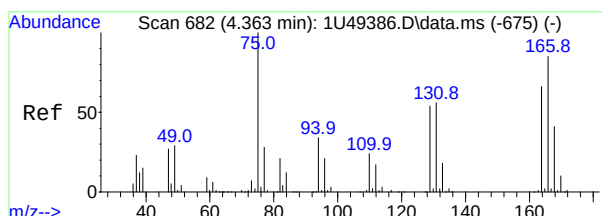
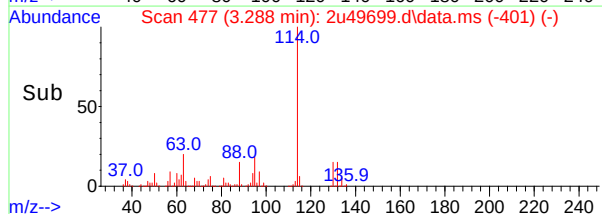
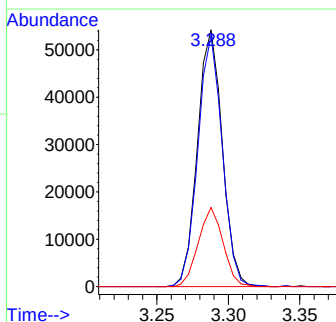
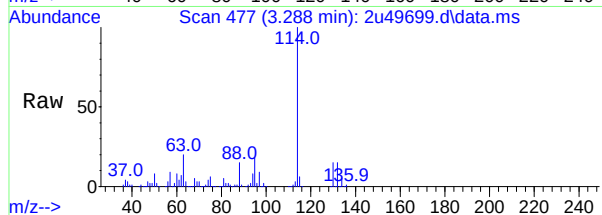
Tgt Ion: 96 Resp: 10439  
Ion Ratio Lower Upper  
96 100  
61 119.5 88.2 148.2  
98 60.8 33.7 93.7





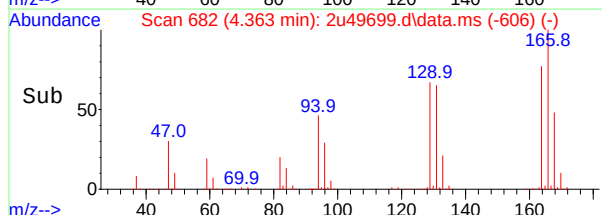
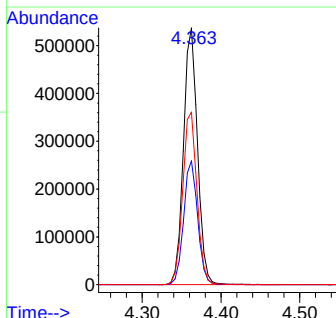
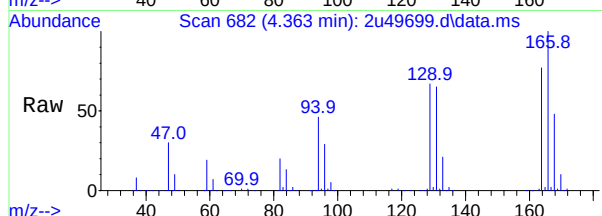
#60  
trichloroethene  
Concen: 28.45 ug/L  
RT: 3.288 min Scan# 477  
Delta R.T. -0.000 min  
Lab File: 2u49699.d  
Acq: 1 Nov 2022 11:51 pm

Tgt Ion:130 Resp: 65384  
Ion Ratio Lower Upper  
130 100  
132 97.9 64.8 124.8  
134 30.8 0.0 59.7



#78  
tetrachloroethene  
Concen: 275.16 ug/L  
RT: 4.363 min Scan# 682  
Delta R.T. 0.001 min  
Lab File: 2u49699.d  
Acq: 1 Nov 2022 11:51 pm

Tgt Ion:166 Resp: 661558  
Ion Ratio Lower Upper  
166 100  
168 48.2 15.6 75.6  
129 67.2 36.1 96.1



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\Angieg\November 2022\nov. 3, 2022\v1u2018\  
 Data File : 1u49700.d  
 Acq On : 2 Nov 2022 12:05 am  
 Operator : edwardd  
 Sample : JD54605-5 Inst : GCMS-U  
 Misc : MS63572,V1U2018,5,,,,10  
 ALS Vial : 63 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1U2015.M

Quant Results File: M1U2015.RES

Quant Time: Nov 03 15:35:54 2022

Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um

QLast Update : Wed Nov 02 11:15:22 2022

Response via : Initial Calibration

| Compound                      | R.T.           | QIon | Response   | Conc    | Units | Dev(Min) |
|-------------------------------|----------------|------|------------|---------|-------|----------|
| Internal Standards            |                |      |            |         |       |          |
| 1) tert butyl alcohol-d9      | 2.061          | 65   | 301688     | 500.00  | ug/L  | 0.00     |
| 5) pentafluorobenzene         | 2.999          | 168  | 370701     | 50.00   | ug/L  | 0.00     |
| 50) 1,4-difluorobenzene       | 3.293          | 114  | 498926     | 50.00   | ug/L  | 0.00     |
| 72) chlorobenzene-d5          | 5.091          | 117  | 462026     | 50.00   | ug/L  | 0.00     |
| 95) 1,4-dichlorobenzene-d4    | 6.827          | 152  | 213032     | 50.00   | ug/L  | 0.00     |
| System Monitoring Compounds   |                |      |            |         |       |          |
| 42) dibromofluoromethane (s)  | 2.779          | 113  | 184003     | 51.15   | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 75 - 127 |      | Recovery = | 102.30% |       |          |
| 51) 1,2-dichloroethane-d4 (s) | 3.052          | 65   | 213861     | 54.28   | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 75 - 130 |      | Recovery = | 108.56% |       |          |
| 73) toluene-d8 (s)            | 4.085          | 98   | 613597     | 52.66   | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 80 - 120 |      | Recovery = | 105.32% |       |          |
| 96) 4-bromofluorobenzene (s)  | 5.967          | 95   | 192005     | 48.18   | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 79 - 127 |      | Recovery = | 96.36%  |       |          |
| Target Compounds              |                |      |            |         |       |          |
| 36) cis-1,2-dichloroethene    | 2.564          | 96   | 2150       | 0.95    | ug/L  | 94       |
| 60) trichloroethene           | 3.288          | 130  | 2538       | 1.01    | ug/L  | 95       |
| 78) tetrachloroethene         | 4.363          | 166  | 440171     | 169.43  | ug/L  | 99       |

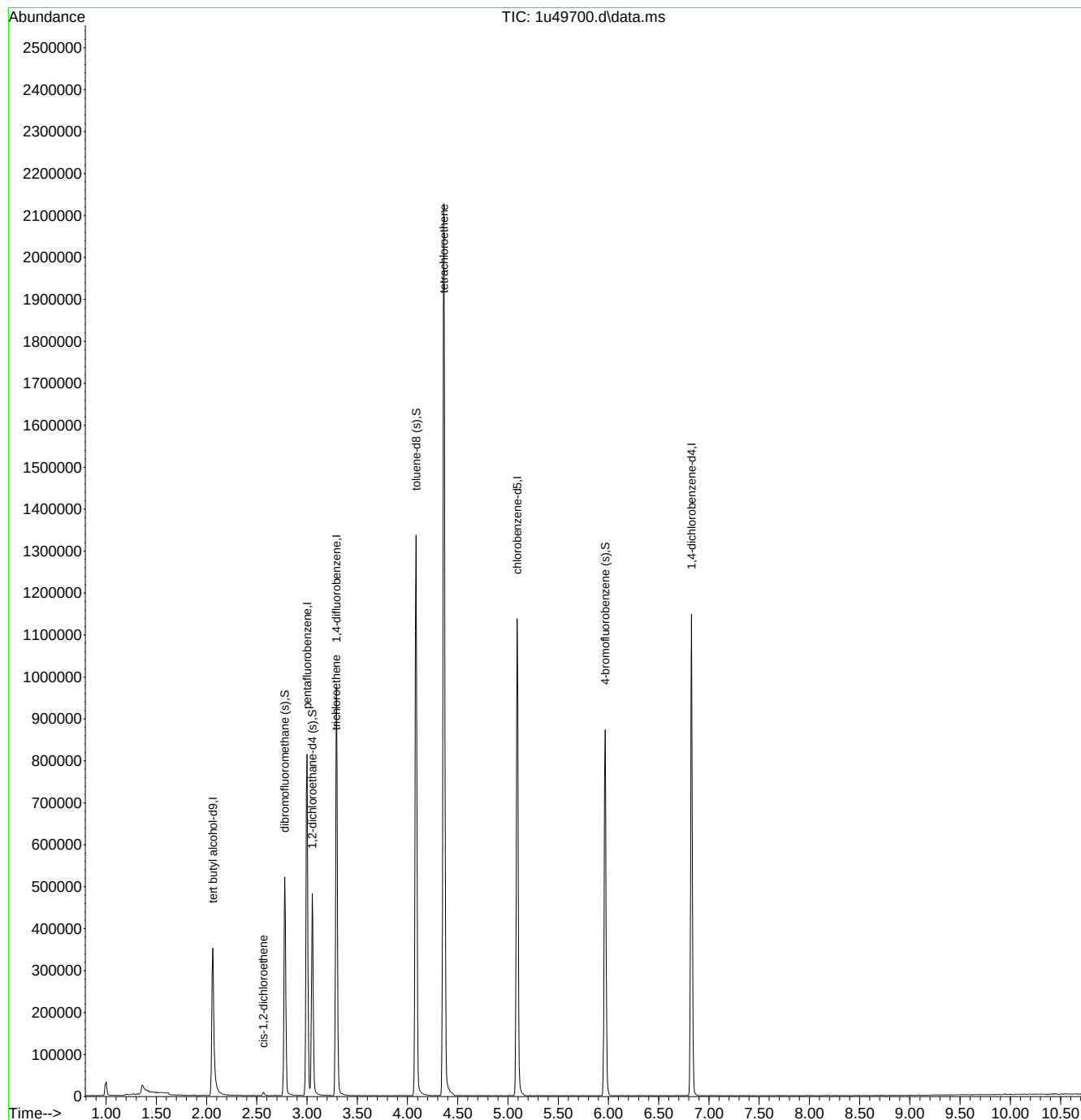
(#) = qualifier out of range (m) = manual integration (+) = signals summed

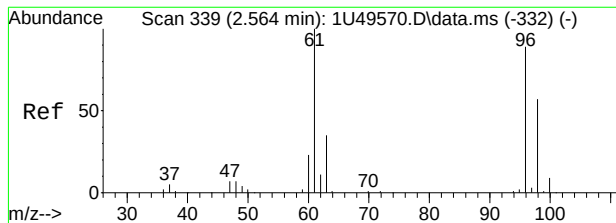
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\Angieg\November 2022\nov. 3, 2022\v1u2018\  
 Data File : 1u49700.d  
 Acq On : 2 Nov 2022 12:05 am  
 Operator : edwardd  
 Sample : JD54605-5  
 Misc : MS63572,V1U2018,5,,,,10  
 ALS Vial : 63 Sample Multiplier: 1

Inst : GCMS-U

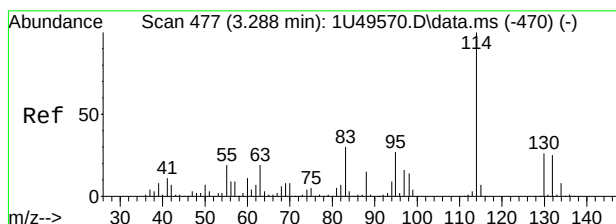
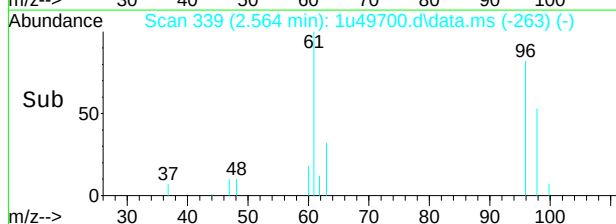
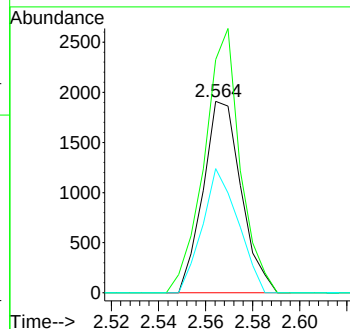
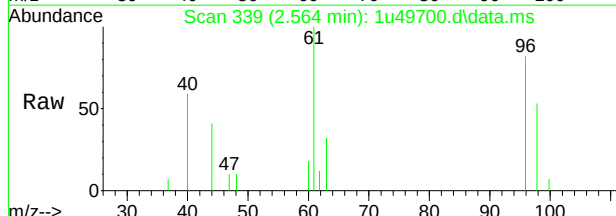
Quant Method : C:\MSDCHEM\1\METHODS\M1U2015.M  
 Quant Results File: M1U2015.RES  
 Quant Time: Nov 03 15:35:54 2022  
 Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um  
 QLast Update : Wed Nov 02 11:15:22 2022  
 Response via : Initial Calibration





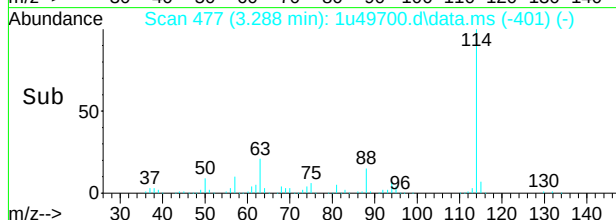
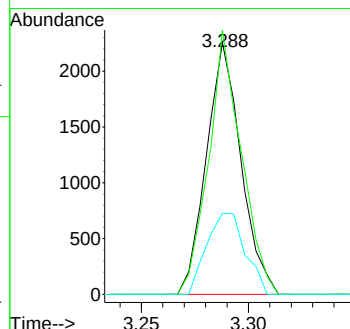
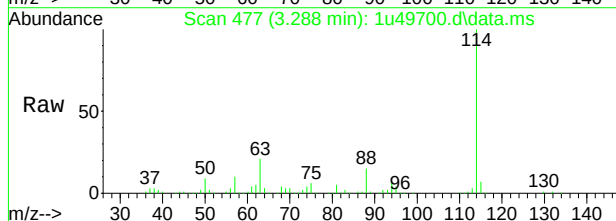
#36  
cis-1,2-dichloroethene  
Concen: 0.95 ug/L  
RT: 2.564 min Scan# 339  
Delta R.T. 0.000 min  
Lab File: 1u49700.d  
Acq: 2 Nov 2022 12:05 am

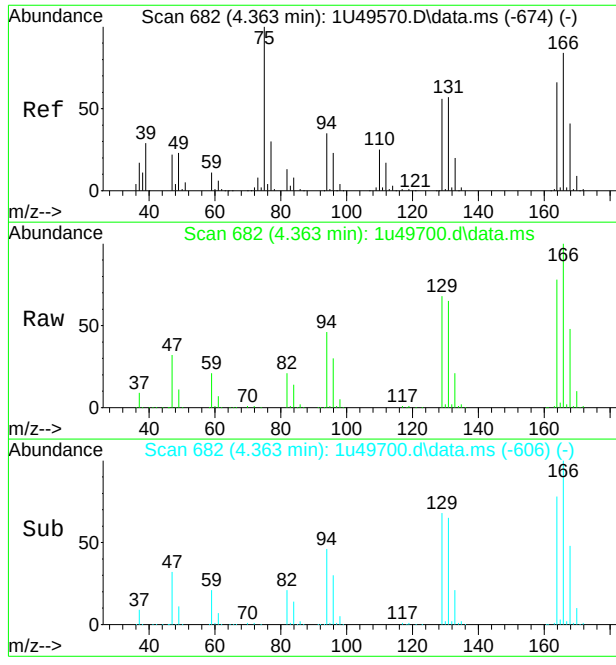
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 96    | Resp: | 2150  |
| Ion      | Ratio | Lower | Upper |
| 96       | 100   |       |       |
| 61       | 121.7 | 81.9  | 141.9 |
| 98       | 64.9  | 34.2  | 94.2  |



#60  
trichloroethene  
Concen: 1.01 ug/L  
RT: 3.288 min Scan# 477  
Delta R.T. -0.000 min  
Lab File: 1u49700.d  
Acq: 2 Nov 2022 12:05 am

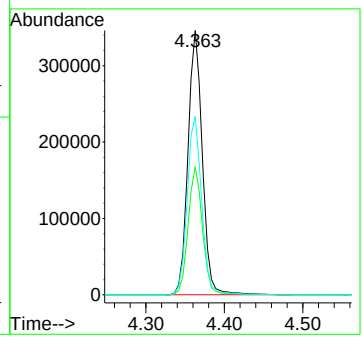
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 130   | Resp: | 2538  |
| Ion      | Ratio | Lower | Upper |
| 130      | 100   |       |       |
| 132      | 105.0 | 68.6  | 128.6 |
| 134      | 32.2  | 2.1   | 62.1  |





#78  
tetrachloroethene  
Concen: 169.43 ug/L  
RT: 4.363 min Scan# 682  
Delta R.T. -0.000 min  
Lab File: 1u49700.d  
Acq: 2 Nov 2022 12:05 am

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 166   | Resp: | 440171 |
| Ion Ratio | Lower | Upper |        |
| 166       | 100   |       |        |
| 168       | 48.4  | 19.2  | 79.2   |
| 129       | 67.6  | 37.0  | 97.0   |



7.1.6  
7

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\Angieg\November 2022\nov. 3, 2022\v1u2018\  
 Data File : 1u49724.d  
 Acq On : 2 Nov 2022 5:54 am  
 Operator : edwardd  
 Sample : JD54605-6 Inst : GCMS-U  
 Misc : MS63572,V1U2018,5,,,,,1  
 ALS Vial : 87 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1U2015.M  
 Quant Results File: M1U2015.RES  
 Quant Time: Nov 03 16:29:55 2022  
 Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um  
 QLast Update : Wed Nov 02 11:15:22 2022  
 Response via : Initial Calibration

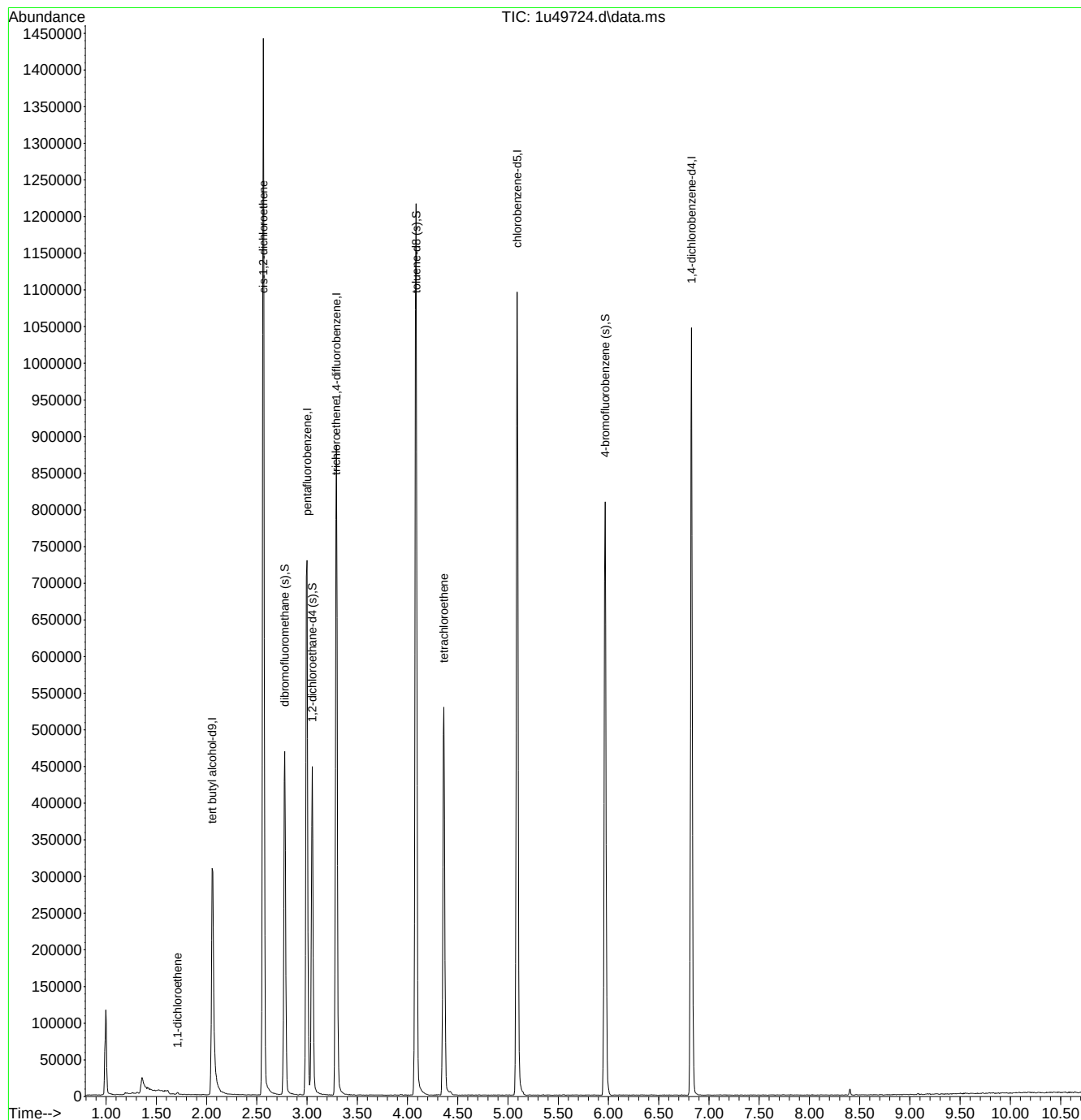
| Compound                      | R.T.           | QIon | Response   | Conc    | Units | Dev(Min) |
|-------------------------------|----------------|------|------------|---------|-------|----------|
| Internal Standards            |                |      |            |         |       |          |
| 1) tert butyl alcohol-d9      | 2.056          | 65   | 277238     | 500.00  | ug/L  | 0.00     |
| 5) pentafluorobenzene         | 2.999          | 168  | 342401     | 50.00   | ug/L  | 0.00     |
| 50) 1,4-difluorobenzene       | 3.293          | 114  | 464921     | 50.00   | ug/L  | 0.00     |
| 72) chlorobenzene-d5          | 5.091          | 117  | 437038     | 50.00   | ug/L  | 0.00     |
| 95) 1,4-dichlorobenzene-d4    | 6.827          | 152  | 200122     | 50.00   | ug/L  | 0.00     |
| System Monitoring Compounds   |                |      |            |         |       |          |
| 42) dibromofluoromethane (s)  | 2.779          | 113  | 169610     | 51.05   | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 75 - 127 |      | Recovery = | 102.10% |       |          |
| 51) 1,2-dichloroethane-d4 (s) | 3.052          | 65   | 200218     | 54.54   | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 75 - 130 |      | Recovery = | 109.08% |       |          |
| 73) toluene-d8 (s)            | 4.085          | 98   | 565388     | 51.29   | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 80 - 120 |      | Recovery = | 102.58% |       |          |
| 96) 4-bromofluorobenzene (s)  | 5.967          | 95   | 178322     | 47.63   | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 79 - 127 |      | Recovery = | 95.26%  |       |          |
| Target Compounds              |                |      |            |         |       |          |
| 17) 1,1-dichloroethene        | 1.710          | 61   | 805        | 0.27    | ug/L  | 74       |
| 36) cis-1,2-dichloroethene    | 2.564          | 96   | 372509     | 177.45  | ug/L  | 92       |
| 60) trichloroethene           | 3.288          | 130  | 4837       | 2.07    | ug/L  | 87       |
| 78) tetrachloroethene         | 4.363          | 166  | 111984     | 45.57   | ug/L  | 98       |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

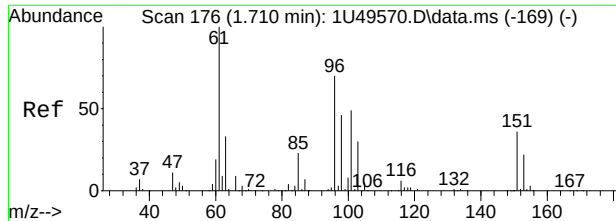
Quantitation Report (QT Reviewed)

```
Data Path : C:\msdchem\1\data\Angieg\November 2022\nov. 3, 2022\v1u2018\  
Data File : 1u49724.d  
Acq On : 2 Nov 2022 5:54 am  
Operator : edwardd  
Sample : JD54605-6 Inst : GCMS-U  
Misc : MS63572,V1U2018,5,,,,1  
ALS Vial : 87 Sample Multiplier: 1
```

Quant Method : C:\MSDCHEM\1\METHODS\M1U2015.M  
Quant Results File: M1U2015.RES  
Quant Time: Nov 03 16:29:55 2022  
Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um  
QLast Update : Wed Nov 02 11:15:22 2022  
Response via : Initial Calibration

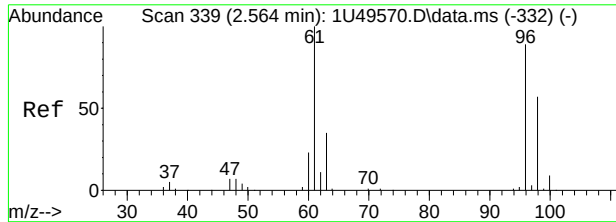
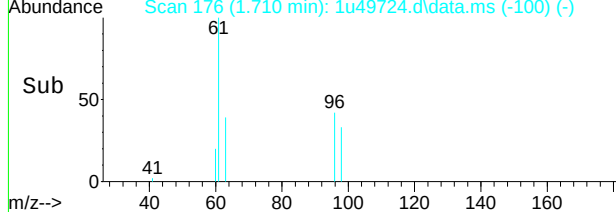
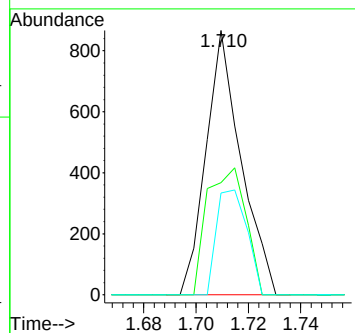
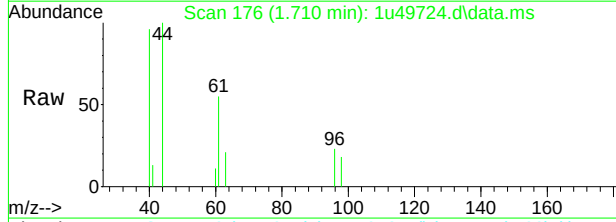






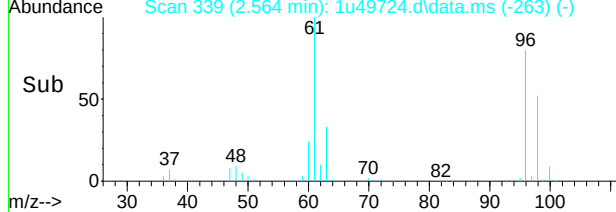
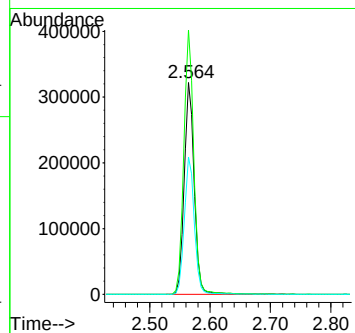
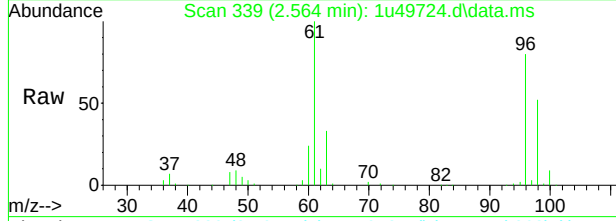
#17  
1,1-dichloroethene  
Concen: 0.27 ug/L  
RT: 1.710 min Scan# 176  
Delta R.T. -0.000 min  
Lab File: 1u49724.d  
Acq: 2 Nov 2022 5:54 am

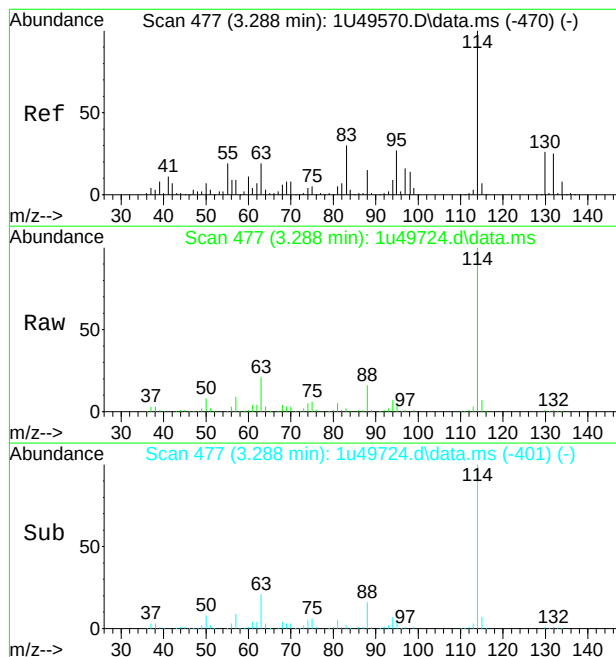
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 61    | Resp: | 805   |
| Ion      | Ratio | Lower | Upper |
| 61       | 100   |       |       |
| 96       | 42.4  | 39.9  | 99.9  |
| 63       | 38.5  | 2.7   | 62.7  |



#36  
cis-1,2-dichloroethene  
Concen: 177.45 ug/L  
RT: 2.564 min Scan# 339  
Delta R.T. 0.000 min  
Lab File: 1u49724.d  
Acq: 2 Nov 2022 5:54 am

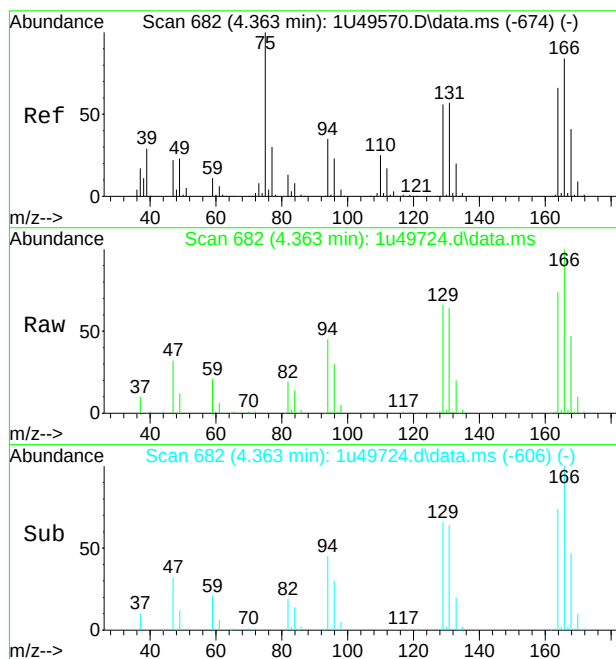
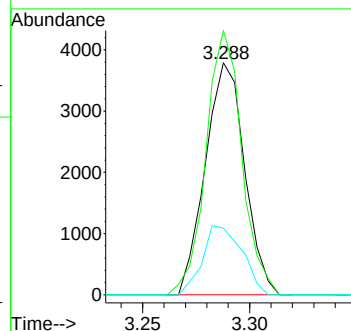
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 96    | Resp: | 372509 |
| Ion      | Ratio | Lower | Upper  |
| 96       | 100   |       |        |
| 61       | 124.8 | 81.9  | 141.9  |
| 98       | 64.8  | 34.2  | 94.2   |





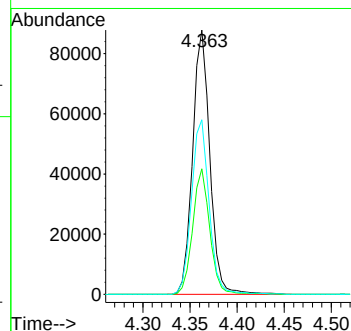
#60  
trichloroethene  
Concen: 2.07 ug/L  
RT: 3.288 min Scan# 477  
Delta R.T. -0.000 min  
Lab File: 1u49724.d  
Acq: 2 Nov 2022 5:54 am

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 130   | Resp: | 4837  |
| Ion Ratio | Lower | Upper |       |
| 130       | 100   |       |       |
| 132       | 114.0 | 68.6  | 128.6 |
| 134       | 28.7  | 2.1   | 62.1  |



#78  
tetrachloroethene  
Concen: 45.57 ug/L  
RT: 4.363 min Scan# 682  
Delta R.T. -0.000 min  
Lab File: 1u49724.d  
Acq: 2 Nov 2022 5:54 am

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 166   | Resp: | 111984 |
| Ion Ratio | Lower | Upper |        |
| 166       | 100   |       |        |
| 168       | 47.5  | 19.2  | 79.2   |
| 129       | 66.0  | 37.0  | 97.0   |



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\Angieg\November 2022\nov. 3, 2022\v2u2018\  
 Data File : 2u49725.d  
 Acq On : 2 Nov 2022 6:09 am  
 Operator : edwardd  
 Sample : JD54605-7 Inst : GCMS-U  
 Misc : MS63572,V2U2018,5,,,,,1  
 ALS Vial : 88 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2U2015.M  
 Quant Results File: M2U2015.RES  
 Quant Time: Nov 03 19:36:29 2022  
 Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um  
 QLast Update : Wed Nov 02 12:34:58 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|-------|----------|
| Internal Standards            |        |       |          |          |       |          |
| 1) tert butyl alcohol-d9      | 2.056  | 65    | 301921   | 500.00   | ug/L  | 0.00     |
| 5) pentafluorobenzene         | 2.994  | 168   | 315869   | 50.00    | ug/L  | 0.00     |
| 50) 1,4-difluorobenzene       | 3.293  | 114   | 431710   | 50.00    | ug/L  | 0.00     |
| 72) chlorobenzene-d5          | 5.091  | 117   | 413743   | 50.00    | ug/L  | 0.00     |
| 95) 1,4-dichlorobenzene-d4    | 6.827  | 152   | 204163   | 50.00    | ug/L  | 0.00     |
| System Monitoring Compounds   |        |       |          |          |       |          |
| 42) dibromofluoromethane (s)  | 2.774  | 113   | 156530   | 50.88    | ug/L  | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 127 | Recovery | =     | 101.76%  |
| 51) 1,2-dichloroethane-d4 (s) | 3.052  | 65    | 185177   | 54.17    | ug/L  | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 130 | Recovery | =     | 108.34%  |
| 73) toluene-d8 (s)            | 4.085  | 98    | 530572   | 52.01    | ug/L  | 0.00     |
| Spiked Amount                 | 50.000 | Range | 80 - 120 | Recovery | =     | 104.02%  |
| 96) 4-bromofluorobenzene (s)  | 5.967  | 95    | 176441   | 48.44    | ug/L  | 0.00     |
| Spiked Amount                 | 50.000 | Range | 79 - 127 | Recovery | =     | 96.88%   |
| Target Compounds              |        |       |          |          |       |          |
| 36) cis-1,2-dichloroethene    | 2.564  | 96    | 1205     | 0.62     | ug/L  | 91       |
| 60) trichloroethene           | 3.288  | 130   | 2170     | 1.02     | ug/L  | 87       |
| 78) tetrachloroethene         | 4.363  | 166   | 277255   | 121.98   | ug/L  | 97       |

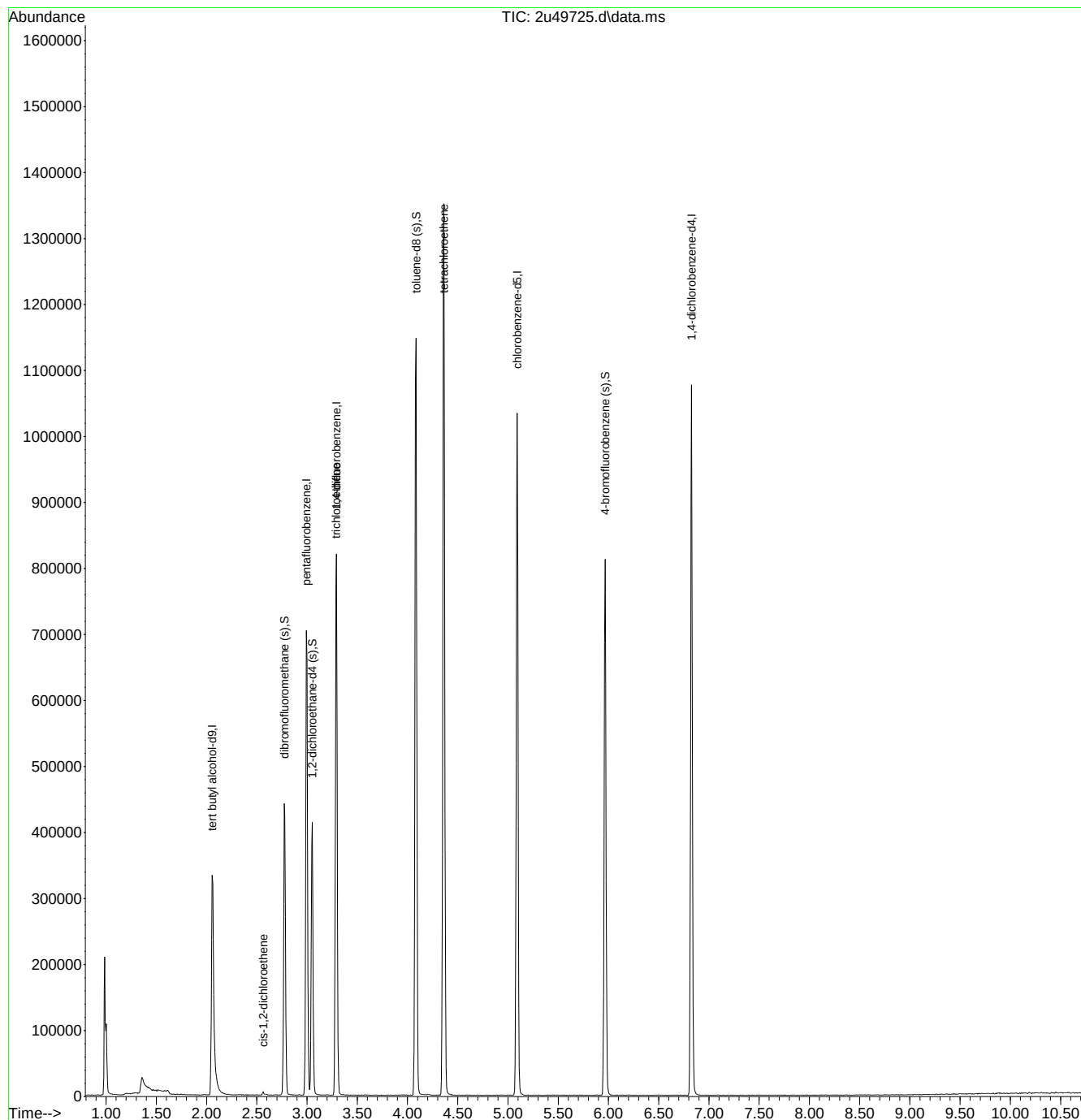
(#) = qualifier out of range (m) = manual integration (+) = signals summed

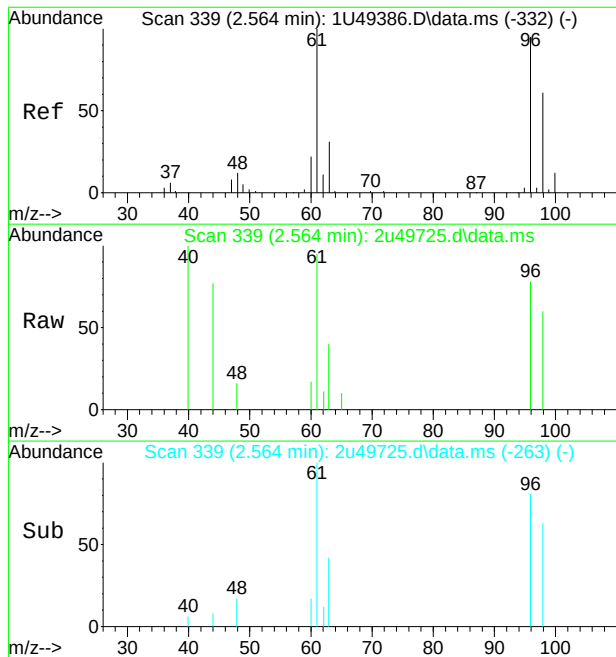
## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\Angieg\November 2022\nov. 3, 2022\v2u2018\  
Data File : 2u49725.d  
Acq On : 2 Nov 2022 6:09 am  
Operator : edwardd  
Sample : JD54605-7  
Misc : MS63572,V2U2018,5,,,,1  
ALS Vial : 88 Sample Multiplier: 1

Inst : GCMS-U

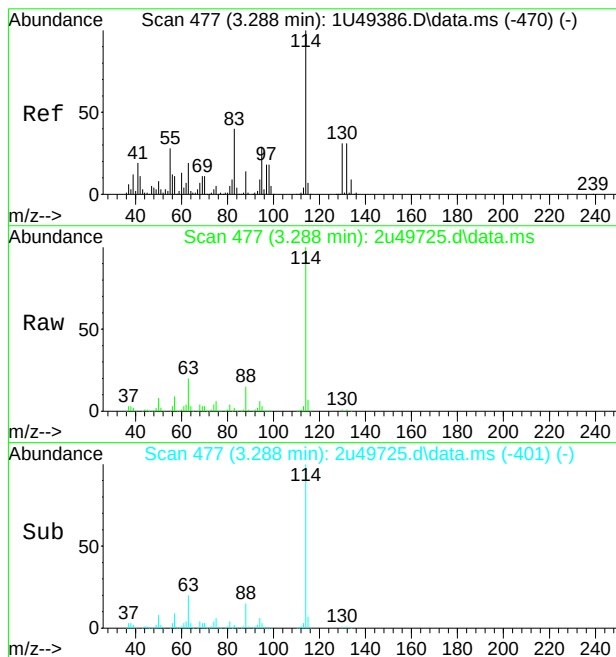
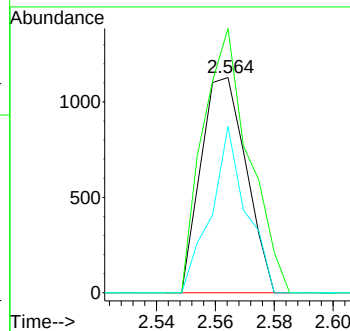
Quant Method : C:\MSDCHEM\1\METHODS\M2U2015.M  
Quant Results File: M2U2015.RES  
Quant Time: Nov 03 19:36:29 2022  
Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um  
QLast Update : Wed Nov 02 12:34:58 2022  
Response via : Initial Calibration





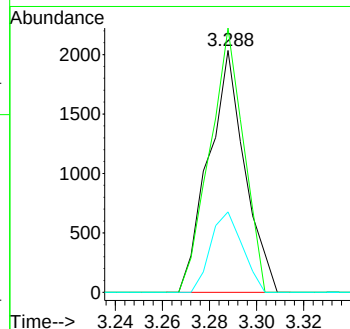
#36  
cis-1,2-dichloroethene  
Concen: 0.62 ug/L  
RT: 2.564 min Scan# 339  
Delta R.T. 0.000 min  
Lab File: 2u49725.d  
Acq: 2 Nov 2022 6:09 am

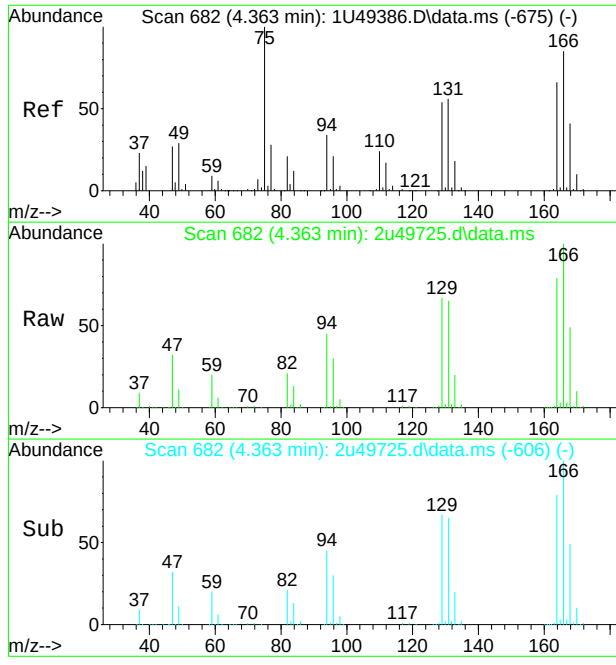
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 96    | Resp: | 1205  |
| Ion      | Ratio | Lower | Upper |
| 96       | 100   |       |       |
| 61       | 122.9 | 88.2  | 148.2 |
| 98       | 77.4  | 33.7  | 93.7  |



#60  
trichloroethene  
Concen: 1.02 ug/L  
RT: 3.288 min Scan# 477  
Delta R.T. -0.000 min  
Lab File: 2u49725.d  
Acq: 2 Nov 2022 6:09 am

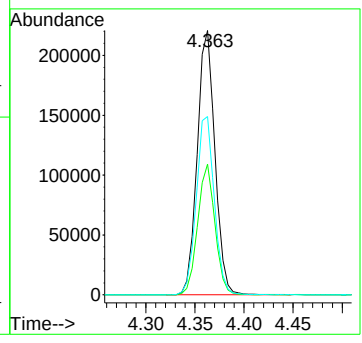
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 130   | Resp: | 2170  |
| Ion      | Ratio | Lower | Upper |
| 130      | 100   |       |       |
| 132      | 109.3 | 64.8  | 124.8 |
| 134      | 33.3  | 0.0   | 59.7  |





#78  
tetrachloroethene  
Concen: 121.98 ug/L  
RT: 4.363 min Scan# 682  
Delta R.T. 0.001 min  
Lab File: 2u49725.d  
Acq: 2 Nov 2022 6:09 am

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 166   | Resp: | 277255 |
| Ion Ratio | Lower | Upper |        |
| 166       | 100   |       |        |
| 168       | 49.4  | 15.6  | 75.6   |
| 129       | 67.4  | 36.1  | 96.1   |



7.1.8  
7

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\Angieg\November 2022\nov. 3, 2022\v1u2018\  
 Data File : 1u49726.d  
 Acq On : 2 Nov 2022 6:23 am  
 Operator : edwardd  
 Sample : JD54605-8 Inst : GCMS-U  
 Misc : MS63572,V1U2018,5,,,,,1  
 ALS Vial : 89 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1U2015.M  
 Quant Results File: M1U2015.RES  
 Quant Time: Nov 03 16:33:03 2022  
 Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um  
 QLast Update : Wed Nov 02 11:15:22 2022  
 Response via : Initial Calibration

| Compound                      | R.T.           | QIon | Response   | Conc    | Units | Dev(Min) |
|-------------------------------|----------------|------|------------|---------|-------|----------|
| Internal Standards            |                |      |            |         |       |          |
| 1) tert butyl alcohol-d9      | 2.056          | 65   | 271185     | 500.00  | ug/L  | 0.00     |
| 5) pentafluorobenzene         | 2.994          | 168  | 342536     | 50.00   | ug/L  | 0.00     |
| 50) 1,4-difluorobenzene       | 3.293          | 114  | 470709     | 50.00   | ug/L  | 0.00     |
| 72) chlorobenzene-d5          | 5.091          | 117  | 433873     | 50.00   | ug/L  | 0.00     |
| 95) 1,4-dichlorobenzene-d4    | 6.827          | 152  | 201204     | 50.00   | ug/L  | 0.00     |
| System Monitoring Compounds   |                |      |            |         |       |          |
| 42) dibromofluoromethane (s)  | 2.774          | 113  | 170582     | 51.32   | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 75 - 127 |      | Recovery = | 102.64% |       |          |
| 51) 1,2-dichloroethane-d4 (s) | 3.052          | 65   | 199560     | 53.69   | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 75 - 130 |      | Recovery = | 107.38% |       |          |
| 73) toluene-d8 (s)            | 4.085          | 98   | 571728     | 52.25   | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 80 - 120 |      | Recovery = | 104.50% |       |          |
| 96) 4-bromofluorobenzene (s)  | 5.967          | 95   | 177891     | 47.26   | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 79 - 127 |      | Recovery = | 94.52%  |       |          |
| Target Compounds              |                |      |            |         |       |          |
| 36) cis-1,2-dichloroethene    | 2.569          | 96   | 2146       | 1.02    | ug/L  | 88       |
| 60) trichloroethene           | 3.282          | 130  | 2668       | 1.13    | ug/L  | 98       |
| 78) tetrachloroethene         | 4.362          | 166  | 402243     | 164.88  | ug/L  | 99       |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\Angie\November 2022\nov. 3, 2022\v1u2018\  
Data File : 1u49726.d  
Acq On : 2 Nov 2022 6:23 am  
Operator : edwardd  
Sample : JD54605-8  
Misc : MS63572,V1U2018,5,,,,,1  
ALS Vial : 89 Sample Multiplier: 1

Inst : GCMS-U

Quant Method : C:\MSDCHEM\1\METHODS\M1U2015.M

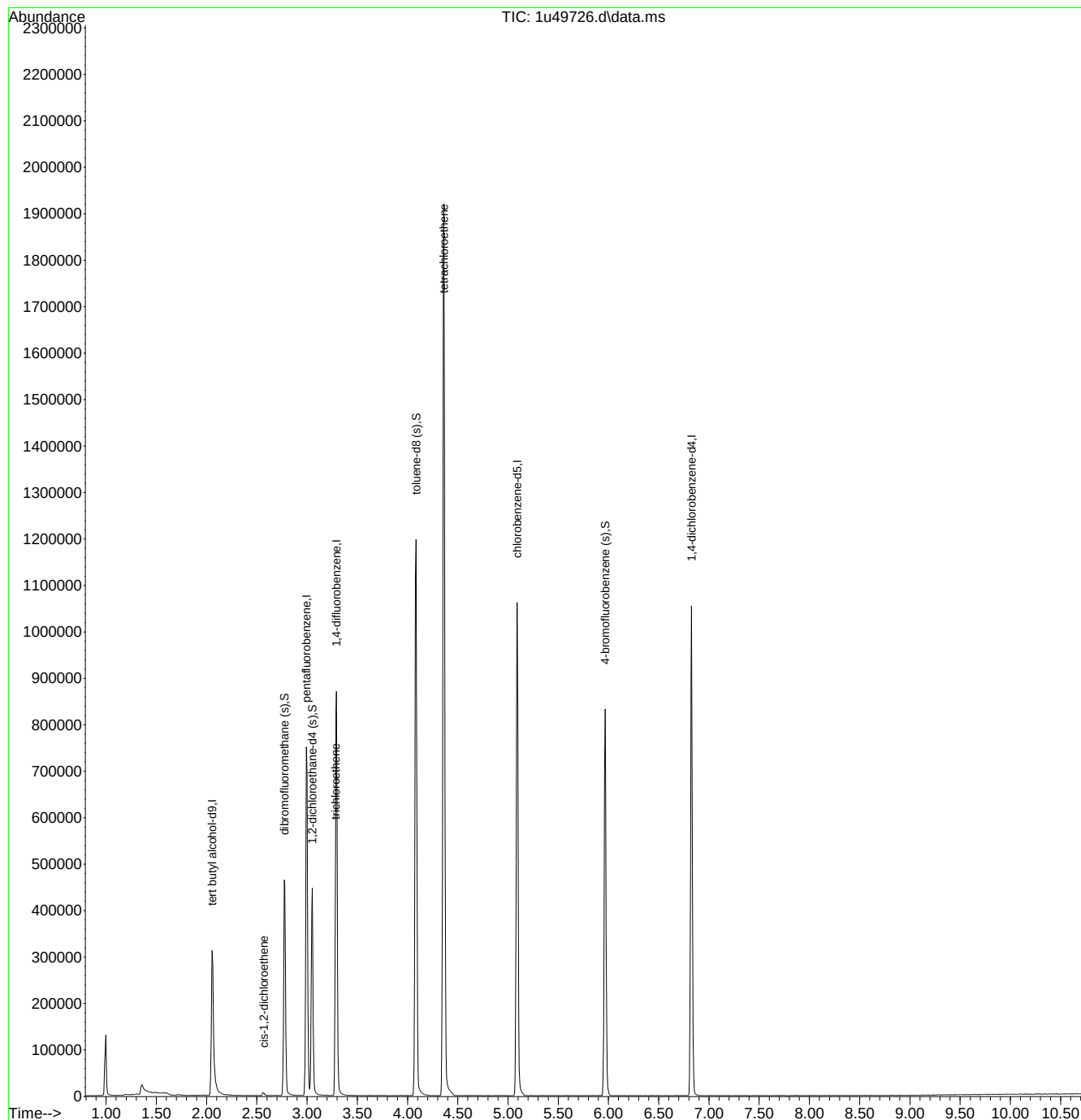
Quant Results File: M1U2015.RES

Quant Time: Nov 03 16:33:03 2022

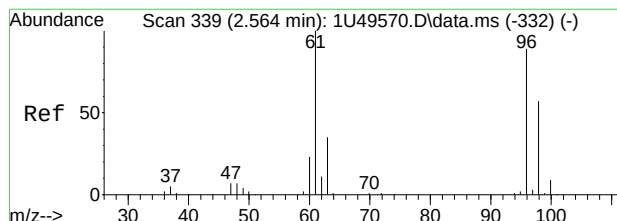
Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um

QLast Update : Wed Nov 02 11:15:22 2022

Response via : Initial Calibration

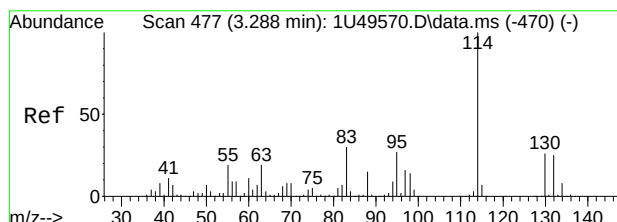
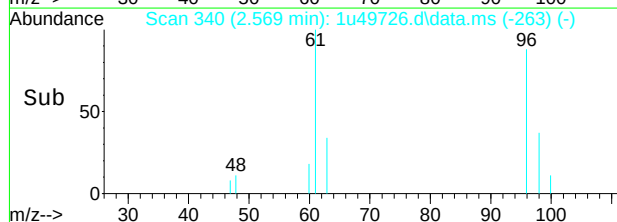
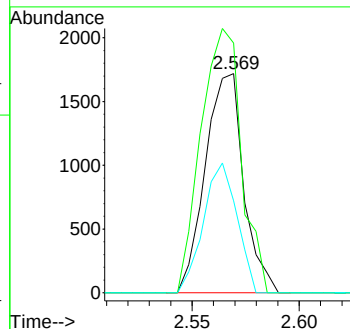
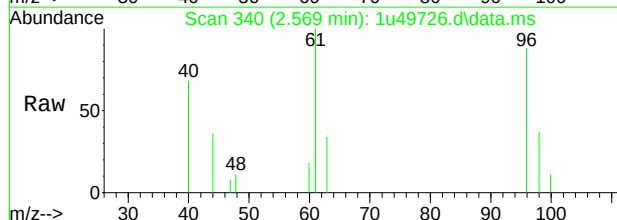






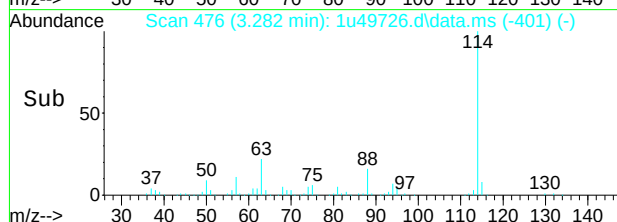
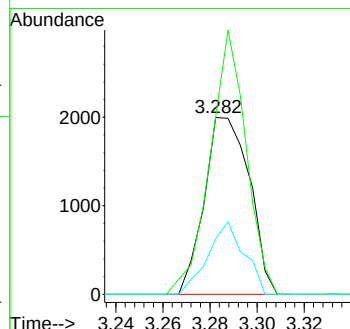
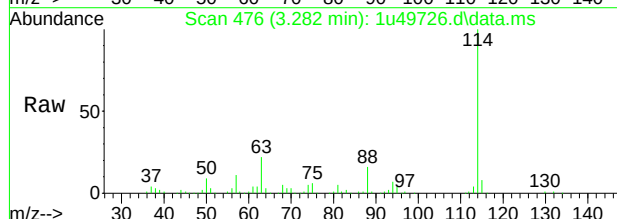
#36  
cis-1,2-dichloroethene  
Concen: 1.02 ug/L  
RT: 2.569 min Scan# 340  
Delta R.T. 0.005 min  
Lab File: 1u49726.d  
Acq: 2 Nov 2022 6:23 am

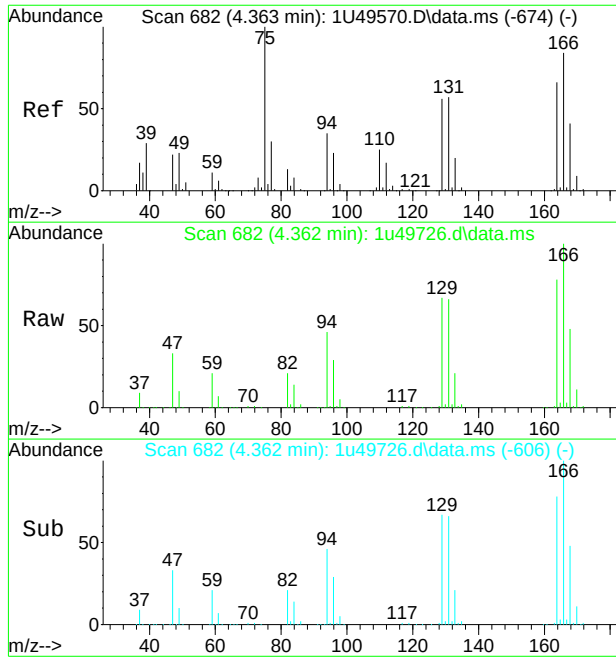
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 96    | Resp: | 2146  |
| Ion      | Ratio | Lower | Upper |
| 96       | 100   |       |       |
| 61       | 114.0 | 81.9  | 141.9 |
| 98       | 42.0  | 34.2  | 94.2  |



#60  
trichloroethene  
Concen: 1.13 ug/L  
RT: 3.282 min Scan# 476  
Delta R.T. -0.006 min  
Lab File: 1u49726.d  
Acq: 2 Nov 2022 6:23 am

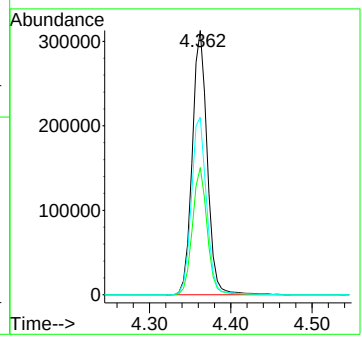
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 130   | Resp: | 2668  |
| Ion      | Ratio | Lower | Upper |
| 130      | 100   |       |       |
| 132      | 100.3 | 68.6  | 128.6 |
| 134      | 31.4  | 2.1   | 62.1  |





#78  
tetrachloroethene  
Concen: 164.88 ug/L  
RT: 4.362 min Scan# 682  
Delta R.T. -0.001 min  
Lab File: 1u49726.d  
Acq: 2 Nov 2022 6:23 am

| Tgt Ion | Ion | Ratio | Resp   | Lower | Upper |
|---------|-----|-------|--------|-------|-------|
| 166     | 166 | 100   | 402243 |       |       |
| 168     | 168 | 48.1  |        | 19.2  | 79.2  |
| 129     | 129 | 67.2  |        | 37.0  | 97.0  |



7.1.9  
7

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\Angieg\November 2022\nov. 3, 2022\v1u2018\  
 Data File : 1u49706.d  
 Acq On : 2 Nov 2022 1:33 am  
 Operator : edwardd  
 Sample : JD54605-9 Inst : GCMS-U  
 Misc : MS63572,V1U2018,5,,,,10  
 ALS Vial : 69 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1U2015.M

Quant Results File: M1U2015.RES

Quant Time: Nov 03 15:45:37 2022

Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um

QLast Update : Wed Nov 02 11:15:22 2022

Response via : Initial Calibration

| Compound                      | R.T.           | QIon | Response   | Conc    | Units | Dev(Min) |
|-------------------------------|----------------|------|------------|---------|-------|----------|
| Internal Standards            |                |      |            |         |       |          |
| 1) tert butyl alcohol-d9      | 2.061          | 65   | 333142     | 500.00  | ug/L  | 0.00     |
| 5) pentafluorobenzene         | 2.999          | 168  | 416515     | 50.00   | ug/L  | 0.00     |
| 50) 1,4-difluorobenzene       | 3.293          | 114  | 564283     | 50.00   | ug/L  | 0.00     |
| 72) chlorobenzene-d5          | 5.091          | 117  | 521551     | 50.00   | ug/L  | 0.00     |
| 95) 1,4-dichlorobenzene-d4    | 6.827          | 152  | 235910     | 50.00   | ug/L  | 0.00     |
| System Monitoring Compounds   |                |      |            |         |       |          |
| 42) dibromofluoromethane (s)  | 2.779          | 113  | 204405     | 50.58   | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 75 - 127 |      | Recovery = | 101.16% |       |          |
| 51) 1,2-dichloroethane-d4 (s) | 3.052          | 65   | 234254     | 52.57   | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 75 - 130 |      | Recovery = | 105.14% |       |          |
| 73) toluene-d8 (s)            | 4.085          | 98   | 679092     | 51.63   | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 80 - 120 |      | Recovery = | 103.26% |       |          |
| 96) 4-bromofluorobenzene (s)  | 5.967          | 95   | 221154     | 50.11   | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 79 - 127 |      | Recovery = | 100.22% |       |          |
| Target Compounds              |                |      |            |         |       |          |
| 36) cis-1,2-dichloroethene    | 2.569          | 96   | 3277       | 1.28    | ug/L  | 96       |
| 60) trichloroethene           | 3.288          | 130  | 16999      | 5.98    | ug/L  | 96       |
| 78) tetrachloroethene         | 4.362          | 166  | 103629     | 35.34   | ug/L  | 98       |

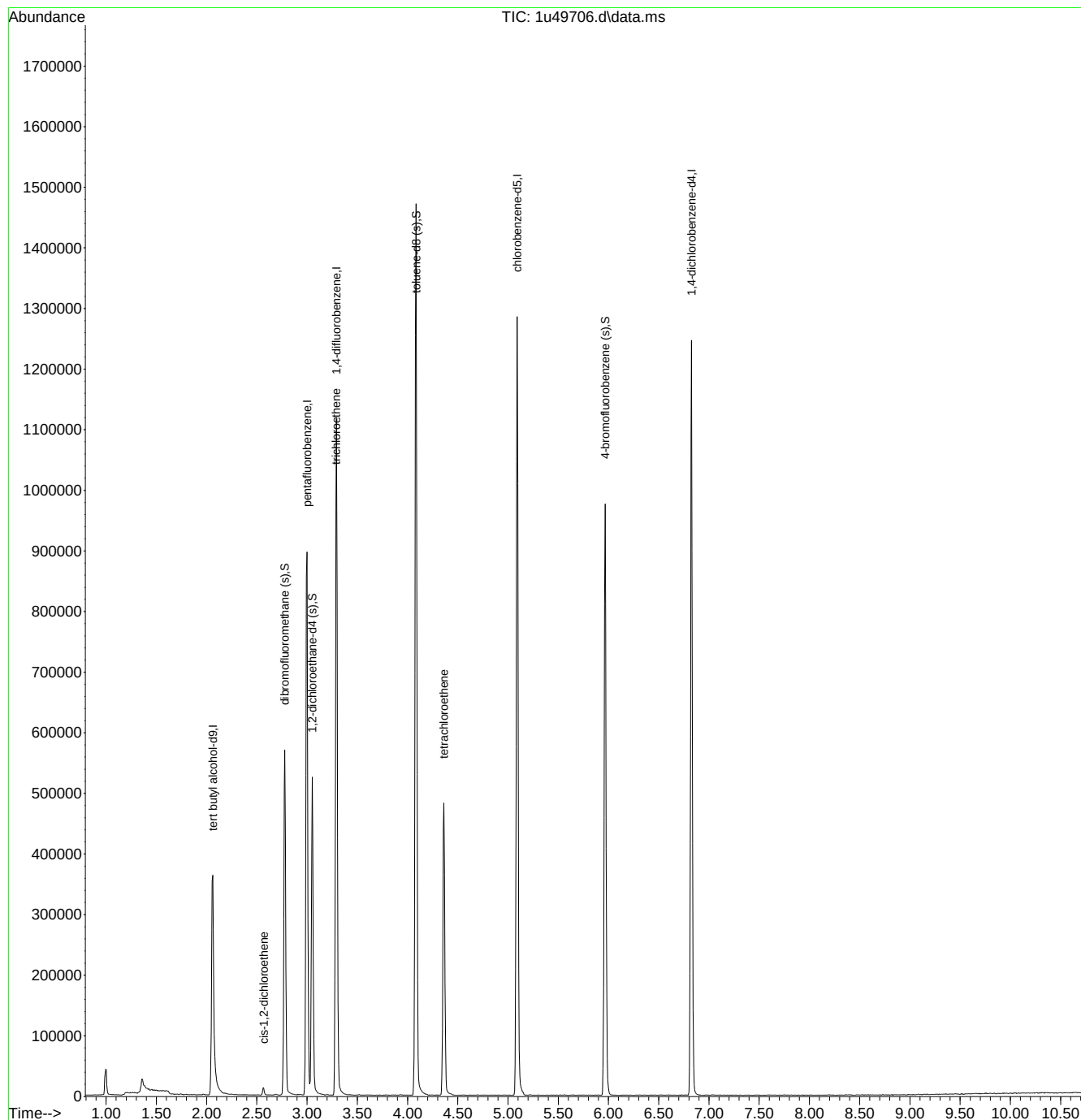
(#) = qualifier out of range (m) = manual integration (+) = signals summed

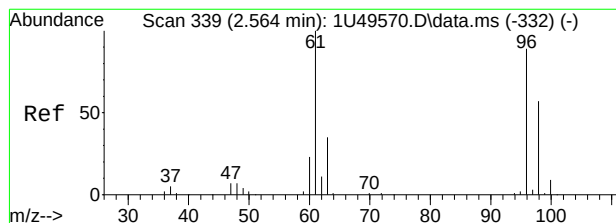
## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\Angieg\November 2022\nov. 3, 2022\v1u2018\  
Data File : 1u49706.d  
Acq On : 2 Nov 2022 1:33 am  
Operator : edwardd  
Sample : JD54605-9  
Misc : MS63572,V1U2018,5,,,,10  
ALS Vial : 69 Sample Multiplier: 1

Inst : GCMS-U

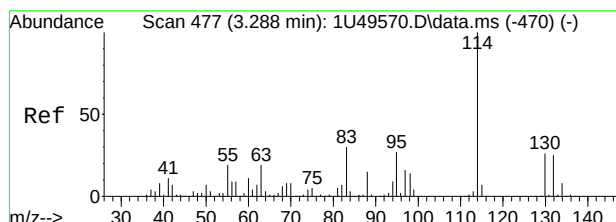
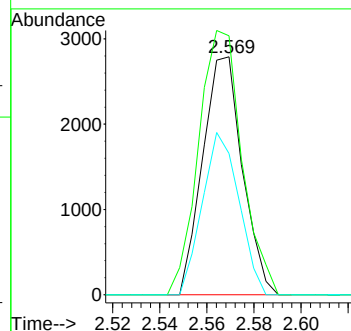
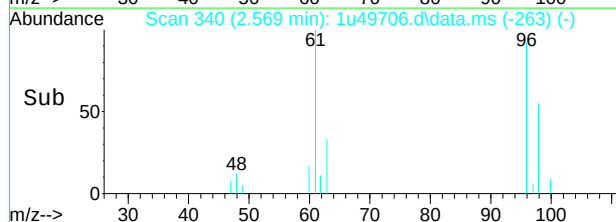
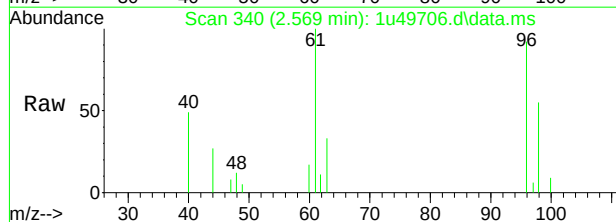
Quant Method : C:\MSDCHEM\1\METHODS\M1U2015.M  
Quant Results File: M1U2015.RES  
Quant Time: Nov 03 15:45:37 2022  
Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um  
QLast Update : Wed Nov 02 11:15:22 2022  
Response via : Initial Calibration





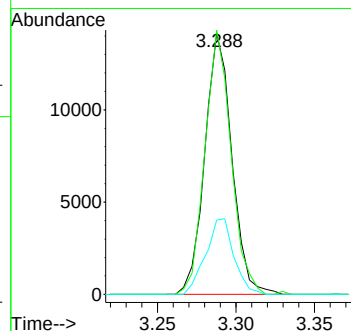
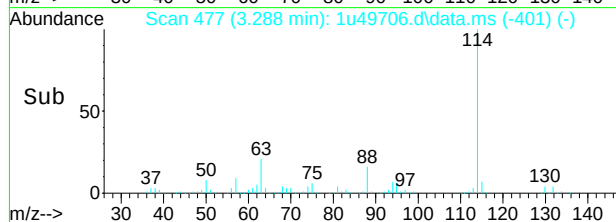
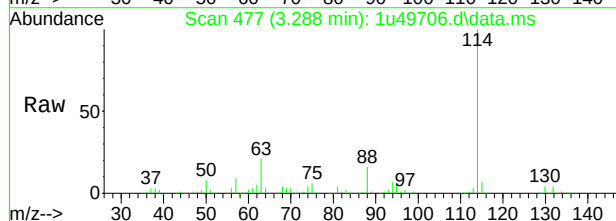
#36  
cis-1,2-dichloroethene  
Concen: 1.28 ug/L  
RT: 2.569 min Scan# 340  
Delta R.T. 0.005 min  
Lab File: 1u49706.d  
Acq: 2 Nov 2022 1:33 am

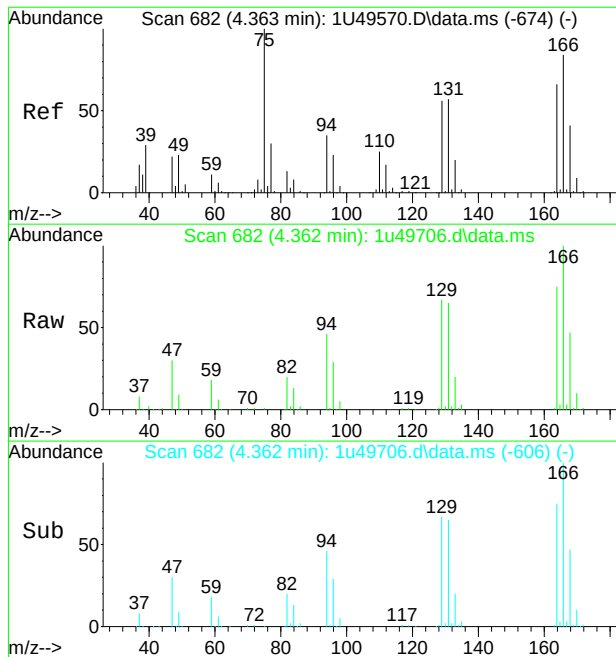
| Tgt Ion | 96  | 61    | 98   |
|---------|-----|-------|------|
| Ion     | 96  | 61    | 98   |
| Ratio   | 100 | 108.8 | 59.4 |
| Lower   |     | 81.9  | 34.2 |
| Upper   |     | 141.9 | 94.2 |



#60  
trichloroethene  
Concen: 5.98 ug/L  
RT: 3.288 min Scan# 477  
Delta R.T. -0.000 min  
Lab File: 1u49706.d  
Acq: 2 Nov 2022 1:33 am

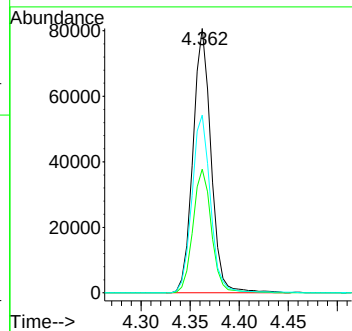
| Tgt Ion | 130 | 132   | 134  |
|---------|-----|-------|------|
| Ion     | 130 | 132   | 134  |
| Ratio   | 100 | 101.2 | 28.5 |
| Lower   |     | 68.6  | 2.1  |
| Upper   |     | 128.6 | 62.1 |





#78  
 tetrachloroethene  
 Concen: 35.34 ug/L  
 RT: 4.362 min Scan# 682  
 Delta R.T. -0.001 min  
 Lab File: 1u49706.d  
 Acq: 2 Nov 2022 1:33 am

| Tgt Ion | Ion | Ratio | Resp   | Lower | Upper |
|---------|-----|-------|--------|-------|-------|
| 166     | 166 | 100   | 103629 |       |       |
| 168     | 168 | 46.8  |        | 19.2  | 79.2  |
| 129     | 129 | 67.2  |        | 37.0  | 97.0  |



## Quantitation Report (QT Reviewed)

Data Path : R:\remote\voa-gcms\complete\2022\dayton 202211\11-03-2022\angieg\v2u2018\  
 Data File : 2u49701.d  
 Acq On : 2 Nov 2022 12:20 am  
 Operator : edwardd  
 Sample : JD54605-9  
 Misc : MS63572,V2U2018,5,,,,,1  
 ALS Vial : 64 Sample Multiplier: 1

Quant Time: Nov 03 16:17:25 2022

Quant Method : C:\MSDCHEM\1\METHODS\M2U2015.M

Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um

QLast Update : Wed Nov 02 12:34:58 2022

Response via : Initial Calibration

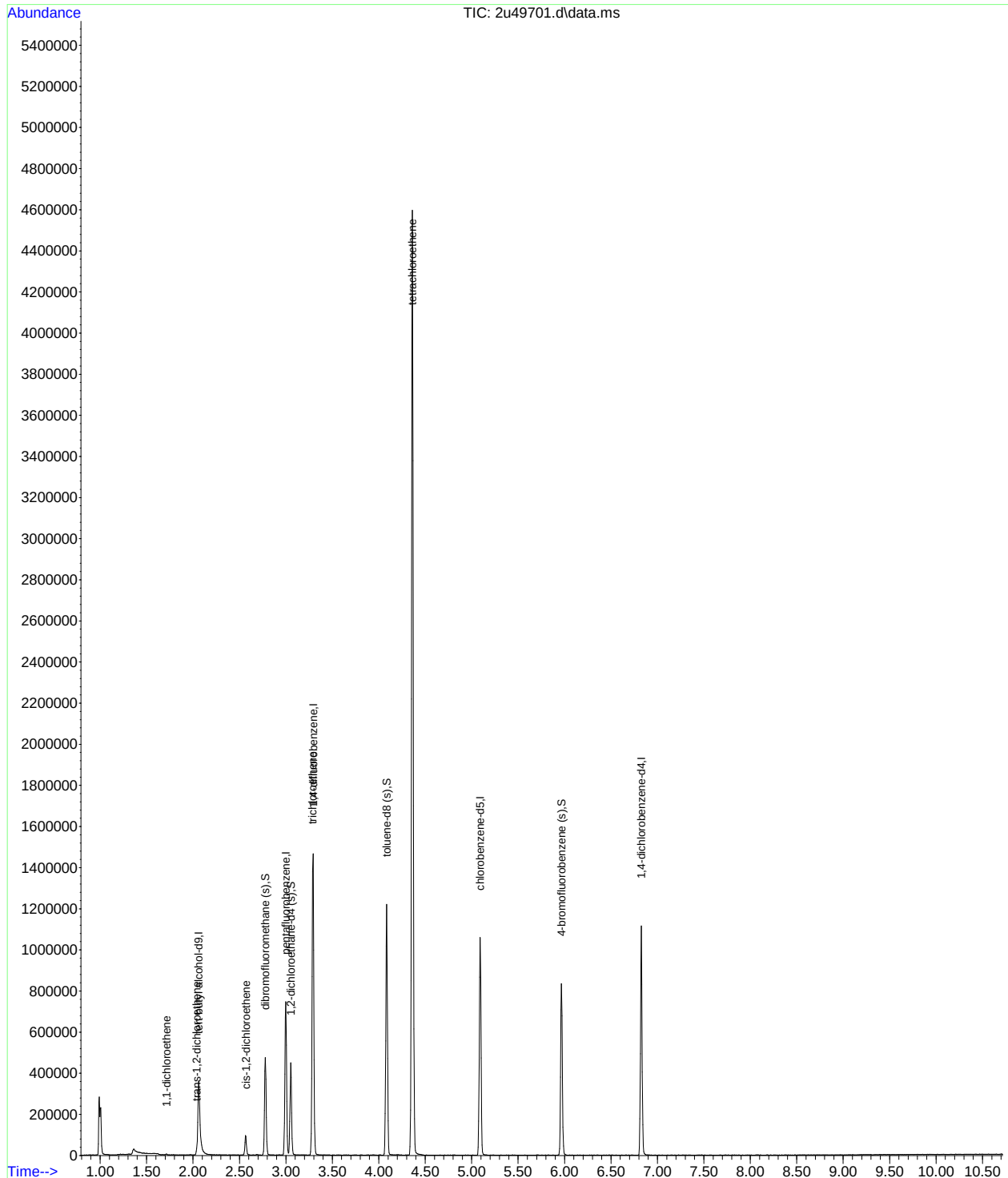
| Compound                      | R.T.           | QIon | Response   | Conc    | Units | Dev(Min) |
|-------------------------------|----------------|------|------------|---------|-------|----------|
| Internal Standards            |                |      |            |         |       |          |
| 1) tert butyl alcohol-d9      | 2.061          | 65   | 326220     | 500.00  | ug/L  | 0.00     |
| 5) pentafluorobenzene         | 2.999          | 168  | 331524     | 50.00   | ug/L  | 0.00     |
| 50) 1,4-difluorobenzene       | 3.293          | 114  | 453169     | 50.00   | ug/L  | 0.00     |
| 72) chlorobenzene-d5          | 5.091          | 117  | 422076     | 50.00   | ug/L  | 0.00     |
| 95) 1,4-dichlorobenzene-d4    | 6.827          | 152  | 210945     | 50.00   | ug/L  | 0.00     |
| System Monitoring Compounds   |                |      |            |         |       |          |
| 42) dibromofluoromethane (s)  | 2.779          | 113  | 163486     | 50.63   | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 75 - 127 |      | Recovery = | 101.26% |       |          |
| 51) 1,2-dichloroethane-d4 (s) | 3.052          | 65   | 197582     | 55.06   | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 75 - 130 |      | Recovery = | 110.12% |       |          |
| 73) toluene-d8 (s)            | 4.085          | 98   | 552661     | 53.10   | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 80 - 120 |      | Recovery = | 106.20% |       |          |
| 96) 4-bromofluorobenzene (s)  | 5.967          | 95   | 182754     | 48.56   | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 79 - 127 |      | Recovery = | 97.12%  |       |          |
| Target Compounds              |                |      |            |         |       |          |
| 17) 1,1-dichloroethene        | 1.715          | 61   | 1506       | 0.54    | ug/L  | 95       |
| 25) trans-1,2-dichloroethene  | 2.040          | 61   | 7686       | 2.27    | ug/L  | 95       |
| 36) cis-1,2-dichloroethene    | 2.569          | 96   | 25423      | 12.44   | ug/L  | 99       |
| 60) trichloroethene           | 3.288          | 130  | 136666     | 61.22   | ug/L  | 97       |
| 78) tetrachloroethene         | 4.363          | 166  | 904276     | 389.97  | ug/L  | 97       |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

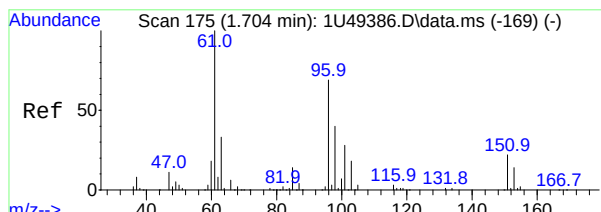
## Quantitation Report (QT Reviewed)

Data Path : R:\remote\voa-gcms\complete\2022\dayton 202211\11-03-2022\angieg\v2u2018\  
Data File : 2u49701.d  
Acq On : 2 Nov 2022 12:20 am  
Operator : edwardd  
Sample : JD54605-9  
Misc : MS63572,V2U2018,5,,,,,1  
ALS Vial : 64 Sample Multiplier: 1

Quant Time: Nov 03 16:17:25 2022  
Quant Method : C:\MSDCHEM\1\METHODS\M2U2015.M  
Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um  
QLast Update : Wed Nov 02 12:34:58 2022  
Response via : Initial Calibration

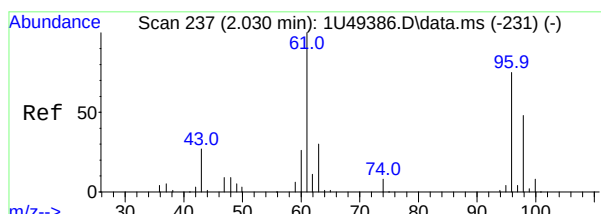
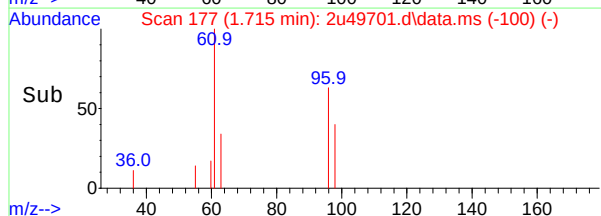
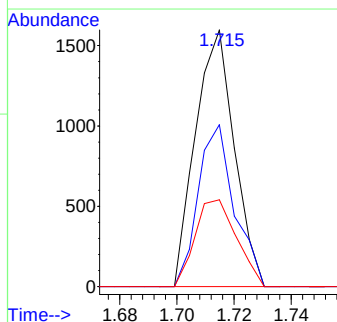
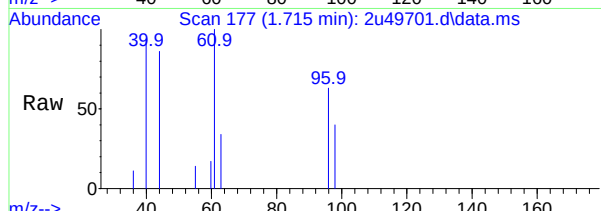






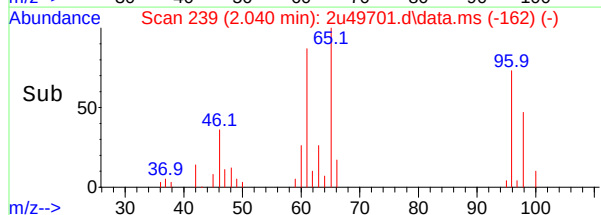
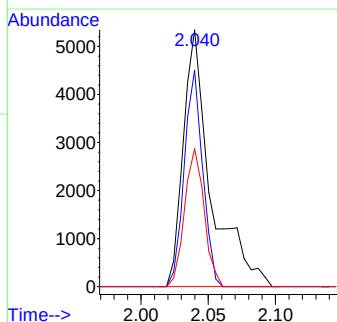
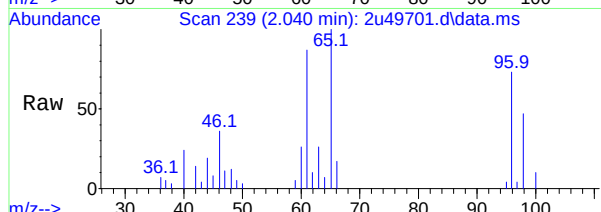
#17  
1,1-dichloroethene  
Concen: 0.54 ug/L  
RT: 1.715 min Scan# 177  
Delta R.T. 0.006 min  
Lab File: 2u49701.d  
Acq: 2 Nov 2022 12:20 am

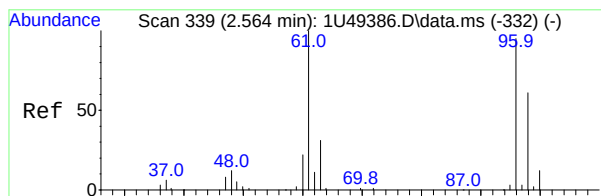
Tgt Ion: 61 Resp: 1506  
Ion Ratio Lower Upper  
61 100  
96 63.1 38.3 98.3  
63 33.8 3.4 63.4



#25  
trans-1,2-dichloroethene  
Concen: 2.27 ug/L  
RT: 2.040 min Scan# 239  
Delta R.T. 0.005 min  
Lab File: 2u49701.d  
Acq: 2 Nov 2022 12:20 am

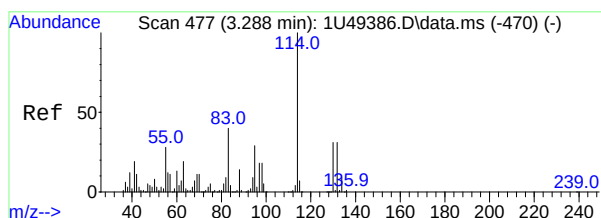
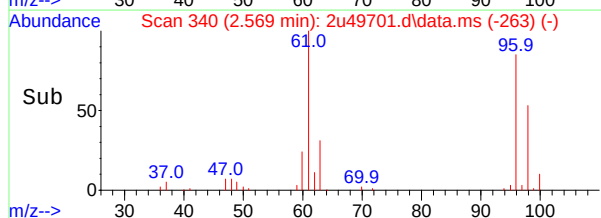
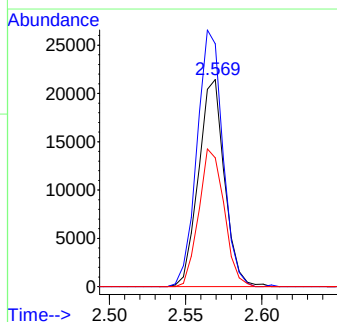
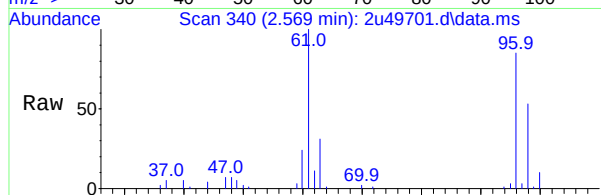
Tgt Ion: 61 Resp: 7686  
Ion Ratio Lower Upper  
61 100  
96 84.2 49.6 109.6  
98 53.8 21.0 81.0





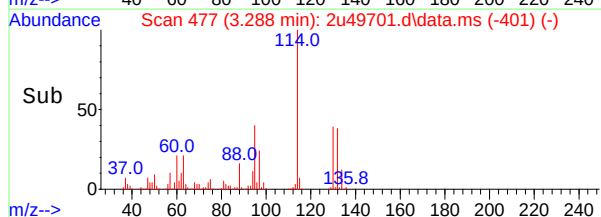
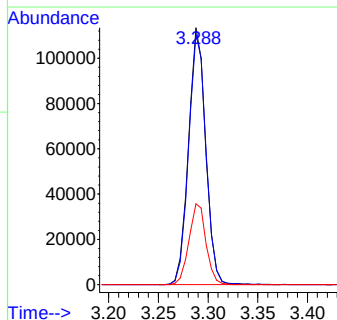
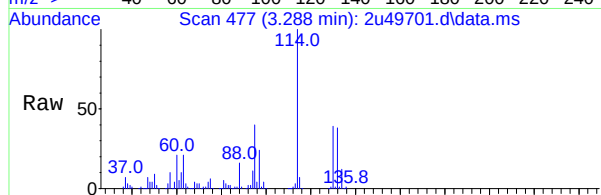
#36  
cis-1,2-dichloroethene  
Concen: 12.44 ug/L  
RT: 2.569 min Scan# 340  
Delta R.T. 0.005 min  
Lab File: 2u49701.d  
Acq: 2 Nov 2022 12:20 am

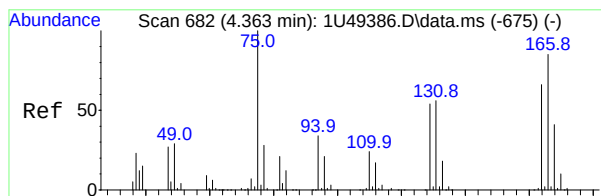
Tgt Ion: 96 Resp: 25423  
Ion Ratio Lower Upper  
96 100  
61 117.2 88.2 148.2  
98 62.2 33.7 93.7



#60  
trichloroethene  
Concen: 61.22 ug/L  
RT: 3.288 min Scan# 477  
Delta R.T. -0.000 min  
Lab File: 2u49701.d  
Acq: 2 Nov 2022 12:20 am

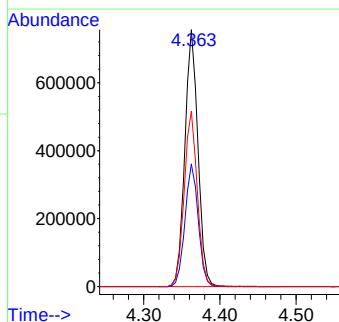
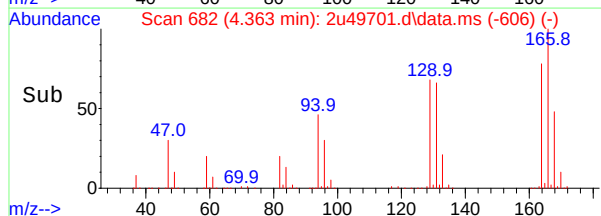
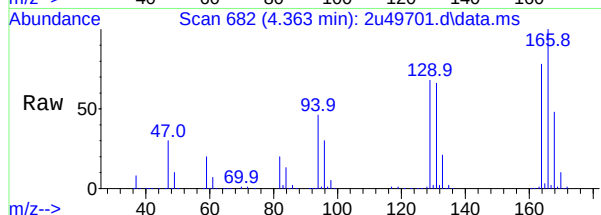
Tgt Ion:130 Resp: 136666  
Ion Ratio Lower Upper  
130 100  
132 97.5 64.8 124.8  
134 31.4 0.0 59.7





#78  
tetrachloroethene  
Concen: 389.97 ug/L  
RT: 4.363 min Scan# 682  
Delta R.T. 0.001 min  
Lab File: 2u49701.d  
Acq: 2 Nov 2022 12:20 am

Tgt Ion:166 Resp: 904276  
Ion Ratio Lower Upper  
166 100  
168 47.7 15.6 75.6  
129 68.3 36.1 96.1



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\Angieg\November 2022\nov. 3, 2022\v2u2018\  
 Data File : 2u49697.d  
 Acq On : 1 Nov 2022 11:22 pm  
 Operator : edwardd  
 Sample : JD54605-10 Inst : GCMS-U  
 Misc : MS63572,V2U2018,5,,,,,1  
 ALS Vial : 60 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2U2015.M  
 Quant Results File: M2U2015.RES  
 Quant Time: Nov 03 18:09:30 2022  
 Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um  
 QLast Update : Wed Nov 02 12:34:58 2022  
 Response via : Initial Calibration

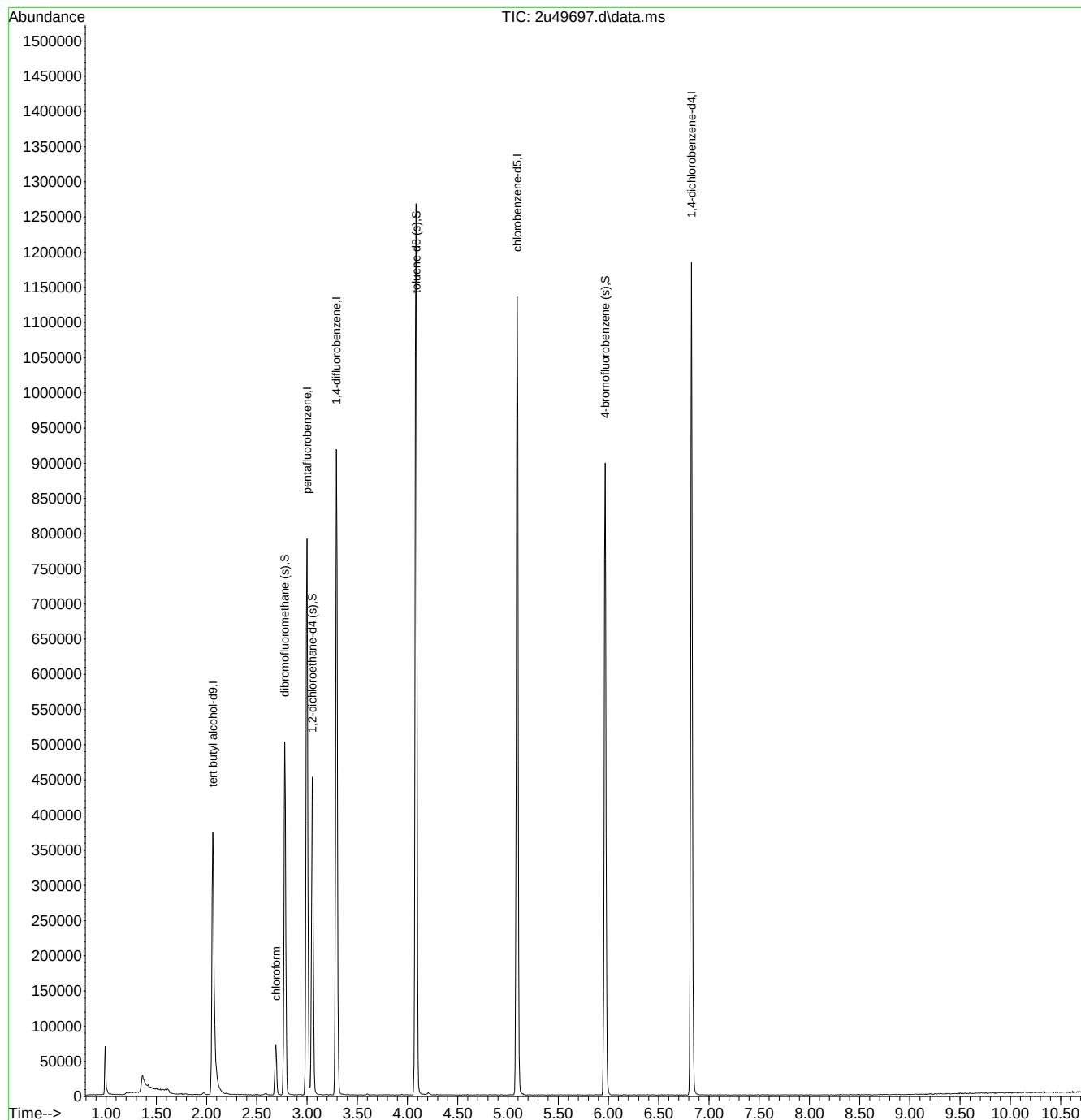
| Compound                      | R.T.   | QIon  | Response | Conc     | Units | Dev(Min)     |
|-------------------------------|--------|-------|----------|----------|-------|--------------|
| Internal Standards            |        |       |          |          |       |              |
| 1) tert butyl alcohol-d9      | 2.061  | 65    | 338144   | 500.00   | ug/L  | 0.00         |
| 5) pentafluorobenzene         | 2.999  | 168   | 348271   | 50.00    | ug/L  | 0.00         |
| 50) 1,4-difluorobenzene       | 3.293  | 114   | 474046   | 50.00    | ug/L  | 0.00         |
| 72) chlorobenzene-d5          | 5.091  | 117   | 456327   | 50.00    | ug/L  | 0.00         |
| 95) 1,4-dichlorobenzene-d4    | 6.827  | 152   | 224782   | 50.00    | ug/L  | 0.00         |
| System Monitoring Compounds   |        |       |          |          |       |              |
| 42) dibromofluoromethane (s)  | 2.779  | 113   | 171616   | 50.59    | ug/L  | 0.00         |
| Spiked Amount                 | 50.000 | Range | 75 - 127 | Recovery | =     | 101.18%      |
| 51) 1,2-dichloroethane-d4 (s) | 3.052  | 65    | 203102   | 54.11    | ug/L  | 0.00         |
| Spiked Amount                 | 50.000 | Range | 75 - 130 | Recovery | =     | 108.22%      |
| 73) toluene-d8 (s)            | 4.085  | 98    | 576721   | 51.25    | ug/L  | 0.00         |
| Spiked Amount                 | 50.000 | Range | 80 - 120 | Recovery | =     | 102.50%      |
| 96) 4-bromofluorobenzene (s)  | 5.967  | 95    | 196186   | 48.92    | ug/L  | 0.00         |
| Spiked Amount                 | 50.000 | Range | 79 - 127 | Recovery | =     | 97.84%       |
| Target Compounds              |        |       |          |          |       |              |
| 41) chloroform                | 2.690  | 47    | 8698     | 8.50     | ug/L  | Qvalue<br>94 |

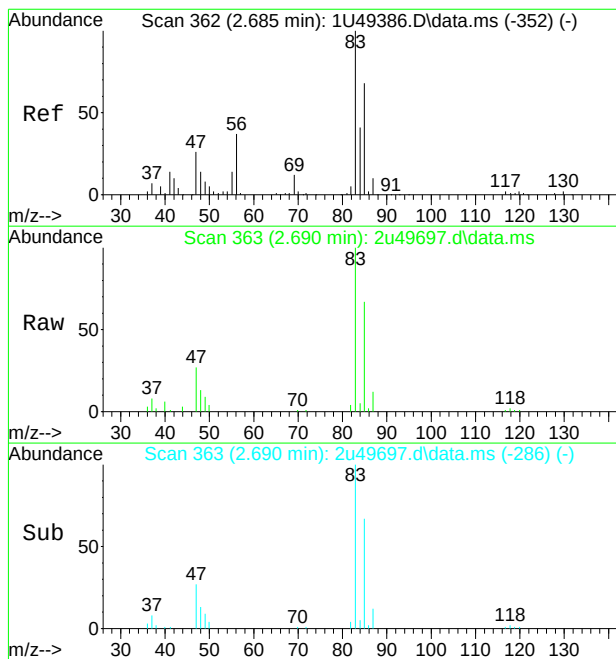
(#) = qualifier out of range (m) = manual integration (+) = signals summed

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\Angieg\November 2022\nov. 3, 2022\v2u2018\  
Data File : 2u49697.d  
Acq On : 1 Nov 2022 11:22 pm  
Operator : edwardd  
Sample : JD54605-10 Inst : GCMS-U  
Misc : MS63572,V2U2018,5,,,,,1  
ALS Vial : 60 Sample Multiplier: 1

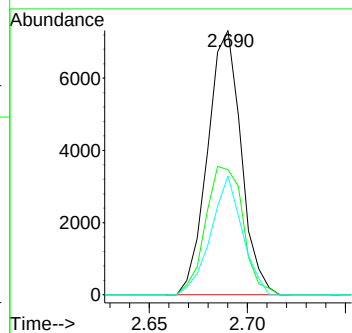
Quant Method : C:\MSDCHEM\1\METHODS\M2U2015.M  
Quant Results File: M2U2015.RES  
Quant Time: Nov 03 18:09:30 2022  
Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um  
QLast Update : Wed Nov 02 12:34:58 2022  
Response via : Initial Calibration





#41  
chloroform  
Concen: 8.50 ug/L  
RT: 2.690 min Scan# 363  
Delta R.T. 0.005 min  
Lab File: 2u49697.d  
Acq: 1 Nov 2022 11:22 pm

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 47    | Resp: | 8698  |
| Ion      | Ratio | Lower | Upper |
| 47       | 100   |       |       |
| 48       | 47.3  | 23.3  | 83.3  |
| 87       | 44.9  | 17.6  | 77.6  |



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\renee\5.November\11-03-22\v1k38\  
Data File : 1k01237.d  
Acq On : 2 Nov 2022 12:41 pm  
Operator : taylors  
Sample : jd54605-11 Inst : GCMS K  
Misc : MS63572,V1K0038,5,,,,,1  
ALS Vial : 16 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\M1K11.M  
Quant Results File: M1K11.RES  
Quant Time: Nov 03 00:45:47 2022  
Quant Title : SW-846 Method 8260D, column Rtx-VMS 20m x 0.18 id x 1.0 um  
QLast Update : Mon Oct 17 15:20:12 2022  
Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units | Dev(Min)    |
|-------------------------------|--------|-------|----------|----------|-------|-------------|
| Internal Standards            |        |       |          |          |       |             |
| 1) tert butyl alcohol-d9      | 2.247  | 65    | 411806   | 500.00   | ug/L  | 0.00        |
| 5) pentafluorobenzene         | 3.212  | 168   | 292329   | 50.00    | ug/L  | 0.00        |
| 50) 1,4-difluorobenzene       | 3.511  | 114   | 483059   | 50.00    | ug/L  | 0.00        |
| 72) chlorobenzene-d5          | 5.325  | 117   | 413582   | 50.00    | ug/L  | 0.01        |
| 95) 1,4-dichlorobenzene-d4    | 7.045  | 152   | 172685   | 50.00    | ug/L  | 0.01        |
| System Monitoring Compounds   |        |       |          |          |       |             |
| 42) dibromofluoromethane (s)  | 2.992  | 113   | 137173   | 50.60    | ug/L  | 0.00        |
| Spiked Amount                 | 50.000 | Range | 75 - 127 | Recovery | =     | 101.20%     |
| 51) 1,2-dichloroethane-d4 (s) | 3.270  | 65    | 216011   | 50.93    | ug/L  | 0.00        |
| Spiked Amount                 | 50.000 | Range | 75 - 130 | Recovery | =     | 101.86%     |
| 73) toluene-d8 (s)            | 4.308  | 98    | 633143   | 52.69    | ug/L  | 0.00        |
| Spiked Amount                 | 50.000 | Range | 80 - 120 | Recovery | =     | 105.38%     |
| 96) 4-bromofluorobenzene (s)  | 6.195  | 95    | 223062   | 56.61    | ug/L  | 0.00        |
| Spiked Amount                 | 50.000 | Range | 79 - 127 | Recovery | =     | 113.22%     |
| Target Compounds              |        |       |          |          |       |             |
| 11) bromomethane              | 1.524  | 96    | 1790     | 1.49     | ug/L  | Qvalue # 79 |
| 41) chloroform                | 2.898  | 47    | 16240    | 8.28     | ug/L  | 95          |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.1.13  
7

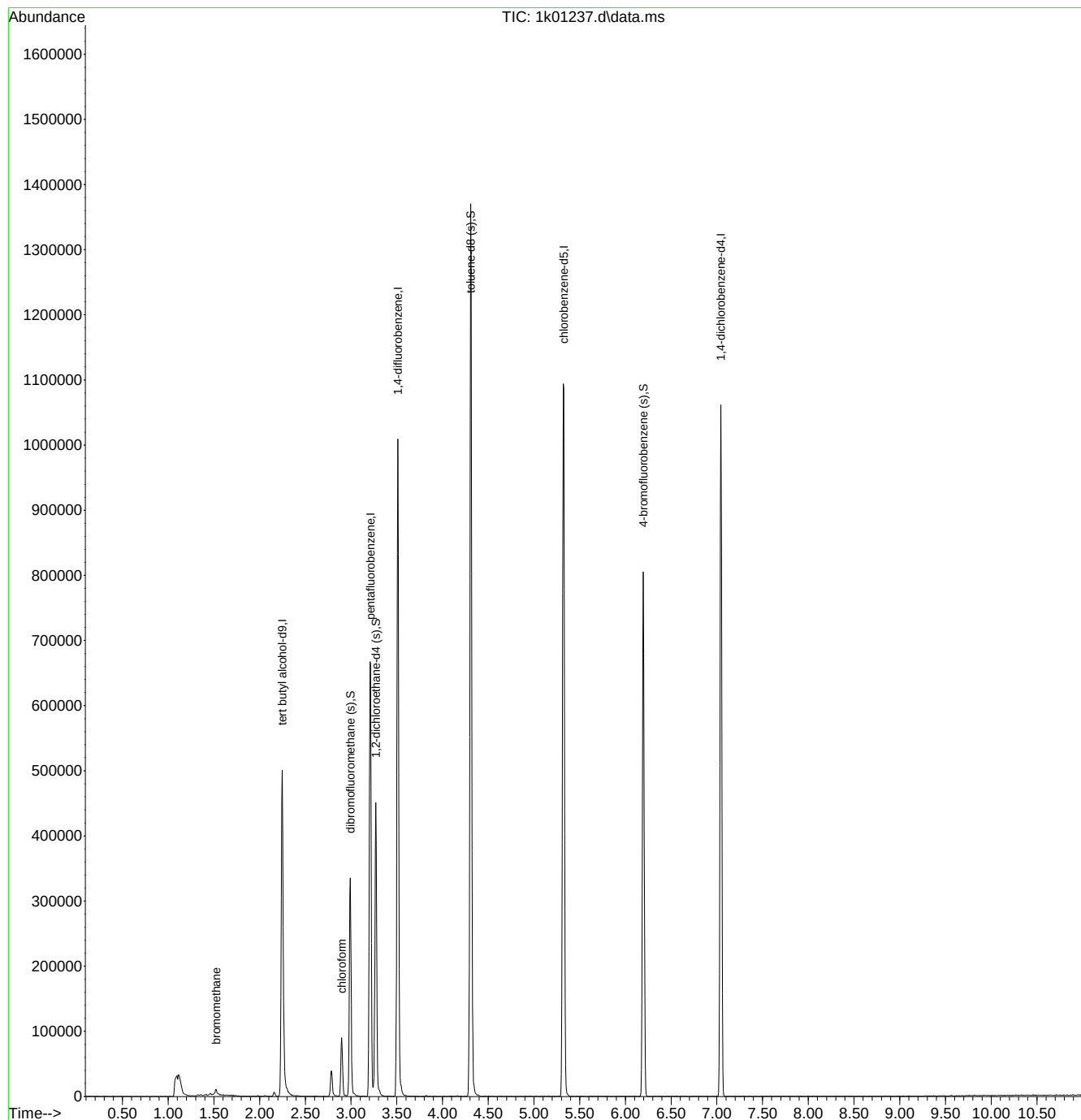


## Quantitation Report (QT Reviewed)

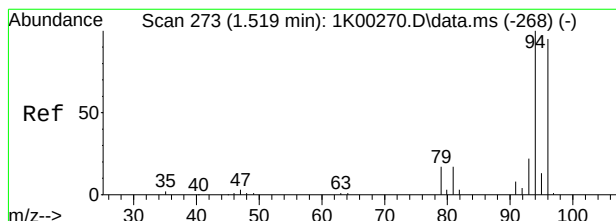
Data Path : C:\msdchem\1\data\renee\5.November\11-03-22\v1k38\  
Data File : 1k01237.d  
Acq On : 2 Nov 2022 12:41 pm  
Operator : taylor  
Sample : jd54605-11  
Misc : MS63572,V1K0038,5,,,,,1  
ALS Vial : 16 Sample Multiplier: 1

Inst : GCMS K

Quant Method : C:\msdchem\1\methods\M1K11.M  
Quant Results File: M1K11.RES  
Quant Time: Nov 03 00:45:47 2022  
Quant Title : SW-846 Method 8260D, column Rtx-VMS 20m x 0.18 id x 1.0 um  
QLast Update : Mon Oct 17 15:20:12 2022  
Response via : Initial Calibration

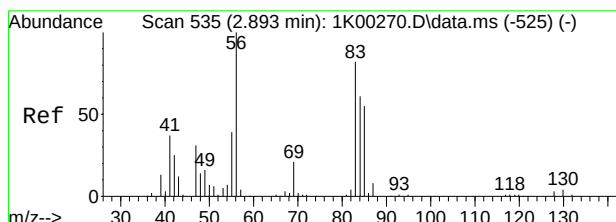
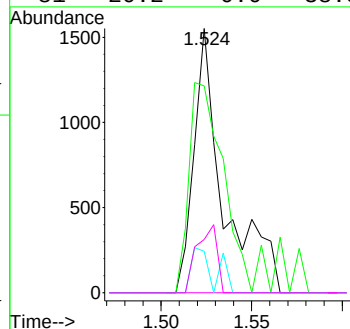
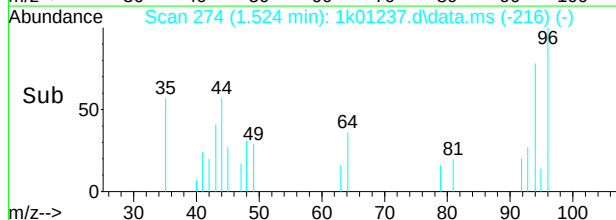
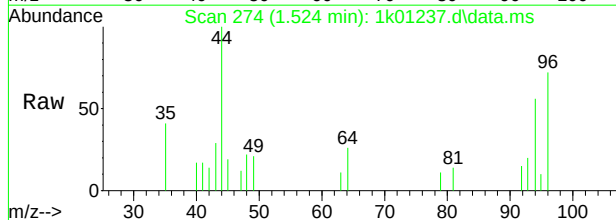






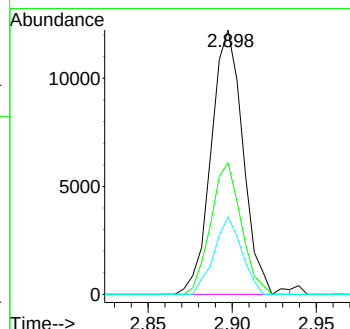
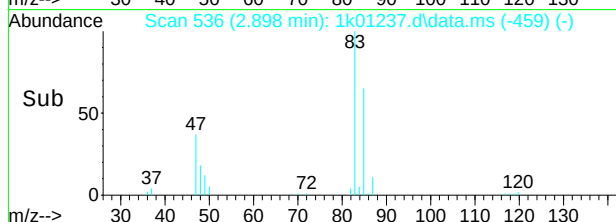
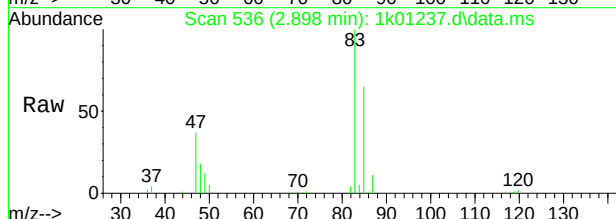
#11  
bromomethane  
Concen: 1.49 ug/L  
RT: 1.524 min Scan# 274  
Delta R.T. 0.005 min  
Lab File: 1k01237.d  
Acq: 2 Nov 2022 12:41 pm

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 94      | 78.2  | 74.9  | 134.9 |
| 79      | 15.6  | 18.3  | 18.3# |
| 81      | 20.2  | 0.0   | 38.3  |



#41  
chloroform  
Concen: 8.28 ug/L  
RT: 2.898 min Scan# 536  
Delta R.T. 0.005 min  
Lab File: 1k01237.d  
Acq: 2 Nov 2022 12:41 pm

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 47      | 100   |       |       |
| 48      | 49.8  | 17.0  | 77.0  |
| 87      | 29.3  | 0.0   | 56.4  |



## Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\data\Angieg\November 2022\nov. 3, 2022\v2u2018\  
 Data File : 2u49695.d  
 Acq On : 1 Nov 2022 10:53 pm  
 Operator : edwardd  
 Sample : mb Inst : GCMS-U  
 Misc : MS46075,V2U2018,5,,,,,1  
 ALS Vial : 58 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2U2015.M  
 Quant Results File: M2U2015.RES  
 Quant Time: Nov 03 18:06:37 2022  
 Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um  
 QLast Update : Wed Nov 02 12:34:58 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|-------|----------|
| Internal Standards            |        |       |          |          |       |          |
| 1) tert butyl alcohol-d9      | 2.056  | 65    | 358059   | 500.00   | ug/L  | 0.00     |
| 5) pentafluorobenzene         | 2.994  | 168   | 359067   | 50.00    | ug/L  | 0.00     |
| 50) 1,4-difluorobenzene       | 3.293  | 114   | 488606   | 50.00    | ug/L  | 0.00     |
| 72) chlorobenzene-d5          | 5.091  | 117   | 472739   | 50.00    | ug/L  | 0.00     |
| 95) 1,4-dichlorobenzene-d4    | 6.827  | 152   | 232751   | 50.00    | ug/L  | 0.00     |
| System Monitoring Compounds   |        |       |          |          |       |          |
| 42) dibromofluoromethane (s)  | 2.774  | 113   | 178997   | 51.18    | ug/L  | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 127 | Recovery | =     | 102.36%  |
| 51) 1,2-dichloroethane-d4 (s) | 3.052  | 65    | 210975   | 54.53    | ug/L  | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 130 | Recovery | =     | 109.06%  |
| 73) toluene-d8 (s)            | 4.085  | 98    | 604366   | 51.85    | ug/L  | 0.00     |
| Spiked Amount                 | 50.000 | Range | 80 - 120 | Recovery | =     | 103.70%  |
| 96) 4-bromofluorobenzene (s)  | 5.967  | 95    | 204641   | 49.28    | ug/L  | 0.00     |
| Spiked Amount                 | 50.000 | Range | 79 - 127 | Recovery | =     | 98.56%   |

| Target Compounds | Qvalue |
|------------------|--------|
|------------------|--------|

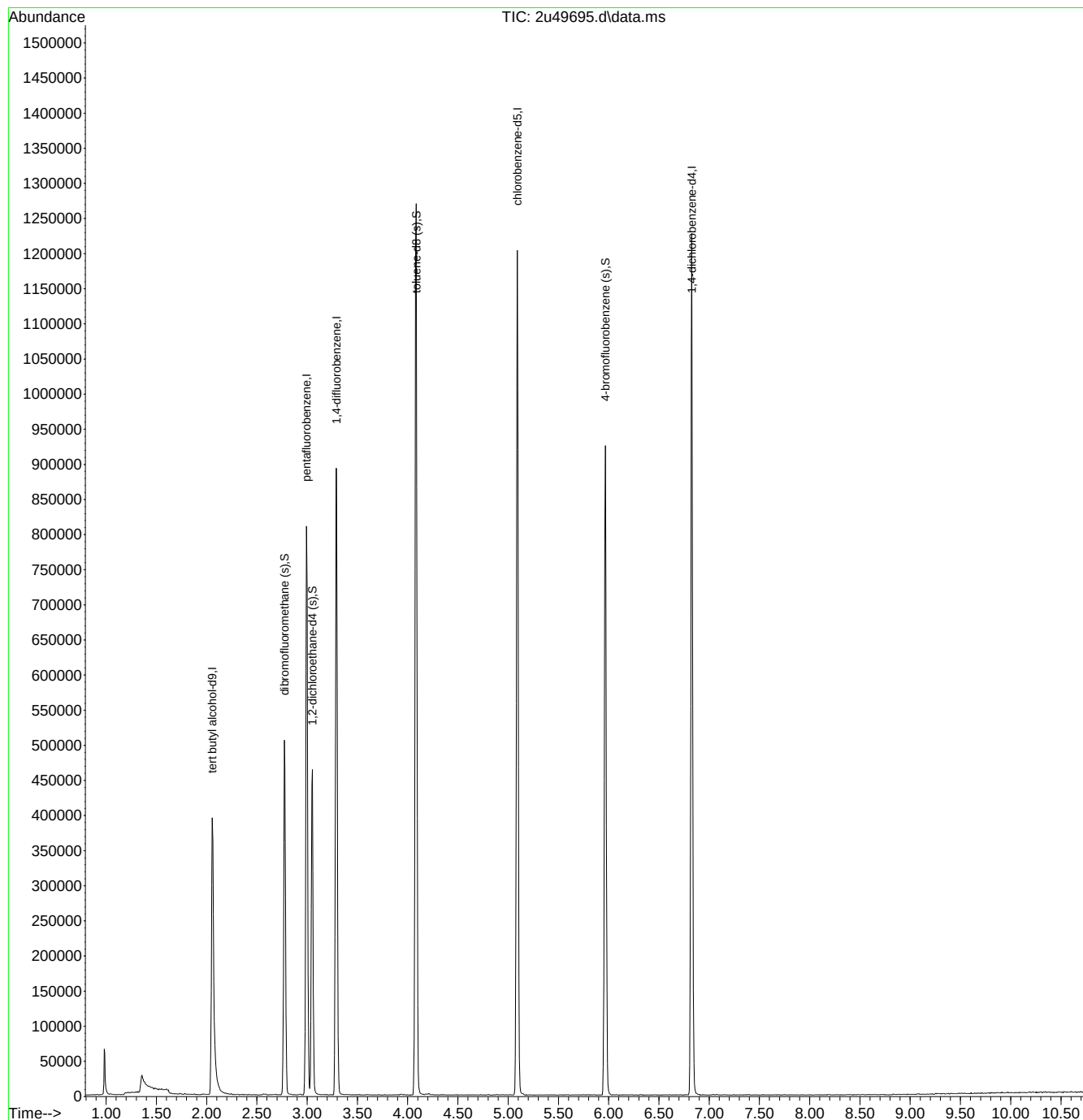
(#) = qualifier out of range (m) = manual integration (+) = signals summed

## Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\data\Angieg\November 2022\nov. 3, 2022\v2u2018\  
Data File : 2u49695.d  
Acq On : 1 Nov 2022 10:53 pm  
Operator : edwardd  
Sample : mb  
Misc : MS46075,V2U2018,5,,,,,1  
ALS Vial : 58 Sample Multiplier: 1

Inst : GCMS-U

Quant Method : C:\MSDCHEM\1\METHODS\M2U2015.M  
Quant Results File: M2U2015.RES  
Quant Time: Nov 03 18:06:37 2022  
Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um  
QLast Update : Wed Nov 02 12:34:58 2022  
Response via : Initial Calibration



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\Angieg\November 2022\nov. 3, 2022\v1u2018\  
Data File : 1u49696.d  
Acq On : 1 Nov 2022 11:07 pm  
Operator : edwardd  
Sample : mb Inst : GCMS-U  
Misc : MS46075,V1U2018,5,,,,,1  
ALS Vial : 59 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1U2015.M  
Quant Results File: M1U2015.RES  
Quant Time: Nov 03 15:26:14 2022  
Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um  
QLast Update : Wed Nov 02 11:15:22 2022  
Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units | Dev(Min)     |
|-------------------------------|--------|-------|----------|----------|-------|--------------|
| Internal Standards            |        |       |          |          |       |              |
| 1) tert butyl alcohol-d9      | 2.056  | 65    | 322138   | 500.00   | ug/L  | 0.00         |
| 5) pentafluorobenzene         | 2.994  | 168   | 394860   | 50.00    | ug/L  | 0.00         |
| 50) 1,4-difluorobenzene       | 3.293  | 114   | 533667   | 50.00    | ug/L  | 0.00         |
| 72) chlorobenzene-d5          | 5.091  | 117   | 504104   | 50.00    | ug/L  | 0.00         |
| 95) 1,4-dichlorobenzene-d4    | 6.827  | 152   | 230647   | 50.00    | ug/L  | 0.00         |
| System Monitoring Compounds   |        |       |          |          |       |              |
| 42) dibromofluoromethane (s)  | 2.774  | 113   | 195898   | 51.13    | ug/L  | 0.00         |
| Spiked Amount                 | 50.000 | Range | 75 - 127 | Recovery | =     | 102.26%      |
| 51) 1,2-dichloroethane-d4 (s) | 3.052  | 65    | 228236   | 54.16    | ug/L  | 0.00         |
| Spiked Amount                 | 50.000 | Range | 75 - 130 | Recovery | =     | 108.32%      |
| 73) toluene-d8 (s)            | 4.085  | 98    | 652647   | 51.33    | ug/L  | 0.00         |
| Spiked Amount                 | 50.000 | Range | 80 - 120 | Recovery | =     | 102.66%      |
| 96) 4-bromofluorobenzene (s)  | 5.967  | 95    | 209838   | 48.63    | ug/L  | 0.00         |
| Spiked Amount                 | 50.000 | Range | 79 - 127 | Recovery | =     | 97.26%       |
| Target Compounds              |        |       |          |          |       |              |
| 18) acetone                   | 1.977  | 58    | 121      | 0.42     | ug/L  | Qvalue<br>93 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\Angieg\November 2022\nov. 3, 2022\v1u2018\  
Data File : 1u49696.d  
Acq On : 1 Nov 2022 11:07 pm  
Operator : edwardd  
Sample : mb  
Misc : MS46075,V1U2018,5,,,,,1  
ALS Vial : 59 Sample Multiplier: 1

Inst : GCMS-U

Quant Method : C:\MSDCHEM\1\METHODS\M1U2015.M

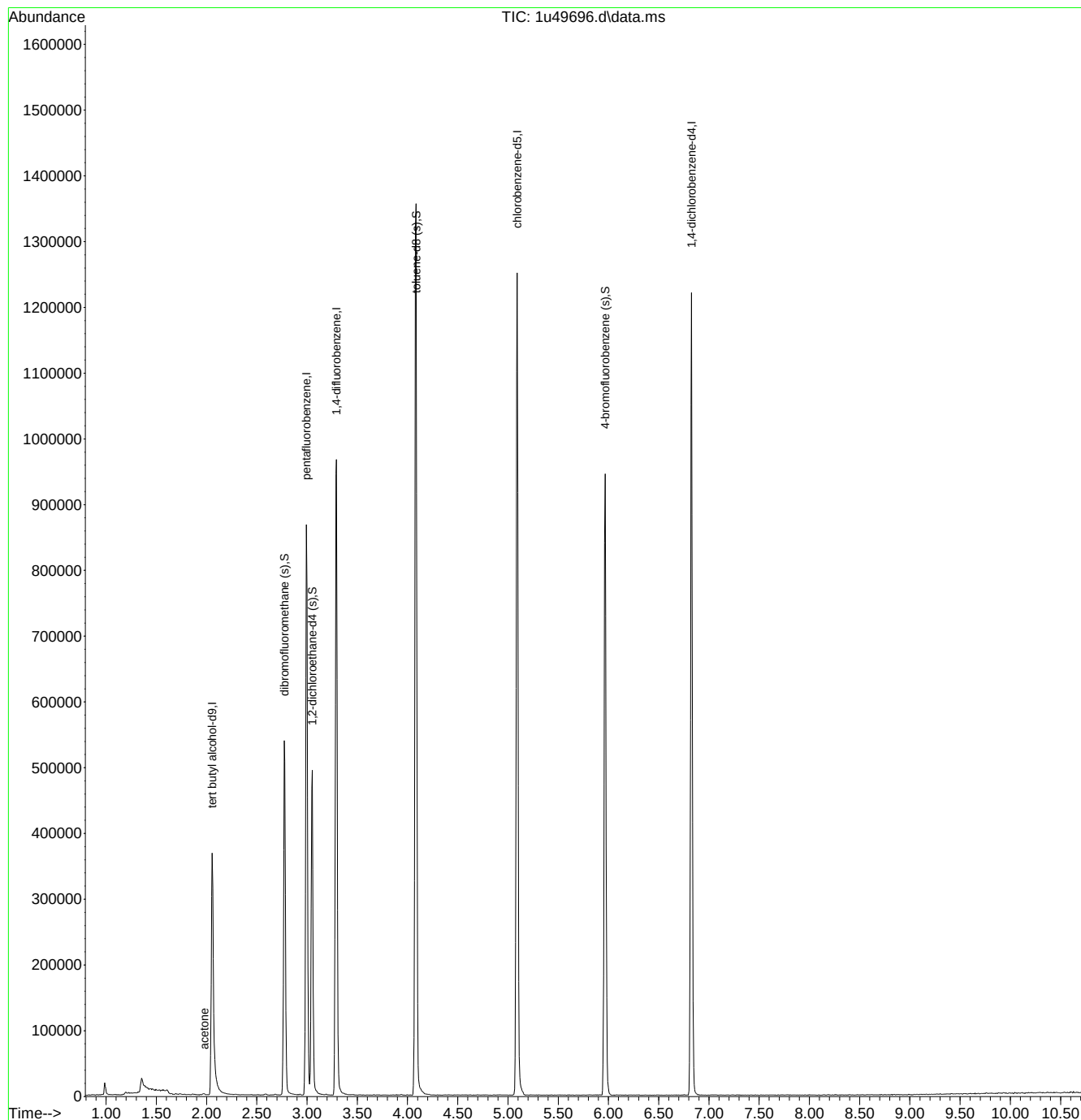
Quant Results File: M1U2015.RES

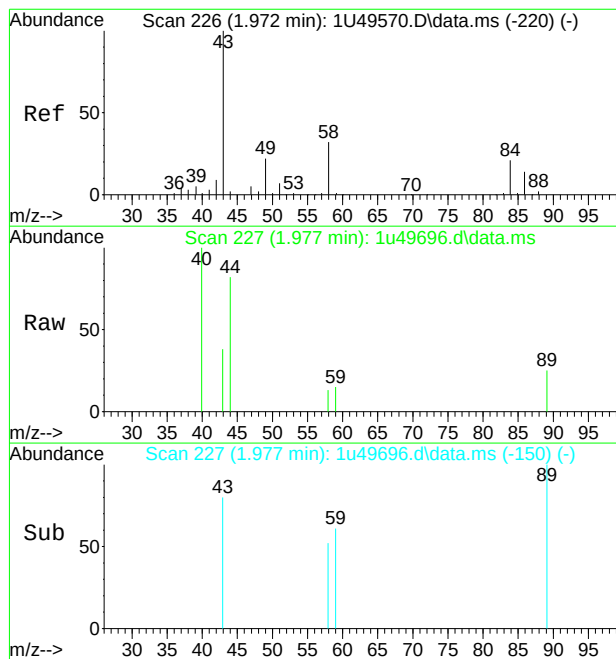
Quant Time: Nov 03 15:26:14 2022

Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um

QLast Update : Wed Nov 02 11:15:22 2022

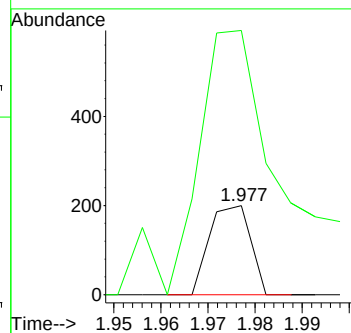
Response via : Initial Calibration





#18  
acetone  
Concen: 0.42 ug/L  
RT: 1.977 min Scan# 227  
Delta R.T. 0.005 min  
Lab File: 1u49696.d  
Acq: 1 Nov 2022 11:07 pm

Tgt Ion: 58 Resp: 121  
Ion Ratio Lower Upper  
58 100  
43 296.5 281.4 341.4



## Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\data\renee\5.November\11-03-22\v1k38\  
Data File : 1k01232.d  
Acq On : 2 Nov 2022 11:13 am  
Operator : taylors  
Sample : mb Inst : GCMS K  
Misc : MS63458,V1K0038,5,,,,,1  
ALS Vial : 11 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\M1K11.M  
Quant Results File: M1K11.RES  
Quant Time: Nov 03 00:31:43 2022  
Quant Title : SW-846 Method 8260D, column Rtx-VMS 20m x 0.18 id x 1.0 um  
QLast Update : Mon Oct 17 15:20:12 2022  
Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units | Dev(Min)    |
|-------------------------------|--------|-------|----------|----------|-------|-------------|
| Internal Standards            |        |       |          |          |       |             |
| 1) tert butyl alcohol-d9      | 2.253  | 65    | 436315   | 500.00   | ug/L  | 0.00        |
| 5) pentafluorobenzene         | 3.212  | 168   | 282047   | 50.00    | ug/L  | 0.00        |
| 50) 1,4-difluorobenzene       | 3.516  | 114   | 473568   | 50.00    | ug/L  | 0.00        |
| 72) chlorobenzene-d5          | 5.325  | 117   | 414758   | 50.00    | ug/L  | 0.00        |
| 95) 1,4-dichlorobenzene-d4    | 7.045  | 152   | 172381   | 50.00    | ug/L  | 0.00        |
| System Monitoring Compounds   |        |       |          |          |       |             |
| 42) dibromofluoromethane (s)  | 2.992  | 113   | 135247   | 51.71    | ug/L  | 0.00        |
| Spiked Amount                 | 50.000 | Range | 75 - 127 | Recovery | =     | 103.42%     |
| 51) 1,2-dichloroethane-d4 (s) | 3.275  | 65    | 221831   | 53.35    | ug/L  | 0.00        |
| Spiked Amount                 | 50.000 | Range | 75 - 130 | Recovery | =     | 106.70%     |
| 73) toluene-d8 (s)            | 4.313  | 98    | 630478   | 52.32    | ug/L  | 0.00        |
| Spiked Amount                 | 50.000 | Range | 80 - 120 | Recovery | =     | 104.64%     |
| 96) 4-bromofluorobenzene (s)  | 6.195  | 95    | 219508   | 55.80    | ug/L  | 0.00        |
| Spiked Amount                 | 50.000 | Range | 79 - 127 | Recovery | =     | 111.60%     |
| Target Compounds              |        |       |          |          |       |             |
| 11) bromomethane              | 1.529  | 96    | 2510     | 2.17     | ug/L  | Qvalue # 96 |

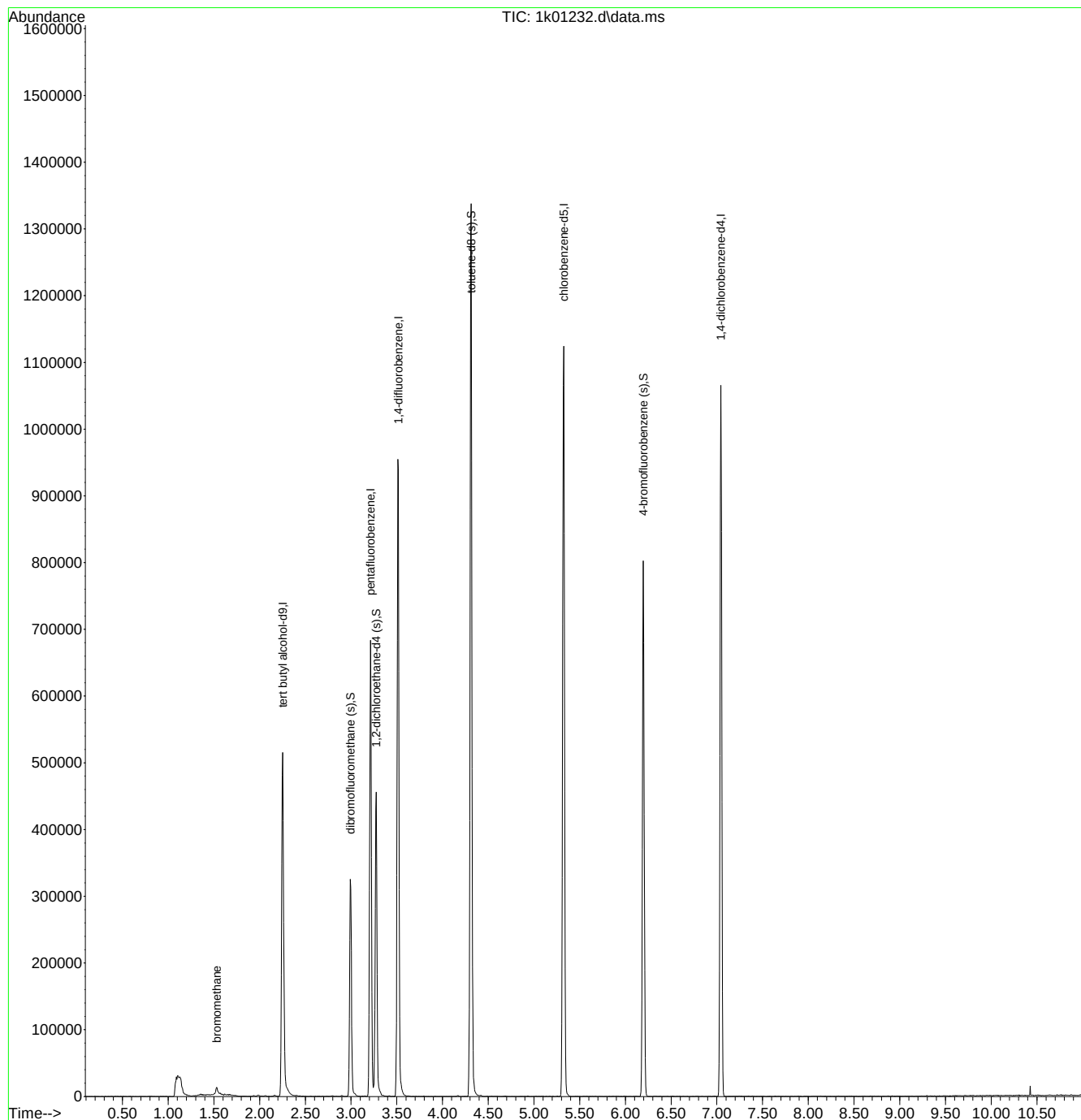
(#) = qualifier out of range (m) = manual integration (+) = signals summed

## Quantitation Report (QT/LSC Reviewed)

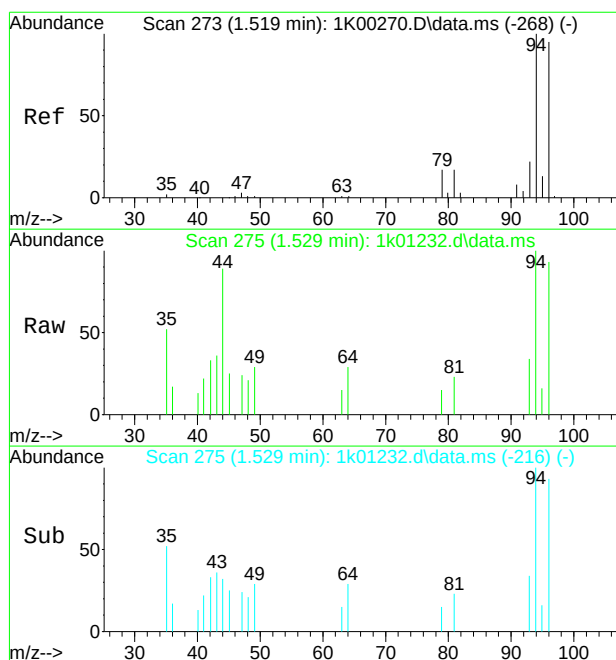
Data Path : C:\msdchem\1\data\renee\5.November\11-03-22\v1k38\  
Data File : 1k01232.d  
Acq On : 2 Nov 2022 11:13 am  
Operator : taylors  
Sample : mb  
Misc : MS63458,V1K0038,5,,,,,1  
ALS Vial : 11 Sample Multiplier: 1

Inst : GCMS K

Quant Method : C:\msdchem\1\methods\M1K11.M  
Quant Results File: M1K11.RES  
Quant Time: Nov 03 00:31:43 2022  
Quant Title : SW-846 Method 8260D, column Rtx-VMS 20m x 0.18 id x 1.0 um  
QLast Update : Mon Oct 17 15:20:12 2022  
Response via : Initial Calibration

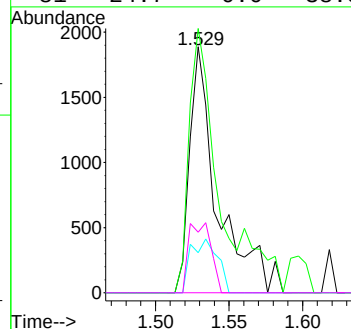






#11  
bromomethane  
Concen: 2.17 ug/L  
RT: 1.529 min Scan# 275  
Delta R.T. 0.010 min  
Lab File: 1k01232.d  
Acq: 2 Nov 2022 11:13 am

| Tgt Ion | Ion | Ratio | Resp | Lower | Upper |
|---------|-----|-------|------|-------|-------|
| 96      | 96  | 100   | 2510 |       |       |
| 94      | 94  | 107.5 |      | 74.9  | 134.9 |
| 79      | 79  | 16.3  |      | 18.3  | 18.3# |
| 81      | 81  | 24.7  |      | 0.0   | 38.3  |



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\Angieg\November 2022\nov. 3, 2022\v1u2018\  
 Data File : 1u49692.d  
 Acq On : 1 Nov 2022 10:09 pm  
 Operator : edwardd  
 Sample : bs  
 Misc : MS46075,V1U2018,5,,,,1  
 ALS Vial : 55 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1U2015.M  
 Quant Results File: M1U2015.RES  
 Quant Time: Nov 02 23:22:29 2022  
 Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um  
 QLast Update : Wed Nov 02 11:15:22 2022  
 Response via : Initial Calibration

| Compound                      | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|---------|--------|----------|
| Internal Standards            |                |      |            |         |        |          |
| 1) tert butyl alcohol-d9      | 2.061          | 65   | 299662     | 500.00  | ug/L   | 0.00     |
| 5) pentafluorobenzene         | 2.999          | 168  | 464130     | 50.00   | ug/L   | 0.00     |
| 50) 1,4-difluorobenzene       | 3.293          | 114  | 603473     | 50.00   | ug/L   | 0.00     |
| 72) chlorobenzene-d5          | 5.091          | 117  | 583371     | 50.00   | ug/L   | 0.00     |
| 95) 1,4-dichlorobenzene-d4    | 6.827          | 152  | 275734     | 50.00   | ug/L   | 0.00     |
| System Monitoring Compounds   |                |      |            |         |        |          |
| 42) dibromofluoromethane (s)  | 2.779          | 113  | 204961     | 45.51   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 127 |      | Recovery = | 91.02%  |        |          |
| 51) 1,2-dichloroethane-d4 (s) | 3.052          | 65   | 251002     | 52.67   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 130 |      | Recovery = | 105.34% |        |          |
| 73) toluene-d8 (s)            | 4.085          | 98   | 705816     | 47.97   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 80 - 120 |      | Recovery = | 95.94%  |        |          |
| 96) 4-bromofluorobenzene (s)  | 5.967          | 95   | 248431     | 48.16   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 79 - 127 |      | Recovery = | 96.32%  |        |          |
| Target Compounds              |                |      |            |         |        |          |
| 2) ethanol                    | 1.657          | 45   | 115470     | 4967.24 | ug/L   | 94       |
| 3) tertiary butyl alcohol     | 2.092          | 59   | 97824      | 241.31  | ug/L   | 86       |
| 4) 1,4-dioxane                | 3.707          | 88   | 42581      | 1387.71 | ug/L   | 87       |
| 6) chlorodifluoromethane      | 1.091          | 51   | 116051     | 49.02   | ug/L   | 95       |
| 7) dichlorodifluoromethane    | 1.070          | 85   | 134240     | 37.57   | ug/L   | 96       |
| 8) chloromethane              | 1.169          | 50   | 105248     | 43.07   | ug/L   | 99       |
| 9) vinyl chloride             | 1.206          | 62   | 151310     | 46.62   | ug/L   | 99       |
| 10) 1,3-butadiene             | 1.211          | 39   | 125004     | 59.66   | ug/L   | 93       |
| 11) bromomethane              | 1.358          | 96   | 177777     | 57.50   | ug/L # | 96       |
| 12) chloroethane              | 1.416          | 64   | 138229     | 55.58   | ug/L   | 99       |
| 13) trichlorofluoromethane    | 1.479          | 101  | 443349     | 53.16   | ug/L   | 99       |
| 14) ethyl ether               | 1.610          | 74   | 93916      | 52.42   | ug/L   | 96       |
| 15) acrolein                  | 1.851          | 56   | 24373      | 48.38   | ug/L   | 94       |
| 16) freon 113                 | 1.720          | 151  | 136699     | 49.21   | ug/L   | 95       |
| 17) 1,1-dichloroethene        | 1.710          | 61   | 204739     | 50.76   | ug/L   | 96       |
| 18) acetone                   | 1.977          | 58   | 78466      | 234.30  | ug/L   | 91       |
| 19) acetonitrile              | 2.192          | 41   | 137292     | 512.43  | ug/L   | 99       |
| 20) iodomethane               | 1.788          | 142  | 119580     | 52.07   | ug/L   | 100      |
| 21) carbon disulfide          | 1.741          | 76   | 363805     | 49.07   | ug/L   | 99       |
| 22) methylene chloride        | 1.966          | 84   | 109522     | 46.81   | ug/L   | 99       |
| 23) methyl acetate            | 2.024          | 74   | 24618      | 46.76   | ug/L # | 74       |
| 24) methyl tert butyl ether   | 2.076          | 73   | 342012     | 48.26   | ug/L   | 91       |
| 25) trans-1,2-dichloroethene  | 2.035          | 61   | 166583     | 53.18   | ug/L   | 94       |
| 26) hexane                    | 2.066          | 57   | 246396     | 48.82   | ug/L   | 99       |
| 27) di-isopropyl ether        | 2.234          | 45   | 322677     | 50.02   | ug/L   | 97       |
| 28) ethyl tert-butyl ether    | 2.402          | 59   | 339743     | 49.64   | ug/L   | 96       |
| 29) 2-butanone                | 2.832          | 72   | 89038      | 201.11  | ug/L   | 92       |
| 30) 1,1-dichloroethane        | 2.312          | 63   | 223541     | 49.72   | ug/L   | 99       |
| 31) chloroprene               | 2.302          | 53   | 178340     | 50.53   | ug/L   | 92       |
| 32) acrylonitrile             | 2.333          | 52   | 38568      | 54.08   | ug/L   | 99       |
| 33) vinyl acetate             | 2.407          | 86   | 26014      | 47.27   | ug/L # | 77       |
| 34) ethyl acetate             | 2.727          | 70   | 14059      | 44.30   | ug/L   | 85       |
| 35) 2,2-dichloropropane       | 2.622          | 77   | 183102     | 44.70   | ug/L   | 100      |
| 36) cis-1,2-dichloroethene    | 2.564          | 96   | 130312     | 45.79   | ug/L   | 94       |
| 37) propionitrile             | 2.984          | 54   | 202533     | 489.47  | ug/L   | 97       |
| 38) methyl acrylate           | 2.737          | 85   | 28643      | 50.18   | ug/L # | 91       |
| 39) bromochloromethane        | 2.664          | 128  | 64531      | 47.43   | ug/L   | 90       |
| 40) tetrahydrofuran           | 2.774          | 71   | 18290      | 45.48   | ug/L # | 79       |
| 41) chloroform                | 2.685          | 47   | 64956      | 60.06   | ug/L   | 94       |

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\Angieg\November 2022\nov. 3, 2022\v1u2018\  
 Data File : 1u49692.d  
 Acq On : 1 Nov 2022 10:09 pm  
 Operator : edwardd  
 Sample : bs Inst : GCMS-U  
 Misc : MS46075,V1U2018,5,,,,,1  
 ALS Vial : 55 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1U2015.M  
 Quant Results File: M1U2015.RES  
 Quant Time: Nov 02 23:22:29 2022  
 Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um  
 QLast Update : Wed Nov 02 11:15:22 2022  
 Response via : Initial Calibration

| Compound                      | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|---------|--------|----------|
| 43) methacrylonitrile         | 2.999 | 67   | 61781    | 46.08   | ug/L   | 78       |
| 44) 1,1,1-trichloroethane     | 2.805 | 97   | 222887   | 47.67   | ug/L   | 97       |
| 45) cyclohexane               | 2.679 | 84   | 196516   | 51.26   | ug/L   | 98       |
| 46) 1,1-dichloropropene       | 2.863 | 75   | 175492   | 47.83   | ug/L   | 98       |
| 47) carbon tetrachloride      | 2.774 | 117  | 211558   | 45.04   | ug/L   | 99       |
| 48) isobutyl alcohol          | 3.026 | 43   | 153153   | 525.98  | ug/L   | 97       |
| 49) tert-amyl alcohol         | 3.104 | 55   | 36058    | 220.93  | ug/L   | 96       |
| 52) iso-octane                | 2.910 | 57   | 414789   | 48.26   | ug/L   | 98       |
| 53) benzene                   | 2.989 | 78   | 491313   | 50.94   | ug/L   | 98       |
| 54) tert-amyl methyl ether    | 3.026 | 73   | 350243   | 53.31   | ug/L   | 98       |
| 55) heptane                   | 2.952 | 57   | 76959    | 50.06   | ug/L   | 97       |
| 56) isopropyl acetate         | 3.183 | 87   | 32821    | 50.13   | ug/L # | 90       |
| 57) 1,2-dichloroethane        | 3.088 | 62   | 172213   | 51.14   | ug/L   | 99       |
| 58) n-butyl alcohol           | 3.419 | 56   | 211265   | 2396.92 | ug/L   | 98       |
| 59) ethyl acrylate            | 3.555 | 55   | 169056   | 50.15   | ug/L   | 98       |
| 60) trichloroethene           | 3.288 | 130  | 153271   | 50.43   | ug/L   | 98       |
| 61) 2-nitropropane            | 4.247 | 41   | 43185    | 49.73   | ug/L   | 97       |
| 62) 2-chloroethyl vinyl ether | 3.917 | 63   | 287125   | 228.30  | ug/L   | 98       |
| 63) methyl methacrylate       | 3.670 | 100  | 38510    | 50.84   | ug/L   | 93       |
| 64) 1,2-dichloropropane       | 3.576 | 63   | 113816   | 52.11   | ug/L   | 99       |
| 65) methylcyclohexane         | 3.293 | 55   | 147899   | 48.17   | ug/L   | 99       |
| 66) dibromomethane            | 3.518 | 93   | 88808    | 50.00   | ug/L   | 96       |
| 67) bromodichloromethane      | 3.602 | 83   | 187571   | 50.95   | ug/L   | 97       |
| 68) epichlorohydrin           | 4.111 | 57   | 73933    | 238.47  | ug/L   | 95       |
| 69) cis-1,3-dichloropropene   | 3.964 | 75   | 187351   | 49.18   | ug/L   | 96       |
| 70) 4-methyl-2-pentanone      | 4.336 | 58   | 224635   | 199.80  | ug/L   | 95       |
| 71) 3-methyl-1-butanol        | 4.189 | 70   | 90189    | 1038.54 | ug/L   | 94       |
| 74) toluene                   | 4.116 | 92   | 321499   | 49.94   | ug/L   | 98       |
| 75) ethyl methacrylate        | 4.452 | 69   | 163609   | 50.16   | ug/L   | 99       |
| 76) trans-1,3-dichloropropene | 4.362 | 75   | 188096   | 51.38   | ug/L   | 98       |
| 77) 1,1,2-trichloroethane     | 4.467 | 83   | 100008   | 52.24   | ug/L   | 95       |
| 78) tetrachloroethene         | 4.362 | 166  | 171526   | 52.29   | ug/L   | 98       |
| 79) 2-hexanone                | 4.882 | 58   | 242411   | 200.05  | ug/L   | 98       |
| 80) 1,3-dichloropropane       | 4.651 | 76   | 181525   | 49.49   | ug/L   | 99       |
| 81) butyl acetate             | 4.813 | 56   | 78492    | 50.03   | ug/L   | 98       |
| 82) dibromochloromethane      | 4.588 | 129  | 153253   | 49.57   | ug/L   | 97       |
| 83) 1,2-dibromoethane         | 4.750 | 107  | 132268   | 48.07   | ug/L   | 99       |
| 84) n-butyl ether             | 5.028 | 57   | 441955   | 49.87   | ug/L   | 99       |
| 85) chlorobenzene             | 5.102 | 112  | 377390   | 50.26   | ug/L   | 97       |
| 86) 1,1,1,2-tetrachloroethane | 5.144 | 131  | 139899   | 51.66   | ug/L   | 98       |
| 87) ethylbenzene              | 5.117 | 91   | 639689   | 50.82   | ug/L   | 99       |
| 88) m,p-xylene                | 5.222 | 106  | 492399   | 107.87  | ug/L   | 98       |
| 89) o-xylene                  | 5.526 | 106  | 220760   | 50.87   | ug/L   | 97       |
| 90) styrene                   | 5.563 | 104  | 372757   | 52.42   | ug/L   | 98       |
| 91) bromoform                 | 5.584 | 173  | 122873   | 50.55   | ug/L   | 96       |
| 92) butyl acrylate            | 5.652 | 55   | 216008   | 51.13   | ug/L   | 98       |
| 93) isopropylbenzene          | 5.757 | 105  | 611958   | 51.53   | ug/L   | 100      |
| 94) cis-1,4-dichloro-2-butene | 6.014 | 88   | 50516    | 39.05   | ug/L   | 97       |
| 97) bromobenzene              | 6.045 | 156  | 158562   | 50.28   | ug/L   | 97       |
| 98) 1,1,2,2-tetrachloroethane | 6.114 | 83   | 163015   | 46.55   | ug/L   | 98       |
| 99) trans-1,4-dichloro-2-b... | 6.250 | 53   | 35312    | 43.65   | ug/L   | 99       |
| 100) 1,2,3-trichloropropane   | 6.218 | 110  | 56797    | 52.42   | ug/L   | 100      |
| 101) n-propylbenzene          | 6.072 | 91   | 695474   | 51.15   | ug/L   | 99       |
| 102) 2-chlorotoluene          | 6.187 | 126  | 144483   | 49.41   | ug/L   | 92       |
| 103) 4-chlorotoluene          | 6.313 | 91   | 397907   | 50.20   | ug/L   | 96       |
| 104) 1,3,5-trimethylbenzene   | 6.224 | 105  | 463804   | 51.00   | ug/L   | 98       |
| 105) tert-butylbenzene        | 6.465 | 119  | 412183   | 50.36   | ug/L   | 99       |

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\Angieg\November 2022\nov. 3, 2022\v1u2018\  
 Data File : 1u49692.d  
 Acq On : 1 Nov 2022 10:09 pm  
 Operator : edwardd  
 Sample : bs Inst : GCMS-U  
 Misc : MS46075,V1U2018,5,,,,,1  
 ALS Vial : 55 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1U2015.M  
 Quant Results File: M1U2015.RES  
 Quant Time: Nov 02 23:22:29 2022  
 Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um  
 QLast Update : Wed Nov 02 11:15:22 2022  
 Response via : Initial Calibration

| Compound                       | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-------|-------|----------|
| 106) 1,2,4-trimethylbenzene    | 6.523 | 105  | 455597   | 51.60 | ug/L  | 99       |
| 107) sec-butylbenzene          | 6.606 | 105  | 602830   | 50.75 | ug/L  | 99       |
| 108) 1,3-dichlorobenzene       | 6.769 | 146  | 277523   | 49.42 | ug/L  | 98       |
| 109) p-isopropyltoluene        | 6.722 | 119  | 495463   | 51.38 | ug/L  | 99       |
| 110) 1,4-dichlorobenzene       | 6.837 | 146  | 279299   | 49.62 | ug/L  | 99       |
| 111) 1,2-dichlorobenzene       | 7.152 | 146  | 249197   | 48.49 | ug/L  | 97       |
| 112) 1,2,3-trimethylbenzene    | 6.858 | 105  | 456515   | 52.45 | ug/L  | 99       |
| 113) n-butylbenzene            | 7.042 | 92   | 252647   | 52.90 | ug/L  | 98       |
| 114) 1,2-dibromo-3-chloropr... | 7.723 | 157  | 45076    | 45.50 | ug/L  | 98       |
| 115) 1,3,5-trichlorobenzene    | 7.755 | 180  | 170635   | 47.75 | ug/L  | 98       |
| 116) 1,2,4-trichlorobenzene    | 8.190 | 180  | 140962   | 47.98 | ug/L  | 97       |
| 117) hexachlorobutadiene       | 8.179 | 225  | 64853    | 45.23 | ug/L  | 98       |
| 118) naphthalene               | 8.405 | 128  | 415346   | 47.10 | ug/L  | 99       |
| 119) 1,2,3-trichlorobenzene    | 8.525 | 180  | 136889   | 46.92 | ug/L  | 98       |
| 120) hexachloroethane          | 7.136 | 119  | 93222    | 53.68 | ug/L  | 100      |
| 121) benzyl chloride           | 7.026 | 126  | 56563    | 47.26 | ug/L  | 99       |
| 122) 2-methylnaphthalene       | 9.081 | 142  | 73728    | 23.69 | ug/L  | 97       |

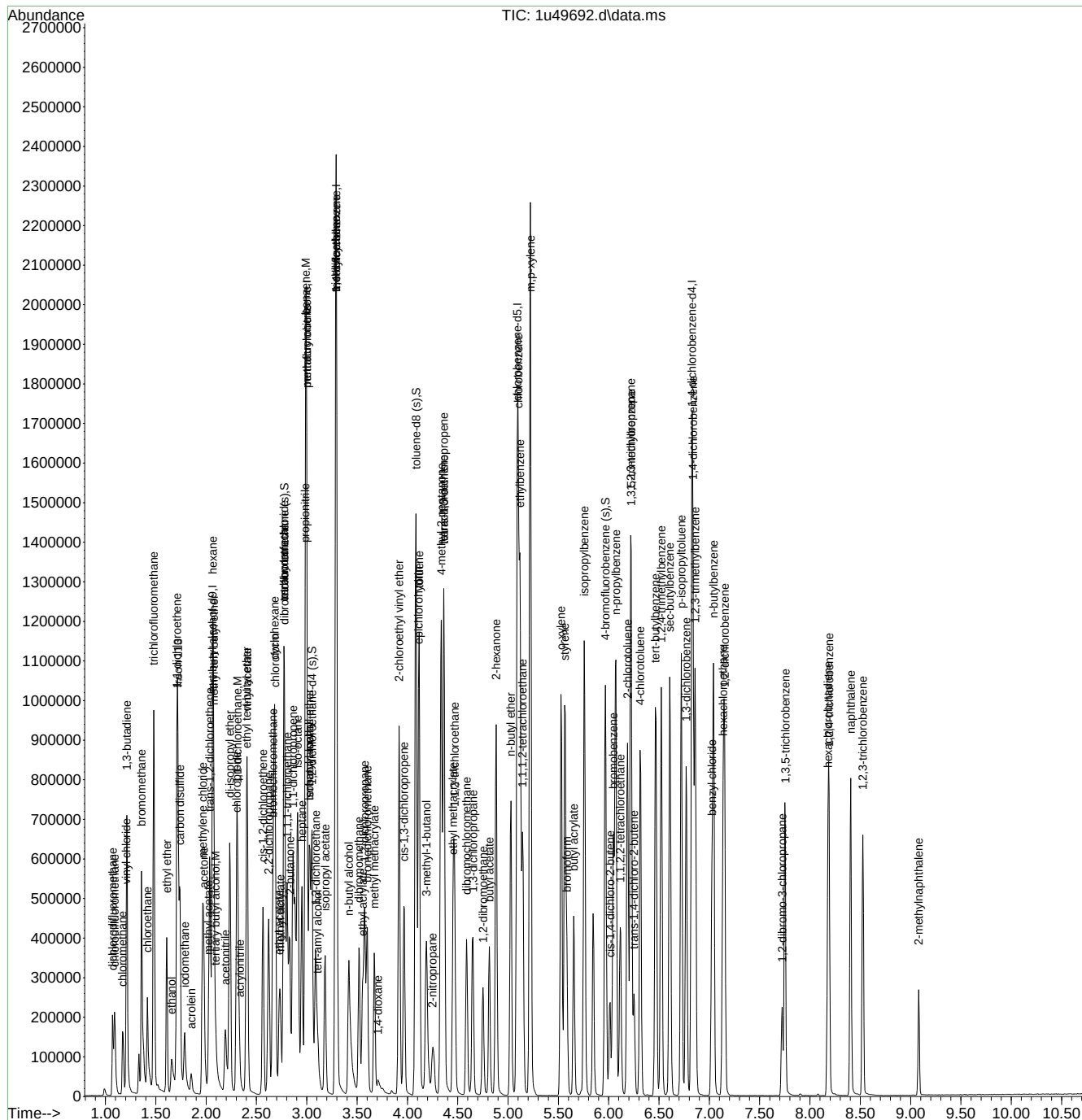
(#) = qualifier out of range (m) = manual integration (+) = signals summed

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\Angieg\November 2022\nov. 3, 2022\v1u2018\  
Data File : 1u49692.d  
Acq On : 1 Nov 2022 10:09 pm  
Operator : edwardd  
Sample : bs  
Misc : MS46075,V1U2018,5,,,,,1  
ALS Vial : 55 Sample Multiplier: 1

Inst : GCMS-U

Quant Method : C:\MSDCHEM\1\METHODS\M1U2015.M  
Quant Results File: M1U2015.RES  
Quant Time: Nov 02 23:22:29 2022  
Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um  
QLast Update : Wed Nov 02 11:15:22 2022  
Response via : Initial Calibration



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\Angieg\November 2022\nov. 3, 2022\v2u2018\  
 Data File : 2u49693.d  
 Acq On : 1 Nov 2022 10:24 pm  
 Operator : edwardd  
 Sample : bs Inst : GCMS-U  
 Misc : MS46075,V2U2018,5,,,,,1  
 ALS Vial : 56 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2U2015.M  
 Quant Results File: M2U2015.RES  
 Quant Time: Nov 03 00:41:19 2022  
 Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um  
 QLast Update : Wed Nov 02 12:34:58 2022  
 Response via : Initial Calibration

| Compound                      | R.T.           | QIon | Response   | Conc    | Units | Dev(Min) |
|-------------------------------|----------------|------|------------|---------|-------|----------|
| Internal Standards            |                |      |            |         |       |          |
| 1) tert butyl alcohol-d9      | 2.066          | 65   | 348452     | 500.00  | ug/L  | 0.00     |
| 5) pentafluorobenzene         | 2.999          | 168  | 423234     | 50.00   | ug/L  | 0.00     |
| 50) 1,4-difluorobenzene       | 3.293          | 114  | 552953     | 50.00   | ug/L  | 0.00     |
| 72) chlorobenzene-d5          | 5.091          | 117  | 558881     | 50.00   | ug/L  | 0.00     |
| 95) 1,4-dichlorobenzene-d4    | 6.827          | 152  | 297195     | 50.00   | ug/L  | 0.00     |
| System Monitoring Compounds   |                |      |            |         |       |          |
| 42) dibromofluoromethane (s)  | 2.779          | 113  | 191362     | 46.42   | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 75 - 127 |      | Recovery = | 92.84%  |       |          |
| 51) 1,2-dichloroethane-d4 (s) | 3.052          | 65   | 225943     | 51.60   | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 75 - 130 |      | Recovery = | 103.20% |       |          |
| 73) toluene-d8 (s)            | 4.085          | 98   | 656689     | 47.65   | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 80 - 120 |      | Recovery = | 95.30%  |       |          |
| 96) 4-bromofluorobenzene (s)  | 5.967          | 95   | 252683     | 47.65   | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 79 - 127 |      | Recovery = | 95.30%  |       |          |
| Target Compounds              |                |      |            |         |       |          |
|                               |                |      |            |         |       | Qvalue   |
| 2) ethanol                    | 1.663          | 45   | 155533     | 5081.66 | ug/L  | 94       |
| 3) tertiary butyl alcohol     | 2.098          | 59   | 110282     | 234.29  | ug/L  | 93       |
| 4) 1,4-dioxane                | 3.713          | 88   | 51992      | 1315.57 | ug/L  | 93       |
| 6) chlorodifluoromethane      | 1.091          | 51   | 123551     | 48.24   | ug/L  | 96       |
| 7) dichlorodifluoromethane    | 1.075          | 85   | 136717     | 37.15   | ug/L  | 100      |
| 8) chloromethane              | 1.175          | 50   | 114557     | 43.16   | ug/L  | 99       |
| 9) vinyl chloride             | 1.212          | 62   | 145576     | 47.18   | ug/L  | 98       |
| 10) 1,3-butadiene             | 1.217          | 39   | 103338     | 58.23   | ug/L  | 94       |
| 11) bromomethane              | 1.364          | 96   | 150461     | 59.48   | ug/L  | # 96     |
| 12) chloroethane              | 1.421          | 64   | 132398     | 53.20   | ug/L  | 99       |
| 13) trichlorofluoromethane    | 1.484          | 101  | 404790     | 53.61   | ug/L  | 99       |
| 14) ethyl ether               | 1.610          | 74   | 83469      | 51.72   | ug/L  | 98       |
| 15) acrolein                  | 1.857          | 56   | 25645      | 50.27   | ug/L  | 96       |
| 16) freon 113                 | 1.725          | 151  | 127136     | 52.91   | ug/L  | 95       |
| 17) 1,1-dichloroethene        | 1.715          | 61   | 185784     | 52.11   | ug/L  | 99       |
| 18) acetone                   | 1.982          | 58   | 71071      | 208.81  | ug/L  | 91       |
| 19) acetonitrile              | 2.192          | 41   | 160812     | 485.49  | ug/L  | 99       |
| 20) iodomethane               | 1.788          | 142  | 115185     | 45.38   | ug/L  | 95       |
| 21) carbon disulfide          | 1.741          | 76   | 341686     | 51.96   | ug/L  | 97       |
| 22) methylene chloride        | 1.967          | 84   | 106874     | 46.45   | ug/L  | 93       |
| 23) methyl acetate            | 2.030          | 74   | 24696      | 45.82   | ug/L  | # 81     |
| 24) methyl tert butyl ether   | 2.077          | 73   | 311343     | 47.57   | ug/L  | 87       |
| 25) trans-1,2-dichloroethene  | 2.040          | 61   | 154830     | 53.77   | ug/L  | 98       |
| 26) hexane                    | 2.071          | 57   | 229934     | 49.63   | ug/L  | 97       |
| 27) di-isopropyl ether        | 2.239          | 45   | 287412     | 48.39   | ug/L  | 99       |
| 28) ethyl tert-butyl ether    | 2.407          | 59   | 305811     | 49.41   | ug/L  | 95       |
| 29) 2-butanone                | 2.832          | 72   | 86947      | 201.13  | ug/L  | # 86     |
| 30) 1,1-dichloroethane        | 2.318          | 63   | 202311     | 49.66   | ug/L  | 99       |
| 31) chloroprene               | 2.307          | 53   | 163055     | 49.87   | ug/L  | 98       |
| 32) acrylonitrile             | 2.334          | 52   | 36004      | 51.38   | ug/L  | 98       |
| 33) vinyl acetate             | 2.412          | 86   | 25732      | 51.85   | ug/L  | # 77     |
| 34) ethyl acetate             | 2.732          | 70   | 14178      | 46.56   | ug/L  | 91       |
| 35) 2,2-dichloropropane       | 2.622          | 77   | 174231     | 47.15   | ug/L  | 99       |
| 36) cis-1,2-dichloroethene    | 2.570          | 96   | 121630     | 46.62   | ug/L  | 99       |
| 37) propionitrile             | 2.989          | 54   | 220926     | 503.28  | ug/L  | 98       |
| 38) methyl acrylate           | 2.743          | 85   | 25186      | 50.24   | ug/L  | # 92     |
| 39) bromochloromethane        | 2.664          | 128  | 57178      | 45.27   | ug/L  | 91       |
| 40) tetrahydrofuran           | 2.774          | 71   | 19300      | 48.29   | ug/L  | 94       |
| 41) chloroform                | 2.685          | 47   | 59702      | 48.01   | ug/L  | 96       |



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\Angieg\November 2022\nov. 3, 2022\v2u2018\  
 Data File : 2u49693.d  
 Acq On : 1 Nov 2022 10:24 pm  
 Operator : edwardd  
 Sample : bs Inst : GCMS-U  
 Misc : MS46075,V2U2018,5,,,,,1  
 ALS Vial : 56 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2U2015.M  
 Quant Results File: M2U2015.RES  
 Quant Time: Nov 03 00:41:19 2022  
 Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um  
 QLast Update : Wed Nov 02 12:34:58 2022  
 Response via : Initial Calibration

| Compound                      | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|-------|------|----------|---------|-------|----------|
| 43) methacrylonitrile         | 2.999 | 67   | 59238    | 49.17   | ug/L  | 96       |
| 44) 1,1,1-trichloroethane     | 2.805 | 97   | 207870   | 49.14   | ug/L  | 97       |
| 45) cyclohexane               | 2.680 | 84   | 181666   | 51.24   | ug/L  | 95       |
| 46) 1,1-dichloropropene       | 2.863 | 75   | 163495   | 50.29   | ug/L  | 98       |
| 47) carbon tetrachloride      | 2.774 | 117  | 199001   | 46.38   | ug/L  | 98       |
| 48) isobutyl alcohol          | 3.031 | 43   | 158128   | 533.83  | ug/L  | 97       |
| 49) tert-amyl alcohol         | 3.110 | 55   | 37696    | 239.74  | ug/L  | 97       |
| 52) iso-octane                | 2.910 | 57   | 387694   | 49.83   | ug/L  | 93       |
| 53) benzene                   | 2.989 | 78   | 453481   | 51.66   | ug/L  | 99       |
| 54) tert-amyl methyl ether    | 3.031 | 73   | 312292   | 49.71   | ug/L  | 99       |
| 55) heptane                   | 2.952 | 57   | 71916    | 53.51   | ug/L  | 98       |
| 56) isopropyl acetate         | 3.183 | 87   | 31561    | 51.88   | ug/L  | 93       |
| 57) 1,2-dichloroethane        | 3.089 | 62   | 154402   | 50.16   | ug/L  | 98       |
| 58) n-butyl alcohol           | 3.419 | 56   | 249376   | 2489.26 | ug/L  | 99       |
| 59) ethyl acrylate            | 3.555 | 55   | 161859   | 49.27   | ug/L  | 99       |
| 60) trichloroethene           | 3.288 | 130  | 141731   | 52.03   | ug/L  | 98       |
| 61) 2-nitropropane            | 4.247 | 41   | 44329    | 51.12   | ug/L  | 94       |
| 62) 2-chloroethyl vinyl ether | 3.917 | 63   | 352281   | 265.64  | ug/L  | 99       |
| 63) methyl methacrylate       | 3.676 | 100  | 36375    | 51.03   | ug/L  | 95       |
| 64) 1,2-dichloropropane       | 3.576 | 63   | 105257   | 53.41   | ug/L  | 100      |
| 65) methylcyclohexane         | 3.293 | 55   | 138073   | 49.33   | ug/L  | 99       |
| 66) dibromomethane            | 3.519 | 93   | 83772    | 49.88   | ug/L  | 97       |
| 67) bromodichloromethane      | 3.602 | 83   | 168808   | 49.85   | ug/L  | 100      |
| 68) epichlorohydrin           | 4.111 | 57   | 84208    | 245.85  | ug/L  | 98       |
| 69) cis-1,3-dichloropropene   | 3.969 | 75   | 174242   | 50.29   | ug/L  | 97       |
| 70) 4-methyl-2-pentanone      | 4.336 | 58   | 222955   | 205.95  | ug/L  | 97       |
| 71) 3-methyl-1-butanol        | 4.190 | 70   | 105716   | 1046.76 | ug/L  | 95       |
| 74) toluene                   | 4.116 | 92   | 298985   | 50.59   | ug/L  | 98       |
| 75) ethyl methacrylate        | 4.457 | 69   | 152753   | 50.19   | ug/L  | 99       |
| 76) trans-1,3-dichloropropene | 4.363 | 75   | 172939   | 50.39   | ug/L  | 99       |
| 77) 1,1,2-trichloroethane     | 4.468 | 83   | 91424    | 48.34   | ug/L  | 98       |
| 78) tetrachloroethene         | 4.363 | 166  | 160610   | 52.31   | ug/L  | 96       |
| 79) 2-hexanone                | 4.882 | 58   | 242790   | 195.00  | ug/L  | 96       |
| 80) 1,3-dichloropropane       | 4.651 | 76   | 170033   | 49.19   | ug/L  | 97       |
| 81) butyl acetate             | 4.814 | 56   | 77067    | 49.41   | ug/L  | 96       |
| 82) dibromochloromethane      | 4.588 | 129  | 144438   | 48.23   | ug/L  | 100      |
| 83) 1,2-dibromoethane         | 4.751 | 107  | 126055   | 48.57   | ug/L  | 96       |
| 84) n-butyl ether             | 5.029 | 57   | 432851   | 52.12   | ug/L  | 99       |
| 85) chlorobenzene             | 5.107 | 112  | 359407   | 51.05   | ug/L  | 98       |
| 86) 1,1,1,2-tetrachloroethane | 5.144 | 131  | 132054   | 52.15   | ug/L  | 97       |
| 87) ethylbenzene              | 5.118 | 91   | 617988   | 51.22   | ug/L  | 95       |
| 88) m,p-xylene                | 5.223 | 106  | 480757   | 111.41  | ug/L  | 96       |
| 89) o-xylene                  | 5.527 | 106  | 217282   | 51.61   | ug/L  | 95       |
| 90) styrene                   | 5.563 | 104  | 369297   | 54.63   | ug/L  | 99       |
| 91) bromoform                 | 5.584 | 173  | 120751   | 51.13   | ug/L  | 99       |
| 92) butyl acrylate            | 5.652 | 55   | 217781   | 50.45   | ug/L  | 99       |
| 93) isopropylbenzene          | 5.757 | 105  | 618482   | 55.19   | ug/L  | 99       |
| 94) cis-1,4-dichloro-2-butene | 6.014 | 88   | 64177    | 45.93   | ug/L  | 93       |
| 97) bromobenzene              | 6.046 | 156  | 160461   | 47.64   | ug/L  | 96       |
| 98) 1,1,2,2-tetrachloroethane | 6.114 | 83   | 168956   | 46.63   | ug/L  | 96       |
| 99) trans-1,4-dichloro-2-b... | 6.250 | 53   | 38741    | 43.34   | ug/L  | 94       |
| 100) 1,2,3-trichloropropane   | 6.219 | 110  | 57981    | 48.84   | ug/L  | 97       |
| 101) n-propylbenzene          | 6.072 | 91   | 720216   | 52.17   | ug/L  | 97       |
| 102) 2-chlorotoluene          | 6.187 | 126  | 149804   | 50.61   | ug/L  | 95       |
| 103) 4-chlorotoluene          | 6.313 | 91   | 411982   | 50.66   | ug/L  | 99       |
| 104) 1,3,5-trimethylbenzene   | 6.224 | 105  | 496475   | 53.15   | ug/L  | 98       |
| 105) tert-butylbenzene        | 6.470 | 119  | 436464   | 52.64   | ug/L  | 97       |

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\Angieg\November 2022\nov. 3, 2022\v2u2018\  
Data File : 2u49693.d  
Acq On : 1 Nov 2022 10:24 pm  
Operator : edwardd  
Sample : bs Inst : GCMS-U  
Misc : MS46075,V2U2018,5,,,,,1  
ALS Vial : 56 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2U2015.M  
Quant Results File: M2U2015.RES  
Quant Time: Nov 03 00:41:19 2022  
Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um  
QLast Update : Wed Nov 02 12:34:58 2022  
Response via : Initial Calibration

|      | Compound                  | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|------|---------------------------|-------|------|----------|-------|-------|----------|
| 106) | 1,2,4-trimethylbenzene    | 6.523 | 105  | 490585   | 53.58 | ug/L  | 97       |
| 107) | sec-butylbenzene          | 6.607 | 105  | 651124   | 53.85 | ug/L  | 98       |
| 108) | 1,3-dichlorobenzene       | 6.769 | 146  | 299672   | 50.74 | ug/L  | 99       |
| 109) | p-isopropyltoluene        | 6.722 | 119  | 549181   | 55.52 | ug/L  | 98       |
| 110) | 1,4-dichlorobenzene       | 6.837 | 146  | 304866   | 51.62 | ug/L  | 97       |
| 111) | 1,2-dichlorobenzene       | 7.152 | 146  | 273576   | 50.64 | ug/L  | 100      |
| 112) | 1,2,3-trimethylbenzene    | 6.858 | 105  | 494263   | 52.86 | ug/L  | 99       |
| 113) | n-butylbenzene            | 7.042 | 92   | 280025   | 55.90 | ug/L  | 100      |
| 114) | 1,2-dibromo-3-chloropr... | 7.723 | 157  | 51235    | 45.12 | ug/L  | 93       |
| 115) | 1,3,5-trichlorobenzene    | 7.750 | 180  | 191972   | 48.32 | ug/L  | 98       |
| 116) | 1,2,4-trichlorobenzene    | 8.190 | 180  | 152389   | 46.40 | ug/L  | 99       |
| 117) | hexachlorobutadiene       | 8.180 | 225  | 75683    | 46.65 | ug/L  | 97       |
| 118) | naphthalene               | 8.405 | 128  | 437035   | 47.15 | ug/L  | 100      |
| 119) | 1,2,3-trichlorobenzene    | 8.526 | 180  | 148952   | 48.31 | ug/L  | 99       |
| 120) | hexachloroethane          | 7.136 | 119  | 101871   | 56.20 | ug/L  | 96       |
| 121) | benzyl chloride           | 7.026 | 126  | 63904    | 50.34 | ug/L  | 98       |
| 122) | 2-methylnaphthalene       | 9.081 | 142  | 68263    | 22.70 | ug/L  | 98       |

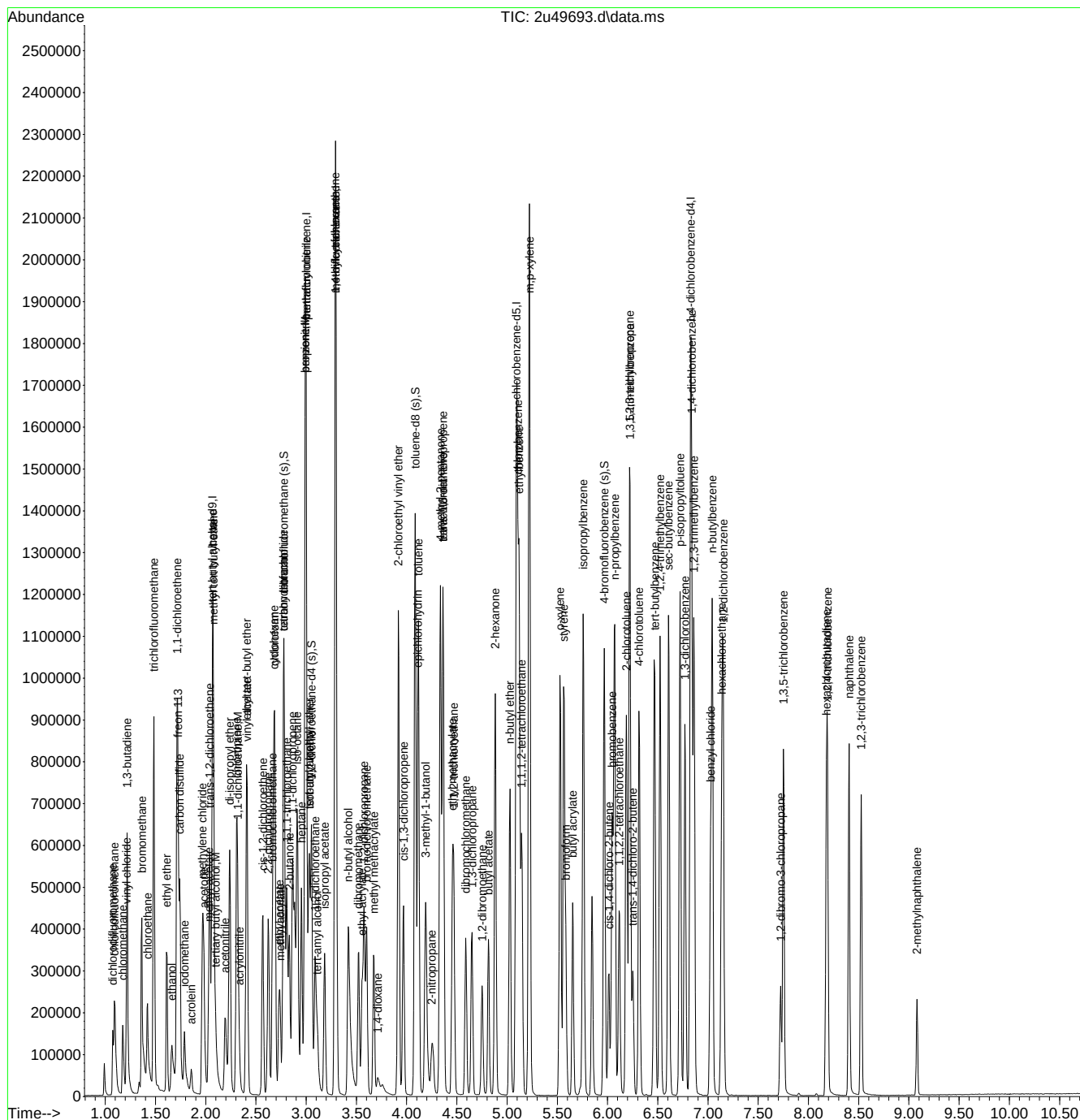
(#) = qualifier out of range (m) = manual integration (+) = signals summed



Quantitation Report (QT Reviewed)

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Data Path : C:\msdchem\1\data\Angieg\November 2022\nov. 3, 2022\v2u2018\
Data File : 2u49693.d
Acq On    : 1 Nov 2022 10:24 pm
Operator  : edwardd
Sample    : bs                      Inst      : GCMS-U
Misc      : MS46075,V2U2018,5,,,,,1
ALS Vial  : 56      Sample Multiplier: 1
```

Quant Method : C:\MSDCHEM\1\METHODS\M2U2015.M  
Quant Results File: M2U2015.RES  
Quant Time: Nov 03 00:41:19 2022  
Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um  
QLast Update : Wed Nov 02 12:34:58 2022  
Response via : Initial Calibration



## 7.3.2

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\renee\5.November\11-03-22\v1k38\  
 Data File : 1k01228.d  
 Acq On : 2 Nov 2022 10:08 am  
 Operator : taylors  
 Sample : bs Inst : GCMS K  
 Misc : MS63534,V1K0038,5,,,,,1  
 ALS Vial : 7 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1K11.M  
 Quant Results File: M1K11.RES  
 Quant Time: Nov 03 00:28:01 2022  
 Quant Title : SW-846 Method 8260D, column Rtx-VMS 20m x 0.18 id x 1.0 um  
 QLast Update : Mon Oct 17 15:11:19 2022  
 Response via : Initial Calibration

| Compound                      | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|---------|--------|----------|
| Internal Standards            |                |      |            |         |        |          |
| 1) tert butyl alcohol-d9      | 2.247          | 65   | 438349     | 500.00  | ug/L   | 0.00     |
| 5) pentafluorobenzene         | 3.212          | 168  | 288974     | 50.00   | ug/L   | 0.00     |
| 50) 1,4-difluorobenzene       | 3.511          | 114  | 491837     | 50.00   | ug/L   | 0.00     |
| 72) chlorobenzene-d5          | 5.325          | 117  | 428657     | 50.00   | ug/L   | 0.00     |
| 95) 1,4-dichlorobenzene-d4    | 7.045          | 152  | 183004     | 50.00   | ug/L   | 0.00     |
| System Monitoring Compounds   |                |      |            |         |        |          |
| 42) dibromofluoromethane (s)  | 2.992          | 113  | 139417     | 52.03   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 127 |      | Recovery = | 104.06% |        |          |
| 51) 1,2-dichloroethane-d4 (s) | 3.270          | 65   | 221885     | 51.38   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 130 |      | Recovery = | 102.76% |        |          |
| 73) toluene-d8 (s)            | 4.308          | 98   | 656317     | 52.70   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 80 - 120 |      | Recovery = | 105.40% |        |          |
| 96) 4-bromofluorobenzene (s)  | 6.195          | 95   | 235188     | 56.32   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 79 - 127 |      | Recovery = | 112.64% |        |          |
| Target Compounds              |                |      |            |         |        |          |
|                               |                |      |            |         |        | Qvalue   |
| 2) ethanol                    | 1.844          | 45   | 508319     | 4289.19 | ug/L   | 98       |
| 3) tertiary butyl alcohol     | 2.284          | 59   | 269920     | 231.16  | ug/L   | 90       |
| 4) 1,4-dioxane                | 3.936          | 88   | 66589      | 1129.23 | ug/L   | 88       |
| 6) chlorodifluoromethane      | 1.235          | 51   | 267123     | 47.53   | ug/L   | 97       |
| 7) dichlorodifluoromethane    | 1.209          | 85   | 189898     | 50.14   | ug/L   | 99       |
| 8) chloromethane              | 1.325          | 50   | 265684     | 45.92   | ug/L   | 98       |
| 9) vinyl chloride             | 1.361          | 62   | 221246     | 46.47   | ug/L   | 99       |
| 10) 1,3-butadiene             | 1.367          | 39   | 181210     | 50.82   | ug/L   | 98       |
| 11) bromomethane              | 1.519          | 96   | 61279      | 51.61   | ug/L # | 96       |
| 12) chloroethane              | 1.581          | 64   | 121666     | 45.48   | ug/L   | 97       |
| 13) trichlorofluoromethane    | 1.644          | 101  | 174174     | 48.53   | ug/L   | 99       |
| 14) ethyl ether               | 1.781          | 74   | 90420      | 54.57   | ug/L   | 89       |
| 15) acrolein                  | 2.043          | 56   | 69412      | 62.35   | ug/L   | 99       |
| 16) freon 113                 | 1.901          | 151  | 71255      | 46.14   | ug/L   | 99       |
| 17) 1,1-dichloroethene        | 1.891          | 61   | 230366     | 48.13   | ug/L   | 100      |
| 18) acetone                   | 2.169          | 58   | 174000     | 179.77  | ug/L   | 98       |
| 19) acetonitrile              | 2.394          | 41   | 567821m    | 377.65  | ug/L   |          |
| 20) iodomethane               | 1.975          | 142  | 64186      | 37.07   | ug/L   | 91       |
| 21) carbon disulfide          | 1.928          | 76   | 342876     | 48.01   | ug/L   | 99       |
| 22) methylene chloride        | 2.158          | 84   | 126276     | 50.85   | ug/L   | 100      |
| 23) methyl acetate            | 2.216          | 74   | 44762      | 38.13   | ug/L # | 86       |
| 24) methyl tert butyl ether   | 2.268          | 73   | 461638     | 54.90   | ug/L   | 86       |
| 25) trans-1,2-dichloroethene  | 2.232          | 61   | 236514     | 44.41   | ug/L   | 100      |
| 26) hexane                    | 2.258          | 57   | 484580     | 49.08   | ug/L   | 98       |
| 27) di-isopropyl ether        | 2.431          | 45   | 778328     | 50.24   | ug/L   | 99       |
| 28) ethyl tert-butyl ether    | 2.604          | 59   | 619048     | 52.53   | ug/L   | 100      |
| 29) 2-butanone                | 3.039          | 72   | 165046     | 207.17  | ug/L   | 98       |
| 30) 1,1-dichloroethane        | 2.520          | 63   | 299805     | 49.70   | ug/L   | 99       |
| 31) chloroprene               | 2.504          | 53   | 327868     | 50.45   | ug/L   | 97       |
| 32) acrylonitrile             | 2.536          | 52   | 112747     | 49.11   | ug/L   | 98       |
| 33) vinyl acetate             | 2.609          | 86   | 41088      | 84.63   | ug/L # | 88       |
| 34) ethyl acetate             | 2.929          | 70   | 28186      | 54.87   | ug/L   | 90       |
| 35) 2,2-dichloropropane       | 2.835          | 77   | 202500     | 54.00   | ug/L   | 98       |
| 36) cis-1,2-dichloroethene    | 2.777          | 96   | 120889     | 47.42   | ug/L   | 94       |
| 37) propionitrile             | 3.202          | 54   | 657652     | 505.64  | ug/L   | 96       |
| 38) methyl acrylate           | 2.945          | 85   | 39089      | 46.41   | ug/L # | 91       |
| 39) bromochloromethane        | 2.877          | 128  | 45624      | 46.23   | ug/L   | 94       |
| 40) tetrahydrofuran           | 2.981          | 71   | 35921      | 51.56   | ug/L   | 95       |
| 41) chloroform                | 2.897          | 47   | 93817      | 48.36   | ug/L   | 98       |

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\renee\5.November\11-03-22\v1k38\  
 Data File : 1k01228.d  
 Acq On : 2 Nov 2022 10:08 am  
 Operator : taylors  
 Sample : bs Inst : GCMS K  
 Misc : MS63534,V1K0038,5,,,,,1  
 ALS Vial : 7 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1K11.M  
 Quant Results File: M1K11.RES  
 Quant Time: Nov 03 00:28:01 2022  
 Quant Title : SW-846 Method 8260D, column Rtx-VMS 20m x 0.18 id x 1.0 um  
 QLast Update : Mon Oct 17 15:11:19 2022  
 Response via : Initial Calibration

| Compound                      | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|---------|--------|----------|
| 43) methacrylonitrile         | 3.212 | 67   | 108767   | 49.48   | ug/L   | 94       |
| 44) 1,1,1-trichloroethane     | 3.018 | 97   | 185249   | 50.88   | ug/L   | 99       |
| 45) cyclohexane               | 2.887 | 84   | 224005   | 48.73   | ug/L   | 98       |
| 46) 1,1-dichloropropene       | 3.076 | 75   | 196432   | 52.36   | ug/L   | 97       |
| 47) carbon tetrachloride      | 2.987 | 117  | 147891   | 44.76   | ug/L   | 97       |
| 48) isobutyl alcohol          | 3.249 | 43   | 472809   | 546.36  | ug/L   | 94       |
| 49) tert-amyl alcohol         | 3.317 | 55   | 113171   | 263.64  | ug/L   | 96       |
| 52) iso-octane                | 3.123 | 57   | 781722   | 43.90   | ug/L   | 97       |
| 53) benzene                   | 3.207 | 78   | 550925   | 45.32   | ug/L   | 96       |
| 54) tert-amyl methyl ether    | 3.238 | 73   | 480137   | 49.75   | ug/L   | 99       |
| 55) heptane                   | 3.160 | 57   | 131964   | 51.09   | ug/L   | 95       |
| 56) isopropyl acetate         | 3.396 | 87   | 49962    | 54.83   | ug/L # | 90       |
| 57) 1,2-dichloroethane        | 3.306 | 62   | 223944   | 49.44   | ug/L   | 98       |
| 58) n-butyl alcohol           | 3.631 | 56   | 790840   | 2631.38 | ug/L   | 96       |
| 59) ethyl acrylate            | 3.768 | 55   | 411797   | 56.39   | ug/L   | 99       |
| 60) trichloroethene           | 3.506 | 130  | 103152   | 42.11   | ug/L   | 91       |
| 61) 2-nitropropane            | 4.476 | 41   | 101867   | 48.94   | ug/L   | 96       |
| 62) 2-chloroethyl vinyl ether | 4.140 | 63   | 673638   | 253.94  | ug/L   | 99       |
| 63) methyl methacrylate       | 3.888 | 100  | 48026    | 47.12   | ug/L # | 79       |
| 64) 1,2-dichloropropane       | 3.799 | 63   | 179753   | 49.08   | ug/L   | 98       |
| 65) methylcyclohexane         | 3.516 | 55   | 280635   | 42.49   | ug/L   | 100      |
| 66) dibromomethane            | 3.747 | 93   | 78765    | 48.55   | ug/L   | 92       |
| 67) bromodichloromethane      | 3.825 | 83   | 172043   | 50.61   | ug/L   | 99       |
| 68) epichlorohydrin           | 4.339 | 57   | 215953   | 262.87  | ug/L   | 98       |
| 69) cis-1,3-dichloropropene   | 4.192 | 75   | 242120   | 50.31   | ug/L   | 99       |
| 70) 4-methyl-2-pentanone      | 4.559 | 58   | 562739   | 205.64  | ug/L   | 97       |
| 71) 3-methyl-1-butanol        | 4.407 | 70   | 239788   | 1140.77 | ug/L   | 98       |
| 74) toluene                   | 4.345 | 92   | 313396   | 45.54   | ug/L   | 97       |
| 75) ethyl methacrylate        | 4.675 | 69   | 239571   | 55.14   | ug/L   | 99       |
| 76) trans-1,3-dichloropropene | 4.591 | 75   | 233146   | 55.28   | ug/L   | 98       |
| 77) 1,1,2-trichloroethane     | 4.696 | 83   | 101695   | 50.14   | ug/L   | 98       |
| 78) tetrachloroethene         | 4.591 | 166  | 93769    | 42.75   | ug/L   | 99       |
| 79) 2-hexanone                | 5.105 | 58   | 619488   | 207.25  | ug/L   | 99       |
| 80) 1,3-dichloropropane       | 4.879 | 76   | 239862   | 50.48   | ug/L   | 99       |
| 81) butyl acetate             | 5.031 | 56   | 210475   | 58.30   | ug/L   | 93       |
| 82) dibromochloromethane      | 4.816 | 129  | 107765   | 47.37   | ug/L   | 98       |
| 83) 1,2-dibromoethane         | 4.984 | 107  | 116225   | 49.86   | ug/L   | 99       |
| 84) n-butyl ether             | 5.246 | 57   | 933476   | 49.98   | ug/L   | 100      |
| 85) chlorobenzene             | 5.335 | 112  | 303557   | 46.55   | ug/L   | 99       |
| 86) 1,1,1,2-tetrachloroethane | 5.377 | 131  | 96054    | 48.81   | ug/L   | 97       |
| 87) ethylbenzene              | 5.346 | 91   | 606089   | 46.19   | ug/L   | 97       |
| 88) m,p-xylene                | 5.451 | 106  | 421394   | 90.68   | ug/L   | 98       |
| 89) o-xylene                  | 5.755 | 106  | 209199   | 46.77   | ug/L   | 93       |
| 90) styrene                   | 5.792 | 104  | 358684   | 48.66   | ug/L   | 96       |
| 91) bromoform                 | 5.818 | 173  | 82169    | 50.28   | ug/L   | 97       |
| 92) butyl acrylate            | 5.870 | 55   | 511218   | 60.78   | ug/L   | 99       |
| 93) isopropylbenzene          | 5.986 | 105  | 544292   | 45.28   | ug/L   | 99       |
| 94) cis-1,4-dichloro-2-butene | 6.237 | 88   | 89636    | 53.87   | ug/L   | 94       |
| 97) bromobenzene              | 6.279 | 156  | 107390   | 48.66   | ug/L   | 92       |
| 98) 1,1,2,2-tetrachloroethane | 6.342 | 83   | 201872   | 55.98   | ug/L   | 98       |
| 99) trans-1,4-dichloro-2-b... | 6.478 | 53   | 114441   | 56.63   | ug/L   | 97       |
| 100) 1,2,3-trichloropropane   | 6.447 | 110  | 58552    | 55.80   | ug/L   | 96       |
| 101) n-propylbenzene          | 6.295 | 91   | 703563   | 49.28   | ug/L   | 100      |
| 102) 2-chlorotoluene          | 6.416 | 126  | 110913   | 48.30   | ug/L   | 94       |
| 103) 4-chlorotoluene          | 6.541 | 91   | 432476   | 50.01   | ug/L   | 96       |
| 104) 1,3,5-trimethylbenzene   | 6.442 | 105  | 453908   | 48.68   | ug/L   | 100      |
| 105) tert-butylbenzene        | 6.688 | 119  | 358247   | 47.89   | ug/L   | 94       |

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\renee\5.November\11-03-22\v1k38\  
 Data File : 1k01228.d  
 Acq On : 2 Nov 2022 10:08 am  
 Operator : taylors  
 Sample : bs Inst : GCMS K  
 Misc : MS63534,V1K0038,5,,,,,1  
 ALS Vial : 7 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1K11.M  
 Quant Results File: M1K11.RES  
 Quant Time: Nov 03 00:28:01 2022  
 Quant Title : SW-846 Method 8260D, column Rtx-VMS 20m x 0.18 id x 1.0 um  
 QLast Update : Mon Oct 17 15:11:19 2022  
 Response via : Initial Calibration

|      | Compound                  | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|------|---------------------------|-------|------|----------|-------|--------|----------|
| 106) | 1,2,4-trimethylbenzene    | 6.746 | 105  | 470840   | 49.70 | ug/L   | 98       |
| 107) | sec-butylbenzene          | 6.824 | 105  | 572500   | 47.90 | ug/L   | 96       |
| 108) | 1,3-dichlorobenzene       | 6.992 | 146  | 207294   | 45.68 | ug/L   | 96       |
| 109) | p-isopropyltoluene        | 6.935 | 119  | 443234   | 48.45 | ug/L   | 96       |
| 110) | 1,4-dichlorobenzene       | 7.055 | 146  | 208692   | 46.37 | ug/L   | 96       |
| 111) | 1,2-dichlorobenzene       | 7.365 | 146  | 198018   | 44.73 | ug/L   | 96       |
| 112) | 1,2,3-trimethylbenzene    | 7.071 | 105  | 482736   | 48.88 | ug/L   | 97       |
| 113) | n-butylbenzene            | 7.244 | 92   | 296293   | 50.81 | ug/L # | 66       |
| 114) | 1,2-dibromo-3-chloropr... | 7.920 | 157  | 51671    | 51.29 | ug/L   | 82       |
| 115) | 1,3,5-trichlorobenzene    | 7.947 | 180  | 147775   | 45.00 | ug/L   | 96       |
| 116) | 1,2,4-trichlorobenzene    | 8.376 | 180  | 132706   | 48.02 | ug/L   | 97       |
| 117) | hexachlorobutadiene       | 8.361 | 225  | 51024    | 42.84 | ug/L   | 94       |
| 118) | naphthalene               | 8.591 | 128  | 535731   | 49.36 | ug/L   | 99       |
| 119) | 1,2,3-trichlorobenzene    | 8.712 | 180  | 129298   | 47.83 | ug/L   | 96       |
| 120) | hexachloroethane          | 7.349 | 119  | 73871    | 47.71 | ug/L   | 97       |
| 121) | benzyl chloride           | 7.239 | 126  | 72371    | 63.52 | ug/L   | 96       |
| 122) | 2-methylnaphthalene       | 9.252 | 142  | 122514   | 23.90 | ug/L   | 96       |

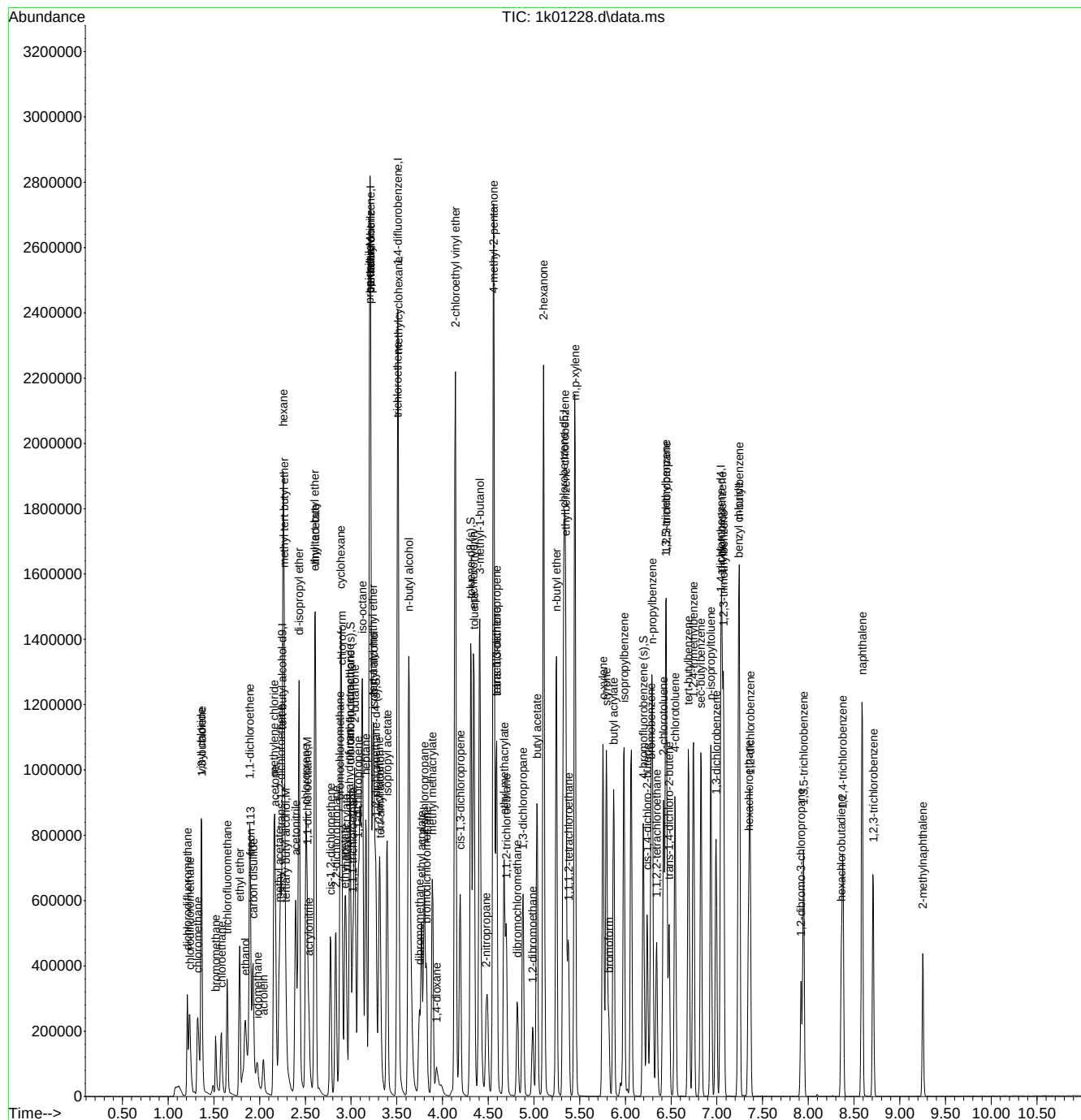
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Quantitation Report (QT Reviewed)

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Data File : 1k01228.d
Acq On    : 2 Nov 2022 10:08 am
Operator  : taylors
Sample    : bs
Misc      : MS63534,V1K0038,5,,,,1
ALS Vial  : 7 Sample Multiplier: 1
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Inst : GCMS K

Quant Method : C:\MSDCHEM\1\METHODS\M1K11.M  
Quant Results File: M1K11.RES  
Quant Time: Nov 03 00:28:01 2022  
Quant Title : SW-846 Method 8260D, column Rtx-VMS 20m x 0.18 id x 1.0 um  
QLast Update : Mon Oct 17 15:11:19 2022  
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number:

V1K38-BS

Method:

SW846 8260D

Lab FileID:

1K01228.D

Analyst approved:

11/03/22 01:10 Renee Cofreros

Injection Time:

11/02/22 10:08

Supervisor approved:

11/03/22 14:49 MoHui Huang

| Parameter    | CAS     | Sig# | R.T.<br>(min.) | Reason           |
|--------------|---------|------|----------------|------------------|
| Acetonitrile | 75-05-8 |      | 2.39           | Overlapping peak |

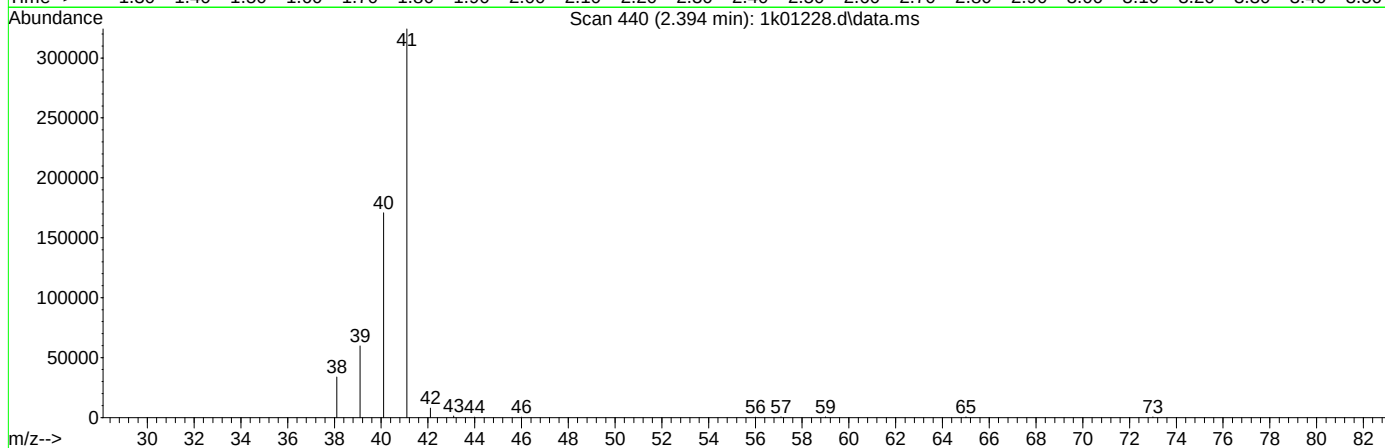
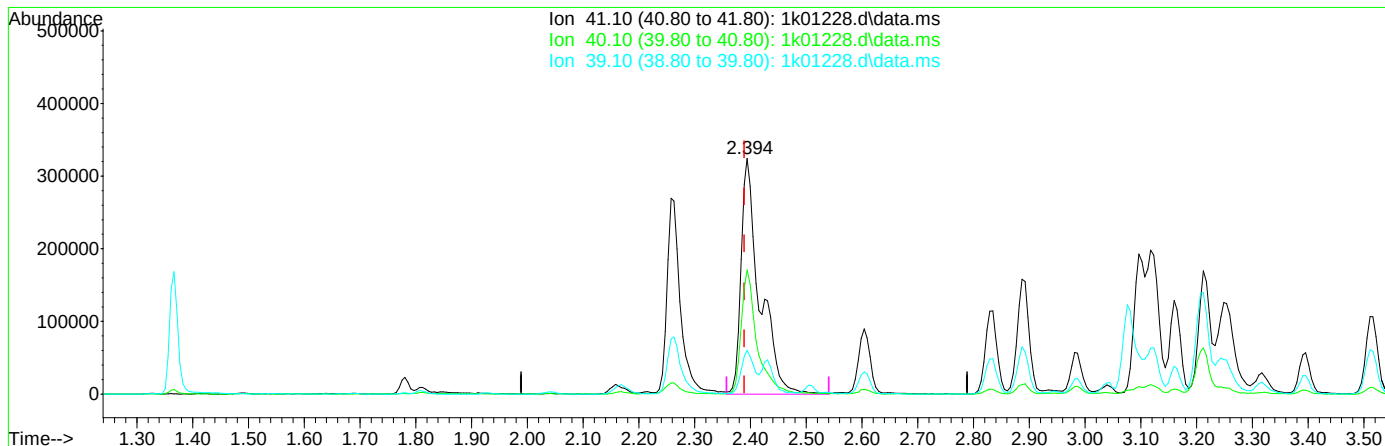
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7

## Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\renee\5.November\11-03-22\v1k38\  
Data File : 1k01228.d  
Acq On : 2 Nov 2022 10:08 am  
Operator : taylors  
Sample : bs  
Misc : MS63534,V1K0038,5,,,,,1  
ALS Vial : 7 Sample Multiplier: 1

Inst : GCMS K

Quant Method : C:\MSDCHEM\1\METHODS\M1K11.M  
Quant Results File: M1K11.RES  
Quant Time: Nov 02 10:19:18 2022  
Quant Title : SW-846 Method 8260D, column Rtx-VMS 20m x 0.18 id x 1.0 um  
QLast Update : Mon Oct 17 15:11:19 2022  
Response via : Initial Calibration



TIC: 1k01228.d\data.ms

(19) acetonitrile

2.394min (+0.005) 500.03ug/L

response 751838

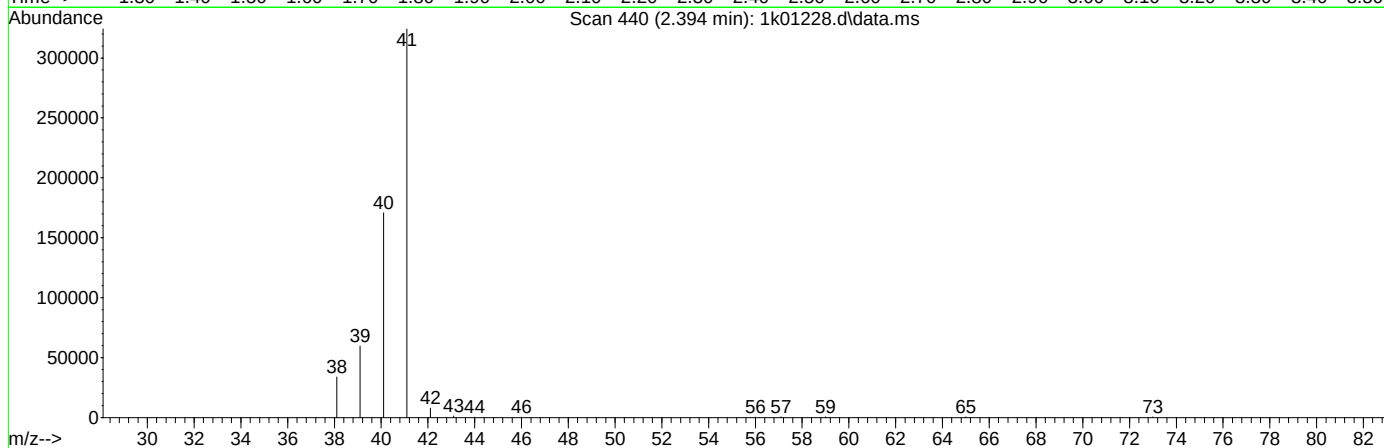
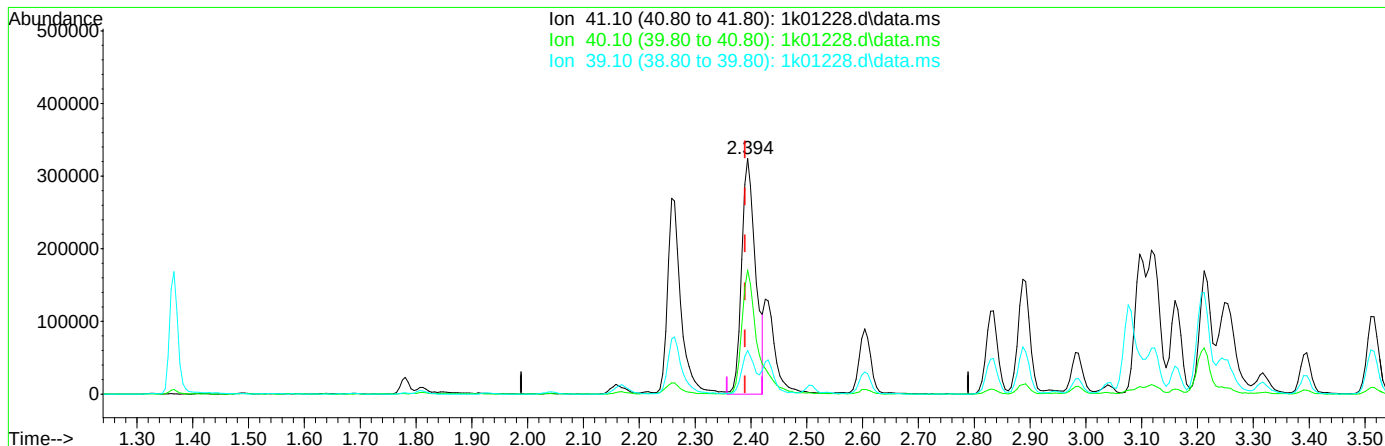
| Ion   | Exp%  | Act%  |
|-------|-------|-------|
| 41.10 | 100   | 100   |
| 40.10 | 52.20 | 52.66 |
| 39.10 | 18.90 | 18.21 |
| 0.00  | 0.00  | 0.00  |

## Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\renee\5.November\11-03-22\v1k38\  
Data File : 1k01228.d  
Acq On : 2 Nov 2022 10:08 am  
Operator : taylors  
Sample : bs  
Misc : MS63534,V1K0038,5,,,,,1  
ALS Vial : 7 Sample Multiplier: 1

Inst : GCMS K

Quant Method : C:\MSDCHEM\1\METHODS\M1K11.M  
Quant Results File: M1K11.RES  
Quant Time: Nov 02 10:19:18 2022  
Quant Title : SW-846 Method 8260D, column Rtx-VMS 20m x 0.18 id x 1.0 um  
QLast Update : Mon Oct 17 15:11:19 2022  
Response via : Initial Calibration



TIC: 1k01228.d\data.ms

(19) acetonitrile

2.394min (+0.005) 377.65ug/L m

response 567821

| Ion   | Exp%  | Act%  |
|-------|-------|-------|
| 41.10 | 100   | 100   |
| 40.10 | 52.20 | 52.64 |
| 39.10 | 18.90 | 18.46 |
| 0.00  | 0.00  | 0.00  |



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\Angieg\November 2022\nov. 3, 2022\v1u2018\  
 Data File : 1u49702.d  
 Acq On : 2 Nov 2022 12:35 am  
 Operator : edwardd  
 Sample : JD54605-5ms Inst : GCMS-U  
 Misc : MS63572,V1U2018,5,,,10  
 ALS Vial : 65 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1U2015.M  
 Quant Results File: M1U2015.RES  
 Quant Time: Nov 03 15:41:59 2022  
 Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um  
 QLast Update : Wed Nov 02 11:15:22 2022  
 Response via : Initial Calibration

| Compound                      | R.T.           | QIon | Response   | Conc    | Units | Dev(Min) |
|-------------------------------|----------------|------|------------|---------|-------|----------|
| Internal Standards            |                |      |            |         |       |          |
| 1) tert butyl alcohol-d9      | 2.061          | 65   | 289250     | 500.00  | ug/L  | 0.00     |
| 5) pentafluorobenzene         | 2.999          | 168  | 440352     | 50.00   | ug/L  | 0.00     |
| 50) 1,4-difluorobenzene       | 3.293          | 114  | 566489     | 50.00   | ug/L  | 0.00     |
| 72) chlorobenzene-d5          | 5.091          | 117  | 559667     | 50.00   | ug/L  | 0.00     |
| 95) 1,4-dichlorobenzene-d4    | 6.827          | 152  | 264037     | 50.00   | ug/L  | 0.00     |
| System Monitoring Compounds   |                |      |            |         |       |          |
| 42) dibromofluoromethane (s)  | 2.779          | 113  | 193894     | 45.38   | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 75 - 127 |      | Recovery = | 90.76%  |       |          |
| 51) 1,2-dichloroethane-d4 (s) | 3.052          | 65   | 241826     | 54.06   | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 75 - 130 |      | Recovery = | 108.12% |       |          |
| 73) toluene-d8 (s)            | 4.085          | 98   | 667303     | 47.28   | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 80 - 120 |      | Recovery = | 94.56%  |       |          |
| 96) 4-bromofluorobenzene (s)  | 5.967          | 95   | 237559     | 48.09   | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 79 - 127 |      | Recovery = | 96.18%  |       |          |
| Target Compounds              |                |      |            |         |       |          |
|                               |                |      |            |         |       | Qvalue   |
| 2) ethanol                    | 1.657          | 45   | 113114     | 5041.05 | ug/L  | 93       |
| 3) tertiary butyl alcohol     | 2.092          | 59   | 97510      | 249.20  | ug/L  | 95       |
| 4) 1,4-dioxane                | 3.707          | 88   | 40995      | 1384.12 | ug/L  | 97       |
| 6) chlorodifluoromethane      | 1.091          | 51   | 92644m     | 41.24   | ug/L  |          |
| 7) dichlorodifluoromethane    | 1.070          | 85   | 147819     | 43.60   | ug/L  | 97       |
| 8) chloromethane              | 1.169          | 50   | 107604     | 46.41   | ug/L  | 98       |
| 9) vinyl chloride             | 1.206          | 62   | 154907     | 50.31   | ug/L  | 97       |
| 10) 1,3-butadiene             | 1.211          | 39   | 102132     | 51.37   | ug/L  | 92       |
| 11) bromomethane              | 1.358          | 96   | 190949     | 65.10   | ug/L  | # 95     |
| 12) chloroethane              | 1.416          | 64   | 137574     | 58.30   | ug/L  | 99       |
| 13) trichlorofluoromethane    | 1.479          | 101  | 455935     | 57.62   | ug/L  | 99       |
| 14) ethyl ether               | 1.610          | 74   | 89286      | 52.53   | ug/L  | 97       |
| 15) acrolein                  | 1.851          | 56   | 24046      | 50.31   | ug/L  | 98       |
| 16) freon 113                 | 1.720          | 151  | 125023     | 47.44   | ug/L  | 95       |
| 17) 1,1-dichloroethene        | 1.709          | 61   | 189927     | 49.63   | ug/L  | 95       |
| 18) acetone                   | 1.977          | 58   | 46761      | 147.17  | ug/L  | # 82     |
| 19) acetonitrile              | 2.192          | 41   | 132458     | 521.09  | ug/L  | 96       |
| 20) iodomethane               | 1.783          | 142  | 97093      | 44.79   | ug/L  | 99       |
| 21) carbon disulfide          | 1.741          | 76   | 323475     | 45.99   | ug/L  | 99       |
| 22) methylene chloride        | 1.961          | 84   | 101180     | 45.58   | ug/L  | 93       |
| 23) methyl acetate            | 2.024          | 74   | 23599      | 47.24   | ug/L  | # 85     |
| 24) methyl tert butyl ether   | 2.071          | 73   | 322237     | 47.92   | ug/L  | 90       |
| 25) trans-1,2-dichloroethene  | 2.035          | 61   | 151379     | 50.89   | ug/L  | 95       |
| 26) hexane                    | 2.066          | 57   | 213842     | 44.66   | ug/L  | 98       |
| 27) di-isopropyl ether        | 2.234          | 45   | 304503     | 49.76   | ug/L  | 96       |
| 28) ethyl tert-butyl ether    | 2.402          | 59   | 318991     | 49.12   | ug/L  | 97       |
| 29) 2-butanone                | 2.831          | 72   | 75311      | 179.29  | ug/L  | 98       |
| 30) 1,1-dichloroethane        | 2.312          | 63   | 207084     | 48.55   | ug/L  | 100      |
| 31) chloroprene               | 2.302          | 53   | 168285     | 50.26   | ug/L  | 91       |
| 32) acrylonitrile             | 2.333          | 52   | 34531      | 51.04   | ug/L  | 96       |
| 33) vinyl acetate             | 2.407          | 86   | 27448      | 52.57   | ug/L  | # 64     |
| 34) ethyl acetate             | 2.727          | 70   | 13973      | 46.41   | ug/L  | 85       |
| 35) 2,2-dichloropropane       | 2.622          | 77   | 155158     | 39.93   | ug/L  | 96       |
| 36) cis-1,2-dichloroethene    | 2.564          | 96   | 124250     | 46.02   | ug/L  | 95       |
| 37) propionitrile             | 2.984          | 54   | 198781     | 506.34  | ug/L  | 99       |
| 38) methyl acrylate           | 2.737          | 85   | 26507      | 48.94   | ug/L  | # 78     |
| 39) bromochloromethane        | 2.664          | 128  | 60689      | 47.01   | ug/L  | 90       |
| 40) tetrahydrofuran           | 2.774          | 71   | 18157      | 47.59   | ug/L  | 84       |
| 41) chloroform                | 2.685          | 47   | 62457      | 60.88   | ug/L  | 95       |

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\Angieg\November 2022\nov. 3, 2022\v1u2018\  
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 Operator : edwardd  
 Sample : JD54605-5ms Inst : GCMS-U  
 Misc : MS63572,V1U2018,5,,,10  
 ALS Vial : 65 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1U2015.M  
 Quant Results File: M1U2015.RES  
 Quant Time: Nov 03 15:41:59 2022  
 Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um  
 QLast Update : Wed Nov 02 11:15:22 2022  
 Response via : Initial Calibration

| Compound                      | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|---------|--------|----------|
| 43) methacrylonitrile         | 2.999 | 67   | 60487    | 47.55   | ug/L   | 82       |
| 44) 1,1,1-trichloroethane     | 2.805 | 97   | 207907   | 46.87   | ug/L   | 97       |
| 45) cyclohexane               | 2.679 | 84   | 190717   | 52.44   | ug/L   | 99       |
| 46) 1,1-dichloropropene       | 2.863 | 75   | 163587   | 47.00   | ug/L   | 97       |
| 47) carbon tetrachloride      | 2.774 | 117  | 194389   | 43.62   | ug/L   | 98       |
| 48) isobutyl alcohol          | 3.025 | 43   | 151367   | 547.91  | ug/L   | 96       |
| 49) tert-amyl alcohol         | 3.104 | 55   | 35769    | 230.99  | ug/L   | 92       |
| 52) iso-octane                | 2.910 | 57   | 359916   | 44.61   | ug/L   | 99       |
| 53) benzene                   | 2.989 | 78   | 463788   | 51.22   | ug/L   | 99       |
| 54) tert-amyl methyl ether    | 3.025 | 73   | 332698   | 53.95   | ug/L   | 98       |
| 55) heptane                   | 2.952 | 57   | 63971    | 44.32   | ug/L   | 92       |
| 56) isopropyl acetate         | 3.183 | 87   | 31359    | 51.03   | ug/L # | 84       |
| 57) 1,2-dichloroethane        | 3.088 | 62   | 165040   | 52.21   | ug/L   | 98       |
| 58) n-butyl alcohol           | 3.419 | 56   | 208497   | 2519.95 | ug/L   | 100      |
| 59) ethyl acrylate            | 3.555 | 55   | 167912   | 53.06   | ug/L   | 97       |
| 60) trichloroethene           | 3.288 | 130  | 144206   | 50.55   | ug/L   | 98       |
| 61) 2-nitropropane            | 4.247 | 41   | 43540    | 53.41   | ug/L   | 99       |
| 63) methyl methacrylate       | 3.670 | 100  | 36353    | 51.13   | ug/L   | 92       |
| 64) 1,2-dichloropropane       | 3.576 | 63   | 108990   | 53.16   | ug/L   | 100      |
| 65) methylcyclohexane         | 3.293 | 55   | 136556   | 47.38   | ug/L   | 95       |
| 66) dibromomethane            | 3.518 | 93   | 86345    | 51.78   | ug/L   | 97       |
| 67) bromodichloromethane      | 3.602 | 83   | 177330   | 51.32   | ug/L   | 98       |
| 68) epichlorohydrin           | 4.111 | 57   | 68738    | 236.19  | ug/L   | 99       |
| 69) cis-1,3-dichloropropene   | 3.964 | 75   | 174050   | 48.67   | ug/L   | 94       |
| 70) 4-methyl-2-pentanone      | 4.336 | 58   | 222306   | 210.63  | ug/L   | 99       |
| 71) 3-methyl-1-butanol        | 4.189 | 70   | 87565    | 1074.16 | ug/L   | 96       |
| 74) toluene                   | 4.116 | 92   | 297746   | 48.21   | ug/L   | 99       |
| 75) ethyl methacrylate        | 4.452 | 69   | 155747   | 49.77   | ug/L   | 99       |
| 76) trans-1,3-dichloropropene | 4.362 | 75   | 180118   | 51.28   | ug/L   | 98       |
| 77) 1,1,2-trichloroethane     | 4.467 | 83   | 94972    | 51.71   | ug/L   | 98       |
| 78) tetrachloroethene         | 4.362 | 166  | 621292   | 197.42  | ug/L   | 97       |
| 79) 2-hexanone                | 4.882 | 58   | 226213   | 194.58  | ug/L   | 99       |
| 80) 1,3-dichloropropane       | 4.651 | 76   | 172651   | 49.07   | ug/L   | 99       |
| 81) butyl acetate             | 4.813 | 56   | 74913    | 49.77   | ug/L   | 94       |
| 82) dibromochloromethane      | 4.588 | 129  | 144875   | 48.85   | ug/L   | 98       |
| 83) 1,2-dibromoethane         | 4.750 | 107  | 125520   | 47.55   | ug/L   | 96       |
| 84) n-butyl ether             | 5.028 | 57   | 417306   | 49.08   | ug/L   | 99       |
| 85) chlorobenzene             | 5.102 | 112  | 361318   | 50.16   | ug/L   | 96       |
| 86) 1,1,1,2-tetrachloroethane | 5.144 | 131  | 135386   | 52.11   | ug/L   | 98       |
| 87) ethylbenzene              | 5.117 | 91   | 608895   | 50.42   | ug/L   | 98       |
| 88) m,p-xylene                | 5.222 | 106  | 466032   | 106.42  | ug/L   | 97       |
| 89) o-xylene                  | 5.526 | 106  | 208367   | 50.04   | ug/L   | 98       |
| 90) styrene                   | 5.563 | 104  | 357894   | 52.47   | ug/L   | 99       |
| 91) bromoform                 | 5.584 | 173  | 117066   | 50.20   | ug/L   | 96       |
| 92) butyl acrylate            | 5.652 | 55   | 210952   | 52.05   | ug/L   | 97       |
| 93) isopropylbenzene          | 5.757 | 105  | 578151   | 50.75   | ug/L   | 99       |
| 94) cis-1,4-dichloro-2-butene | 6.014 | 88   | 51397    | 41.41   | ug/L # | 87       |
| 97) bromobenzene              | 6.045 | 156  | 151092   | 50.04   | ug/L   | 93       |
| 98) 1,1,2,2-tetrachloroethane | 6.114 | 83   | 164457   | 49.04   | ug/L   | 100      |
| 99) trans-1,4-dichloro-2-b... | 6.250 | 53   | 33630    | 43.42   | ug/L   | 97       |
| 100) 1,2,3-trichloropropane   | 6.218 | 110  | 55134    | 53.14   | ug/L   | 97       |
| 101) n-propylbenzene          | 6.072 | 91   | 660734   | 50.75   | ug/L   | 98       |
| 102) 2-chlorotoluene          | 6.187 | 126  | 137596   | 49.14   | ug/L   | 96       |
| 103) 4-chlorotoluene          | 6.313 | 91   | 383003   | 50.46   | ug/L   | 96       |
| 104) 1,3,5-trimethylbenzene   | 6.224 | 105  | 442366   | 50.80   | ug/L   | 98       |
| 105) tert-butylbenzene        | 6.465 | 119  | 386679   | 49.34   | ug/L   | 96       |
| 106) 1,2,4-trimethylbenzene   | 6.523 | 105  | 437593   | 51.76   | ug/L   | 99       |

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\Angieg\November 2022\nov. 3, 2022\v1u2018\  
Data File : 1u49702.d  
Acq On : 2 Nov 2022 12:35 am  
Operator : edwardd  
Sample : JD54605-5ms Inst : GCMS-U  
Misc : MS63572,V1U2018,5,,,,10  
ALS Vial : 65 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1U2015.M  
Quant Results File: M1U2015.RES  
Quant Time: Nov 03 15:41:59 2022  
Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um  
QLast Update : Wed Nov 02 11:15:22 2022  
Response via : Initial Calibration

|      | Compound                  | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|------|---------------------------|-------|------|----------|-------|-------|----------|
| 107) | sec-butylbenzene          | 6.606 | 105  | 570964   | 50.19 | ug/L  | 99       |
| 108) | 1,3-dichlorobenzene       | 6.769 | 146  | 269211   | 50.06 | ug/L  | 99       |
| 109) | p-isopropyltoluene        | 6.722 | 119  | 471365   | 51.05 | ug/L  | 98       |
| 110) | 1,4-dichlorobenzene       | 6.837 | 146  | 270339   | 50.15 | ug/L  | 97       |
| 111) | 1,2-dichlorobenzene       | 7.152 | 146  | 242538   | 49.28 | ug/L  | 97       |
| 112) | 1,2,3-trimethylbenzene    | 6.858 | 105  | 441183   | 52.94 | ug/L  | 99       |
| 113) | n-butylbenzene            | 7.042 | 92   | 234148   | 51.20 | ug/L  | 98       |
| 114) | 1,2-dibromo-3-chloropr... | 7.723 | 157  | 41961    | 44.23 | ug/L  | 92       |
| 115) | 1,3,5-trichlorobenzene    | 7.755 | 180  | 159381   | 46.58 | ug/L  | 99       |
| 116) | 1,2,4-trichlorobenzene    | 8.190 | 180  | 127817   | 45.43 | ug/L  | 99       |
| 117) | hexachlorobutadiene       | 8.179 | 225  | 61411    | 44.73 | ug/L  | 99       |
| 118) | naphthalene               | 8.405 | 128  | 396703   | 46.97 | ug/L  | 99       |
| 119) | 1,2,3-trichlorobenzene    | 8.525 | 180  | 126357   | 45.23 | ug/L  | 100      |
| 120) | hexachloroethane          | 7.136 | 119  | 88555    | 53.25 | ug/L  | 97       |
| 121) | benzyl chloride           | 7.026 | 126  | 46960    | 40.97 | ug/L  | 99       |
| 122) | 2-methylnaphthalene       | 9.081 | 142  | 72818    | 24.44 | ug/L  | 96       |

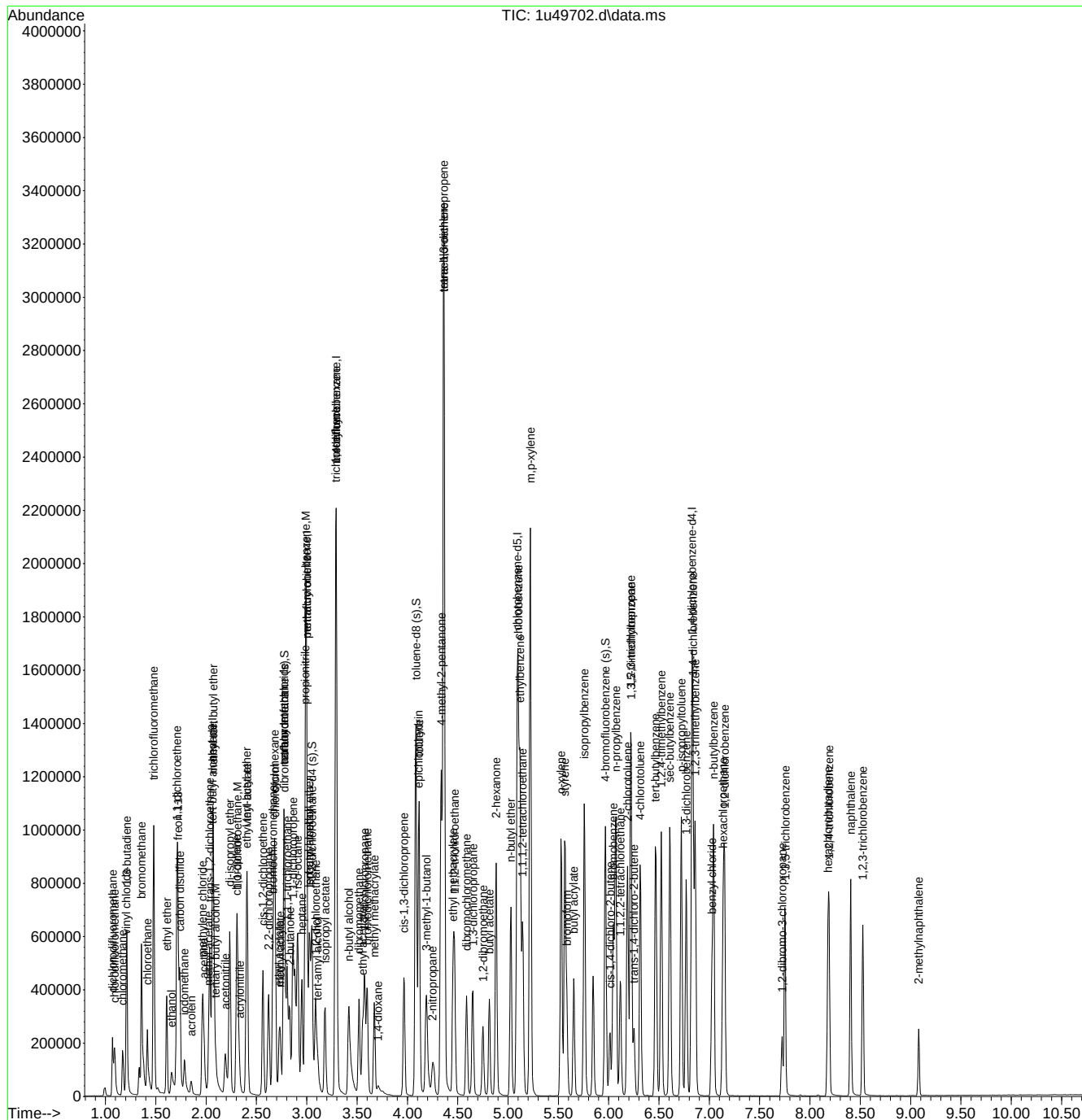
(#) = qualifier out of range (m) = manual integration (+) = signals summed

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\Angieg\November 2022\nov. 3, 2022\v1u2018\  
Data File : 1u49702.d  
Acq On : 2 Nov 2022 12:35 am  
Operator : edwardd  
Sample : JD54605-5ms  
Misc : MS63572,V1U2018,5,,,,,10  
ALS Vial : 65 Sample Multiplier: 1

Inst : GCMS-U

Quant Method : C:\MSDCHEM\1\METHODS\M1U2015.M  
Quant Results File: M1U2015.RES  
Quant Time: Nov 03 15:41:59 2022  
Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um  
QLast Update : Wed Nov 02 11:15:22 2022  
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number: JD54605-5MS

Method: SW846 8260D

Lab FileID: 1U49702.D

Analyst approved: 11/03/22 05:05 Angie Gervacio

Injection Time: 11/02/22 00:35

Supervisor approved: 11/03/22 18:01 Mei Chen

| Parameter             | CAS     | Sig# | R.T.<br>(min.) | Reason           |
|-----------------------|---------|------|----------------|------------------|
| Chlorodifluoromethane | 75-45-6 |      | 1.09           | Overlapping peak |

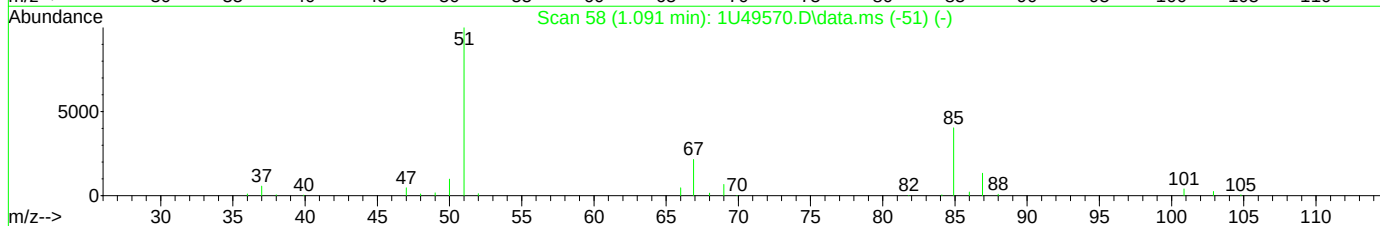
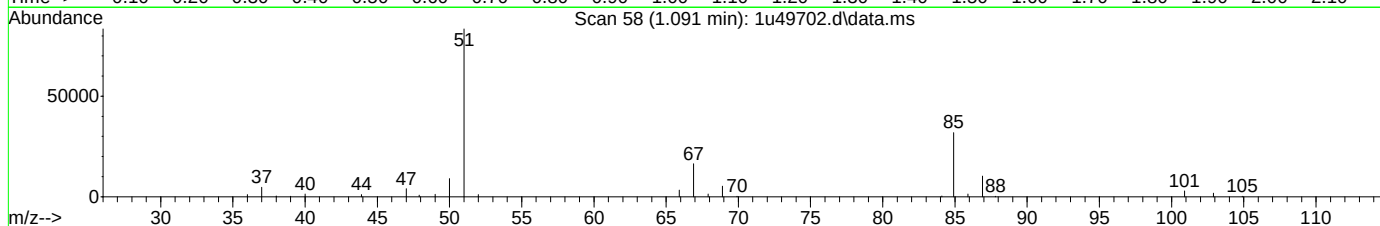
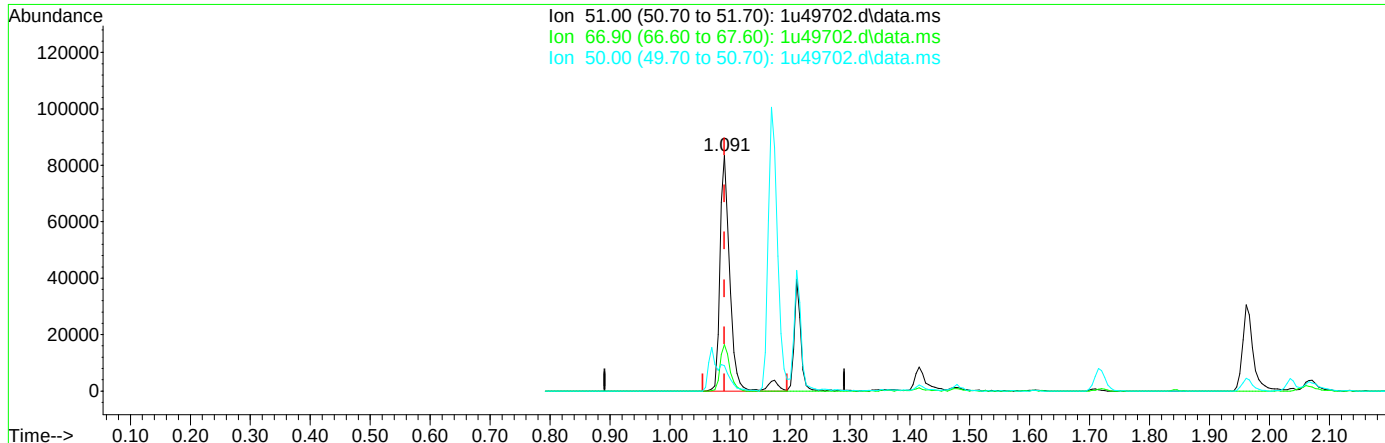
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7

## Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\Angieg\November 2022\nov. 3, 2022\v1u2018\  
Data File : 1u49702.d  
Acq On : 2 Nov 2022 12:35 am  
Operator : edwardd  
Sample : JD54605-5ms  
Misc : MS63572,V1U2018,5,,,,,10  
ALS Vial : 65 Sample Multiplier: 1

Inst : GCMS-U

Quant Method : C:\MSDCHEM\1\METHODS\M1U2015.M  
Quant Results File: M1U2015.RES  
Quant Time: Nov 02 23:22:39 2022  
Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um  
QLast Update : Wed Nov 02 11:15:22 2022  
Response via : Initial Calibration



TIC: 1u49702.d\data.ms

(6) chlorodifluoromethane

1.091min (-0.000) 43.30ug/L

response 97262

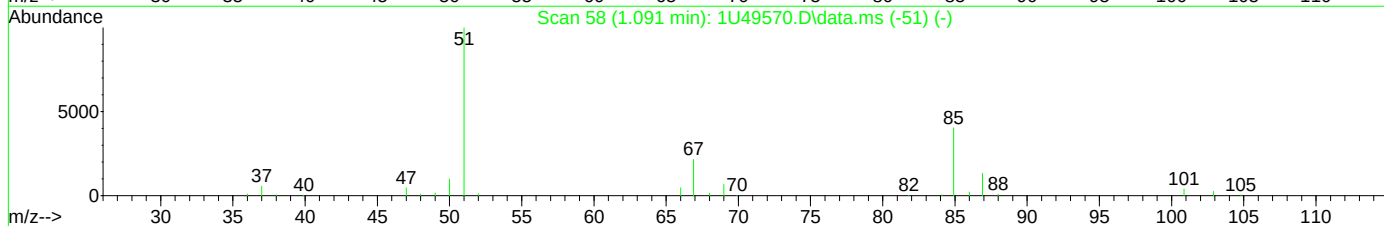
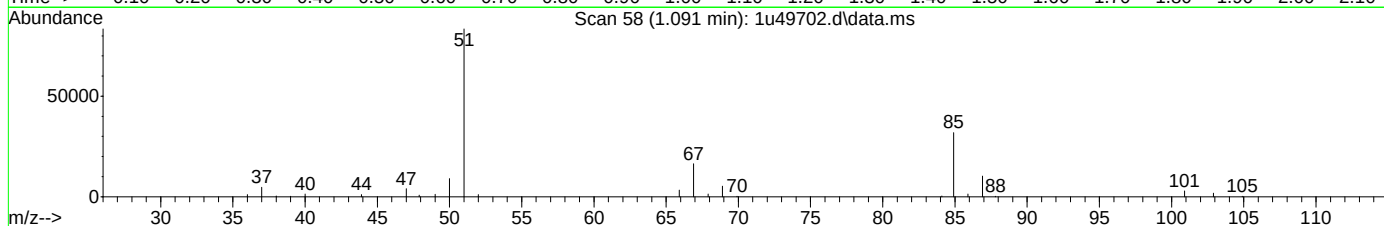
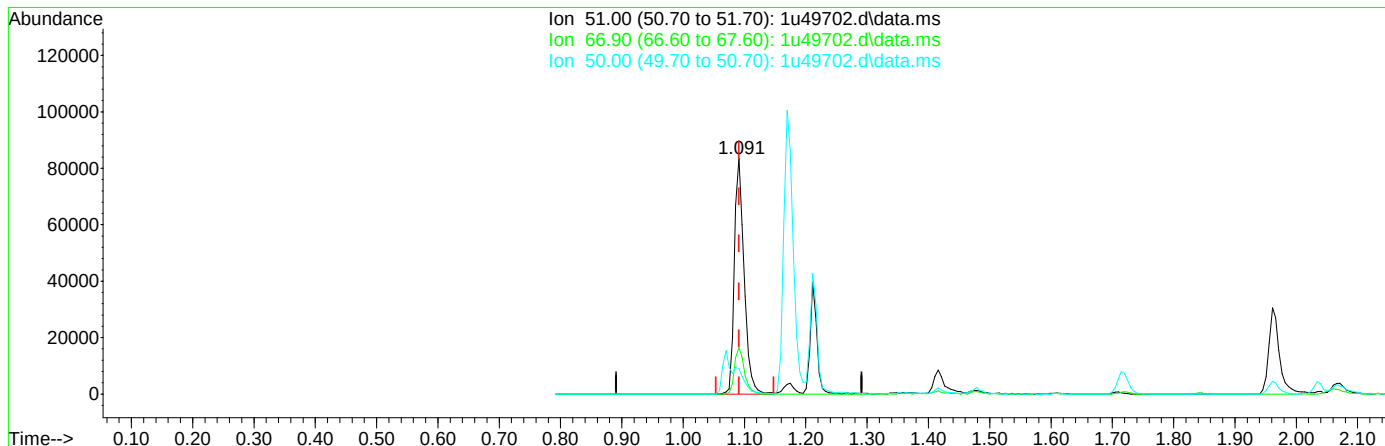
| Ion   | Exp%  | Act%  |
|-------|-------|-------|
| 51.00 | 100   | 100   |
| 66.90 | 21.40 | 19.68 |
| 50.00 | 9.80  | 10.76 |
| 0.00  | 0.00  | 0.00  |

## Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\Angieg\November 2022\nov. 3, 2022\v1u2018\  
Data File : 1u49702.d  
Acq On : 2 Nov 2022 12:35 am  
Operator : edwardd  
Sample : JD54605-5ms  
Misc : MS63572,V1U2018,5,,,,,10  
ALS Vial : 65 Sample Multiplier: 1

Inst : GCMS-U

Quant Method : C:\MSDCHEM\1\METHODS\M1U2015.M  
Quant Results File: M1U2015.RES  
Quant Time: Nov 02 23:22:39 2022  
Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um  
QLast Update : Wed Nov 02 11:15:22 2022  
Response via : Initial Calibration



TIC: 1u49702.d\data.ms

(6) chlorodifluoromethane

1.091min (-0.000) 41.24ug/L m

response 92644

| Ion   | Exp%  | Act%  |
|-------|-------|-------|
| 51.00 | 100   | 100   |
| 66.90 | 21.40 | 19.68 |
| 50.00 | 9.80  | 10.76 |
| 0.00  | 0.00  | 0.00  |

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\Angieg\November 2022\nov. 3, 2022\v2u2018\  
 Data File : 2u49703.d  
 Acq On : 2 Nov 2022 12:49 am  
 Operator : edwardd  
 Sample : JD54605-4ms Inst : GCMS-U  
 Misc : MS63572,V2U2018,5,,,4  
 ALS Vial : 66 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2U2015.M  
 Quant Results File: M2U2015.RES  
 Quant Time: Nov 03 18:14:36 2022  
 Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um  
 QLast Update : Wed Nov 02 12:34:58 2022  
 Response via : Initial Calibration

| Compound                      | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|---------|--------|----------|
| Internal Standards            |                |      |            |         |        |          |
| 1) tert butyl alcohol-d9      | 2.061          | 65   | 324836     | 500.00  | ug/L   | 0.00     |
| 5) pentafluorobenzene         | 2.999          | 168  | 396965     | 50.00   | ug/L   | 0.00     |
| 50) 1,4-difluorobenzene       | 3.293          | 114  | 524405     | 50.00   | ug/L   | 0.00     |
| 72) chlorobenzene-d5          | 5.091          | 117  | 528242     | 50.00   | ug/L   | 0.00     |
| 95) 1,4-dichlorobenzene-d4    | 6.827          | 152  | 285421     | 50.00   | ug/L   | 0.00     |
| System Monitoring Compounds   |                |      |            |         |        |          |
| 42) dibromofluoromethane (s)  | 2.779          | 113  | 176636     | 45.69   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 127 |      | Recovery = | 91.38%  |        |          |
| 51) 1,2-dichloroethane-d4 (s) | 3.052          | 65   | 219753     | 52.92   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 130 |      | Recovery = | 105.84% |        |          |
| 73) toluene-d8 (s)            | 4.085          | 98   | 613556     | 47.10   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 80 - 120 |      | Recovery = | 94.20%  |        |          |
| 96) 4-bromofluorobenzene (s)  | 5.967          | 95   | 243856     | 47.89   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 79 - 127 |      | Recovery = | 95.78%  |        |          |
| Target Compounds              |                |      |            |         |        |          |
|                               |                |      |            |         |        | Qvalue   |
| 2) ethanol                    | 1.662          | 45   | 156562     | 5487.17 | ug/L   | 99       |
| 3) tertiary butyl alcohol     | 2.097          | 59   | 112959     | 257.43  | ug/L   | 97       |
| 4) 1,4-dioxane                | 3.712          | 88   | 50848      | 1380.16 | ug/L   | 90       |
| 6) chlorodifluoromethane      | 1.091          | 51   | 105627     | 43.97   | ug/L   | 94       |
| 7) dichlorodifluoromethane    | 1.070          | 85   | 153884     | 44.58   | ug/L   | 98       |
| 8) chloromethane              | 1.169          | 50   | 116335     | 46.73   | ug/L   | 100      |
| 9) vinyl chloride             | 1.206          | 62   | 147011     | 50.80   | ug/L   | 100      |
| 10) 1,3-butadiene             | 1.217          | 39   | 84217      | 50.59   | ug/L   | 97       |
| 11) bromomethane              | 1.358          | 96   | 157450     | 67.31   | ug/L # | 97       |
| 12) chloroethane              | 1.416          | 64   | 135675     | 58.12   | ug/L   | 99       |
| 13) trichlorofluoromethane    | 1.479          | 101  | 409772     | 57.86   | ug/L   | 100      |
| 14) ethyl ether               | 1.610          | 74   | 81608      | 53.92   | ug/L   | 97       |
| 15) acrolein                  | 1.856          | 56   | 23397      | 48.89   | ug/L   | 97       |
| 16) freon 113                 | 1.720          | 151  | 111520     | 49.48   | ug/L   | 98       |
| 17) 1,1-dichloroethene        | 1.710          | 61   | 168991     | 50.53   | ug/L   | 99       |
| 18) acetone                   | 1.977          | 58   | 49776      | 155.92  | ug/L   | 89       |
| 19) acetonitrile              | 2.192          | 41   | 148892     | 479.25  | ug/L   | 99       |
| 20) iodomethane               | 1.788          | 142  | 82417      | 35.11   | ug/L   | 96       |
| 21) carbon disulfide          | 1.741          | 76   | 285415     | 46.28   | ug/L   | 94       |
| 22) methylene chloride        | 1.966          | 84   | 92389      | 42.81   | ug/L   | 93       |
| 23) methyl acetate            | 2.024          | 74   | 21882      | 43.29   | ug/L # | 73       |
| 24) methyl tert butyl ether   | 2.076          | 73   | 280279     | 45.66   | ug/L   | 97       |
| 25) trans-1,2-dichloroethene  | 2.035          | 61   | 137896     | 51.00   | ug/L   | 92       |
| 26) hexane                    | 2.066          | 57   | 196125     | 45.13   | ug/L   | 98       |
| 27) di-isopropyl ether        | 2.234          | 45   | 267521     | 48.02   | ug/L   | 97       |
| 28) ethyl tert-butyl ether    | 2.407          | 59   | 283450     | 48.83   | ug/L   | 97       |
| 29) 2-butanone                | 2.832          | 72   | 74707      | 184.25  | ug/L # | 84       |
| 30) 1,1-dichloroethane        | 2.318          | 63   | 182663     | 47.81   | ug/L   | 99       |
| 31) chloroprene               | 2.307          | 53   | 149508     | 48.76   | ug/L   | 98       |
| 32) acrylonitrile             | 2.333          | 52   | 36016      | 54.80   | ug/L   | 99       |
| 33) vinyl acetate             | 2.412          | 86   | 24288      | 52.18   | ug/L # | 76       |
| 34) ethyl acetate             | 2.727          | 70   | 13245      | 46.37   | ug/L   | 87       |
| 35) 2,2-dichloropropane       | 2.622          | 77   | 146865     | 42.38   | ug/L   | 99       |
| 36) cis-1,2-dichloroethene    | 2.564          | 96   | 118272     | 48.33   | ug/L   | 94       |
| 37) propionitrile             | 2.989          | 54   | 215839     | 524.23  | ug/L   | 100      |
| 38) methyl acrylate           | 2.737          | 85   | 24006      | 51.05   | ug/L   | 97       |
| 39) bromochloromethane        | 2.664          | 128  | 51903      | 43.82   | ug/L   | 90       |
| 40) tetrahydrofuran           | 2.774          | 71   | 17881      | 47.70   | ug/L   | 92       |
| 41) chloroform                | 2.685          | 47   | 55180      | 47.31   | ug/L   | 99       |



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\Angieg\November 2022\nov. 3, 2022\v2u2018\  
 Data File : 2u49703.d  
 Acq On : 2 Nov 2022 12:49 am  
 Operator : edwardd  
 Sample : JD54605-4ms Inst : GCMS-U  
 Misc : MS63572,V2U2018,5,,,,,4  
 ALS Vial : 66 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2U2015.M  
 Quant Results File: M2U2015.RES  
 Quant Time: Nov 03 18:14:36 2022  
 Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um  
 QLast Update : Wed Nov 02 12:34:58 2022  
 Response via : Initial Calibration

| Compound                      | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|-------|------|----------|---------|-------|----------|
| 43) methacrylonitrile         | 2.999 | 67   | 58428    | 51.71   | ug/L  | 100      |
| 44) 1,1,1-trichloroethane     | 2.805 | 97   | 187217   | 47.18   | ug/L  | 96       |
| 45) cyclohexane               | 2.679 | 84   | 169150   | 50.86   | ug/L  | 93       |
| 46) 1,1-dichloropropene       | 2.863 | 75   | 148048   | 48.55   | ug/L  | 98       |
| 47) carbon tetrachloride      | 2.774 | 117  | 180195   | 44.77   | ug/L  | 97       |
| 48) isobutyl alcohol          | 3.031 | 43   | 153431   | 552.25  | ug/L  | 93       |
| 49) tert-amyl alcohol         | 3.104 | 55   | 38882    | 263.65  | ug/L  | 91       |
| 52) iso-octane                | 2.910 | 57   | 309352   | 41.93   | ug/L  | 97       |
| 53) benzene                   | 2.989 | 78   | 416628   | 50.04   | ug/L  | 99       |
| 54) tert-amyl methyl ether    | 3.026 | 73   | 304914   | 51.18   | ug/L  | 99       |
| 55) heptane                   | 2.952 | 57   | 57917    | 45.44   | ug/L  | 98       |
| 56) isopropyl acetate         | 3.183 | 87   | 29876    | 51.79   | ug/L  | 96       |
| 57) 1,2-dichloroethane        | 3.088 | 62   | 148948   | 51.03   | ug/L  | 97       |
| 58) n-butyl alcohol           | 3.419 | 56   | 250266   | 2634.14 | ug/L  | 99       |
| 59) ethyl acrylate            | 3.555 | 55   | 159583   | 51.23   | ug/L  | 98       |
| 60) trichloroethene           | 3.288 | 130  | 189476   | 73.34   | ug/L  | 99       |
| 61) 2-nitropropane            | 4.247 | 41   | 44269    | 53.83   | ug/L  | 95       |
| 63) methyl methacrylate       | 3.670 | 100  | 35269    | 52.17   | ug/L  | 93       |
| 64) 1,2-dichloropropane       | 3.576 | 63   | 99948    | 53.47   | ug/L  | 99       |
| 65) methylcyclohexane         | 3.293 | 55   | 123638   | 46.58   | ug/L  | 98       |
| 66) dibromomethane            | 3.518 | 93   | 79765    | 50.08   | ug/L  | 97       |
| 67) bromodichloromethane      | 3.602 | 83   | 162403   | 50.57   | ug/L  | 99       |
| 68) epichlorohydrin           | 4.111 | 57   | 71094    | 218.86  | ug/L  | 98       |
| 69) cis-1,3-dichloropropene   | 3.964 | 75   | 159936   | 48.67   | ug/L  | 93       |
| 70) 4-methyl-2-pentanone      | 4.336 | 58   | 221666   | 215.91  | ug/L  | 98       |
| 71) 3-methyl-1-butanol        | 4.189 | 70   | 102728   | 1072.54 | ug/L  | 97       |
| 74) toluene                   | 4.116 | 92   | 277573   | 49.69   | ug/L  | 100      |
| 75) ethyl methacrylate        | 4.457 | 69   | 144892   | 50.37   | ug/L  | 98       |
| 76) trans-1,3-dichloropropene | 4.362 | 75   | 167489   | 51.63   | ug/L  | 99       |
| 77) 1,1,2-trichloroethane     | 4.467 | 83   | 87596    | 49.01   | ug/L  | 96       |
| 78) tetrachloroethene         | 4.362 | 166  | 770036   | 265.34  | ug/L  | 96       |
| 79) 2-hexanone                | 4.882 | 58   | 233083   | 198.06  | ug/L  | 95       |
| 80) 1,3-dichloropropane       | 4.651 | 76   | 161023   | 49.28   | ug/L  | 99       |
| 81) butyl acetate             | 4.813 | 56   | 72278    | 49.03   | ug/L  | 97       |
| 82) dibromochloromethane      | 4.588 | 129  | 134399   | 47.48   | ug/L  | 99       |
| 83) 1,2-dibromoethane         | 4.750 | 107  | 118660   | 48.37   | ug/L  | 99       |
| 84) n-butyl ether             | 5.028 | 57   | 407075   | 51.86   | ug/L  | 99       |
| 85) chlorobenzene             | 5.107 | 112  | 342499   | 51.47   | ug/L  | 97       |
| 86) 1,1,1,2-tetrachloroethane | 5.144 | 131  | 126735   | 52.96   | ug/L  | 98       |
| 87) ethylbenzene              | 5.123 | 91   | 579133   | 50.79   | ug/L  | 98       |
| 88) m,p-xylene                | 5.222 | 106  | 453723   | 111.24  | ug/L  | 98       |
| 89) o-xylene                  | 5.526 | 106  | 206603   | 51.92   | ug/L  | 99       |
| 90) styrene                   | 5.563 | 104  | 346436   | 54.22   | ug/L  | 98       |
| 91) bromoform                 | 5.584 | 173  | 117222   | 52.52   | ug/L  | 99       |
| 92) butyl acrylate            | 5.652 | 55   | 215088   | 52.72   | ug/L  | 97       |
| 93) isopropylbenzene          | 5.757 | 105  | 577155   | 54.49   | ug/L  | 98       |
| 94) cis-1,4-dichloro-2-butene | 6.014 | 88   | 60425    | 45.75   | ug/L  | 99       |
| 97) bromobenzene              | 6.045 | 156  | 150977   | 46.68   | ug/L  | 95       |
| 98) 1,1,2,2-tetrachloroethane | 6.114 | 83   | 169794   | 48.79   | ug/L  | 97       |
| 99) trans-1,4-dichloro-2-b... | 6.250 | 53   | 38648    | 45.02   | ug/L  | 94       |
| 100) 1,2,3-trichloropropane   | 6.218 | 110  | 56857    | 49.87   | ug/L  | 99       |
| 101) n-propylbenzene          | 6.072 | 91   | 676011   | 50.99   | ug/L  | 98       |
| 102) 2-chlorotoluene          | 6.187 | 126  | 139565   | 49.10   | ug/L  | 89       |
| 103) 4-chlorotoluene          | 6.313 | 91   | 393796   | 50.42   | ug/L  | 98       |
| 104) 1,3,5-trimethylbenzene   | 6.224 | 105  | 469252   | 52.31   | ug/L  | 97       |
| 105) tert-butylbenzene        | 6.470 | 119  | 414818   | 52.10   | ug/L  | 96       |
| 106) 1,2,4-trimethylbenzene   | 6.523 | 105  | 467715   | 53.19   | ug/L  | 98       |

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\Angieg\November 2022\nov. 3, 2022\v2u2018\  
 Data File : 2u49703.d  
 Acq On : 2 Nov 2022 12:49 am  
 Operator : edwardd  
 Sample : JD54605-4ms Inst : GCMS-U  
 Misc : MS63572,V2U2018,5,,,,,4  
 ALS Vial : 66 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2U2015.M  
 Quant Results File: M2U2015.RES  
 Quant Time: Nov 03 18:14:36 2022  
 Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um  
 QLast Update : Wed Nov 02 12:34:58 2022  
 Response via : Initial Calibration

|      | Compound                  | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|------|---------------------------|-------|------|----------|-------|-------|----------|
| 107) | sec-butylbenzene          | 6.606 | 105  | 615982   | 53.05 | ug/L  | 98       |
| 108) | 1,3-dichlorobenzene       | 6.769 | 146  | 284067   | 50.08 | ug/L  | 99       |
| 109) | p-isopropyltoluene        | 6.722 | 119  | 510740   | 53.76 | ug/L  | 97       |
| 110) | 1,4-dichlorobenzene       | 6.837 | 146  | 289628   | 51.06 | ug/L  | 98       |
| 111) | 1,2-dichlorobenzene       | 7.152 | 146  | 264805   | 51.03 | ug/L  | 98       |
| 112) | 1,2,3-trimethylbenzene    | 6.858 | 105  | 474674   | 52.86 | ug/L  | 97       |
| 113) | n-butylbenzene            | 7.042 | 92   | 261679   | 54.39 | ug/L  | 99       |
| 114) | 1,2-dibromo-3-chloropr... | 7.723 | 157  | 51341    | 47.08 | ug/L  | 92       |
| 115) | 1,3,5-trichlorobenzene    | 7.749 | 180  | 180654   | 47.34 | ug/L  | 97       |
| 116) | 1,2,4-trichlorobenzene    | 8.190 | 180  | 144871   | 45.93 | ug/L  | 97       |
| 117) | hexachlorobutadiene       | 8.179 | 225  | 70222    | 45.07 | ug/L  | 98       |
| 118) | naphthalene               | 8.405 | 128  | 420810   | 47.27 | ug/L  | 100      |
| 119) | 1,2,3-trichlorobenzene    | 8.525 | 180  | 142564   | 48.14 | ug/L  | 97       |
| 120) | hexachloroethane          | 7.136 | 119  | 96886    | 55.65 | ug/L  | 95       |
| 121) | benzyl chloride           | 7.026 | 126  | 54649    | 44.82 | ug/L  | 97       |
| 122) | 2-methylnaphthalene       | 9.081 | 142  | 66335    | 22.97 | ug/L  | 98       |

(#) = qualifier out of range (m) = manual integration (+) = signals summed



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\Angieg\November 2022\nov. 3, 2022\v1u2018\  
 Data File : 1u49704.d  
 Acq On : 2 Nov 2022 1:04 am  
 Operator : edwardd  
 Sample : JD54605-5msd Inst : GCMS-U  
 Misc : MS63572,V1U2018,5,,,10  
 ALS Vial : 67 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1U2015.M

Quant Results File: M1U2015.RES

Quant Time: Nov 03 15:42:24 2022

Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um

QLast Update : Wed Nov 02 11:15:22 2022

Response via : Initial Calibration

| Compound                      | R.T.           | QIon | Response   | Conc    | Units | Dev(Min) |
|-------------------------------|----------------|------|------------|---------|-------|----------|
| Internal Standards            |                |      |            |         |       |          |
| 1) tert butyl alcohol-d9      | 2.056          | 65   | 306672     | 500.00  | ug/L  | 0.00     |
| 5) pentafluorobenzene         | 2.994          | 168  | 466306     | 50.00   | ug/L  | 0.00     |
| 50) 1,4-difluorobenzene       | 3.293          | 114  | 606379     | 50.00   | ug/L  | 0.00     |
| 72) chlorobenzene-d5          | 5.091          | 117  | 581135     | 50.00   | ug/L  | 0.00     |
| 95) 1,4-dichlorobenzene-d4    | 6.827          | 152  | 272851     | 50.00   | ug/L  | 0.00     |
| System Monitoring Compounds   |                |      |            |         |       |          |
| 42) dibromofluoromethane (s)  | 2.774          | 113  | 206875     | 45.72   | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 75 - 127 |      | Recovery = | 91.44%  |       |          |
| 51) 1,2-dichloroethane-d4 (s) | 3.052          | 65   | 248877     | 51.98   | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 75 - 130 |      | Recovery = | 103.96% |       |          |
| 73) toluene-d8 (s)            | 4.085          | 98   | 707987     | 48.30   | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 80 - 120 |      | Recovery = | 96.60%  |       |          |
| 96) 4-bromofluorobenzene (s)  | 5.967          | 95   | 251082     | 49.19   | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 79 - 127 |      | Recovery = | 98.38%  |       |          |
| Target Compounds              |                |      |            |         |       |          |
|                               |                |      |            |         |       | Qvalue   |
| 2) ethanol                    | 1.652          | 45   | 114853     | 4827.76 | ug/L  | 98       |
| 3) tertiary butyl alcohol     | 2.092          | 59   | 99693      | 240.30  | ug/L  | 99       |
| 4) 1,4-dioxane                | 3.707          | 88   | 43037      | 1370.51 | ug/L  | 95       |
| 6) chlorodifluoromethane      | 1.086          | 51   | 96383      | 40.52   | ug/L  | 99       |
| 7) dichlorodifluoromethane    | 1.065          | 85   | 164628     | 45.86   | ug/L  | 98       |
| 8) chloromethane              | 1.170          | 50   | 116263     | 47.36   | ug/L  | 97       |
| 9) vinyl chloride             | 1.201          | 62   | 166898     | 51.19   | ug/L  | 99       |
| 10) 1,3-butadiene             | 1.206          | 39   | 101692     | 48.30   | ug/L  | 94       |
| 11) bromomethane              | 1.353          | 96   | 187463     | 60.35   | ug/L  | # 95     |
| 12) chloroethane              | 1.411          | 64   | 135361     | 54.17   | ug/L  | 97       |
| 13) trichlorofluoromethane    | 1.474          | 101  | 451347     | 53.87   | ug/L  | 99       |
| 14) ethyl ether               | 1.605          | 74   | 86073      | 47.82   | ug/L  | 98       |
| 15) acrolein                  | 1.851          | 56   | 26311      | 51.98   | ug/L  | 98       |
| 16) freon 113                 | 1.715          | 151  | 124482     | 44.60   | ug/L  | 92       |
| 17) 1,1-dichloroethene        | 1.704          | 61   | 188074     | 46.41   | ug/L  | 97       |
| 18) acetone                   | 1.972          | 58   | 47996      | 142.65  | ug/L  | 87       |
| 19) acetonitrile              | 2.187          | 41   | 131877     | 489.93  | ug/L  | 99       |
| 20) iodomethane               | 1.783          | 142  | 115918     | 50.30   | ug/L  | 98       |
| 21) carbon disulfide          | 1.736          | 76   | 324161     | 43.52   | ug/L  | 99       |
| 22) methylene chloride        | 1.961          | 84   | 104256     | 44.36   | ug/L  | 94       |
| 23) methyl acetate            | 2.024          | 74   | 25321      | 47.87   | ug/L  | # 74     |
| 24) methyl tert butyl ether   | 2.071          | 73   | 332752     | 46.73   | ug/L  | 92       |
| 25) trans-1,2-dichloroethene  | 2.035          | 61   | 154909     | 49.14   | ug/L  | 99       |
| 26) hexane                    | 2.066          | 57   | 219232     | 43.24   | ug/L  | 97       |
| 27) di-isopropyl ether        | 2.234          | 45   | 305488     | 47.14   | ug/L  | 97       |
| 28) ethyl tert-butyl ether    | 2.402          | 59   | 330914     | 48.12   | ug/L  | 98       |
| 29) 2-butanone                | 2.826          | 72   | 75331      | 169.36  | ug/L  | 88       |
| 30) 1,1-dichloroethane        | 2.313          | 63   | 210505     | 46.61   | ug/L  | 99       |
| 31) chloroprene               | 2.302          | 53   | 163712     | 46.17   | ug/L  | 98       |
| 32) acrylonitrile             | 2.328          | 52   | 33804      | 47.18   | ug/L  | 99       |
| 33) vinyl acetate             | 2.407          | 86   | 28786      | 52.06   | ug/L  | 99       |
| 34) ethyl acetate             | 2.727          | 70   | 14568      | 45.69   | ug/L  | 95       |
| 35) 2,2-dichloropropane       | 2.617          | 77   | 161708     | 39.30   | ug/L  | 98       |
| 36) cis-1,2-dichloroethene    | 2.564          | 96   | 127945     | 44.75   | ug/L  | 96       |
| 37) propionitrile             | 2.984          | 54   | 201388     | 484.43  | ug/L  | 97       |
| 38) methyl acrylate           | 2.737          | 85   | 27740      | 48.37   | ug/L  | 94       |
| 39) bromochloromethane        | 2.659          | 128  | 63536      | 46.48   | ug/L  | 90       |
| 40) tetrahydrofuran           | 2.769          | 71   | 18752      | 46.41   | ug/L  | # 84     |
| 41) chloroform                | 2.685          | 47   | 61994      | 56.99   | ug/L  | 95       |

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\Angieg\November 2022\nov. 3, 2022\v1u2018\  
 Data File : 1u49704.d  
 Acq On : 2 Nov 2022 1:04 am  
 Operator : edwardd  
 Sample : JD54605-5msd Inst : GCMS-U  
 Misc : MS63572,V1U2018,5,,,,,10  
 ALS Vial : 67 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1U2015.M

Quant Results File: M1U2015.RES

Quant Time: Nov 03 15:42:24 2022

Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um

QLast Update : Wed Nov 02 11:15:22 2022

Response via : Initial Calibration

| Compound                      | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|-------|------|----------|---------|-------|----------|
| 43) methacrylonitrile         | 2.994 | 67   | 61322    | 45.52   | ug/L  | 88       |
| 44) 1,1,1-trichloroethane     | 2.800 | 97   | 216975   | 46.19   | ug/L  | 97       |
| 45) cyclohexane               | 2.674 | 84   | 205956   | 53.47   | ug/L  | 98       |
| 46) 1,1-dichloropropene       | 2.858 | 75   | 168112   | 45.61   | ug/L  | 94       |
| 47) carbon tetrachloride      | 2.769 | 117  | 215553   | 45.68   | ug/L  | 97       |
| 48) isobutyl alcohol          | 3.026 | 43   | 152137   | 520.05  | ug/L  | 99       |
| 49) tert-amyl alcohol         | 3.104 | 55   | 35659    | 217.46  | ug/L  | 97       |
| 52) iso-octane                | 2.905 | 57   | 366273   | 42.41   | ug/L  | 96       |
| 53) benzene                   | 2.989 | 78   | 469311   | 48.42   | ug/L  | 99       |
| 54) tert-amyl methyl ether    | 3.026 | 73   | 340392   | 51.57   | ug/L  | 99       |
| 55) heptane                   | 2.947 | 57   | 63308    | 40.98   | ug/L  | 94       |
| 56) isopropyl acetate         | 3.183 | 87   | 32293    | 49.09   | ug/L  | 95       |
| 57) 1,2-dichloroethane        | 3.083 | 62   | 166179   | 49.11   | ug/L  | 99       |
| 58) n-butyl alcohol           | 3.419 | 56   | 214855   | 2425.97 | ug/L  | 99       |
| 59) ethyl acrylate            | 3.550 | 55   | 167459   | 49.44   | ug/L  | 100      |
| 60) trichloroethene           | 3.288 | 130  | 146291   | 47.91   | ug/L  | 98       |
| 61) 2-nitropropane            | 4.247 | 41   | 42922    | 49.19   | ug/L  | 94       |
| 63) methyl methacrylate       | 3.670 | 100  | 37843    | 49.72   | ug/L  | 96       |
| 64) 1,2-dichloropropane       | 3.571 | 63   | 110999   | 50.57   | ug/L  | 96       |
| 65) methylcyclohexane         | 3.293 | 55   | 138550   | 44.91   | ug/L  | 98       |
| 66) dibromomethane            | 3.518 | 93   | 89464    | 50.12   | ug/L  | 99       |
| 67) bromodichloromethane      | 3.597 | 83   | 181958   | 49.19   | ug/L  | 98       |
| 68) epichlorohydrin           | 4.111 | 57   | 68704    | 220.54  | ug/L  | 97       |
| 69) cis-1,3-dichloropropene   | 3.964 | 75   | 180075   | 47.05   | ug/L  | 98       |
| 70) 4-methyl-2-pentanone      | 4.331 | 58   | 223335   | 197.69  | ug/L  | 95       |
| 71) 3-methyl-1-butanol        | 4.190 | 70   | 91021    | 1043.10 | ug/L  | 98       |
| 74) toluene                   | 4.116 | 92   | 307342   | 47.93   | ug/L  | 100      |
| 75) ethyl methacrylate        | 4.452 | 69   | 156476   | 48.16   | ug/L  | 98       |
| 76) trans-1,3-dichloropropene | 4.363 | 75   | 180231   | 49.42   | ug/L  | 98       |
| 77) 1,1,2-trichloroethane     | 4.467 | 83   | 94691    | 49.66   | ug/L  | 98       |
| 78) tetrachloroethene         | 4.363 | 166  | 642748   | 196.70  | ug/L  | 98       |
| 79) 2-hexanone                | 4.882 | 58   | 226691   | 187.79  | ug/L  | 99       |
| 80) 1,3-dichloropropane       | 4.651 | 76   | 179777   | 49.21   | ug/L  | 99       |
| 81) butyl acetate             | 4.813 | 56   | 76845    | 49.17   | ug/L  | 96       |
| 82) dibromochloromethane      | 4.588 | 129  | 149059   | 48.40   | ug/L  | 98       |
| 83) 1,2-dibromoethane         | 4.751 | 107  | 130692   | 47.68   | ug/L  | 97       |
| 84) n-butyl ether             | 5.028 | 57   | 418944   | 47.46   | ug/L  | 99       |
| 85) chlorobenzene             | 5.102 | 112  | 363450   | 48.59   | ug/L  | 97       |
| 86) 1,1,1,2-tetrachloroethane | 5.144 | 131  | 137641   | 51.02   | ug/L  | 96       |
| 87) ethylbenzene              | 5.118 | 91   | 611621   | 48.78   | ug/L  | 99       |
| 88) m,p-xylene                | 5.222 | 106  | 465964   | 102.47  | ug/L  | 98       |
| 89) o-xylene                  | 5.527 | 106  | 212004   | 49.04   | ug/L  | 98       |
| 90) styrene                   | 5.563 | 104  | 357355   | 50.45   | ug/L  | 99       |
| 91) bromoform                 | 5.584 | 173  | 120832   | 49.90   | ug/L  | 97       |
| 92) butyl acrylate            | 5.652 | 55   | 214045   | 50.86   | ug/L  | 97       |
| 93) isopropylbenzene          | 5.757 | 105  | 584342   | 49.39   | ug/L  | 99       |
| 94) cis-1,4-dichloro-2-butene | 6.009 | 88   | 52871    | 41.02   | ug/L  | 98       |
| 97) bromobenzene              | 6.046 | 156  | 153675   | 49.25   | ug/L  | 97       |
| 98) 1,1,2,2-tetrachloroethane | 6.114 | 83   | 164643   | 47.51   | ug/L  | 99       |
| 99) trans-1,4-dichloro-2-b... | 6.250 | 53   | 32893    | 41.09   | ug/L  | 88       |
| 100) 1,2,3-trichloropropane   | 6.219 | 110  | 55919    | 52.16   | ug/L  | 99       |
| 101) n-propylbenzene          | 6.072 | 91   | 660807   | 49.12   | ug/L  | 100      |
| 102) 2-chlorotoluene          | 6.187 | 126  | 139329   | 48.15   | ug/L  | 96       |
| 103) 4-chlorotoluene          | 6.313 | 91   | 382461   | 48.76   | ug/L  | 96       |
| 104) 1,3,5-trimethylbenzene   | 6.224 | 105  | 444499   | 49.40   | ug/L  | 98       |
| 105) tert-butylbenzene        | 6.465 | 119  | 393854   | 48.63   | ug/L  | 97       |
| 106) 1,2,4-trimethylbenzene   | 6.523 | 105  | 437546   | 50.08   | ug/L  | 99       |

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\Angieg\November 2022\nov. 3, 2022\v1u2018\  
 Data File : 1u49704.d  
 Acq On : 2 Nov 2022 1:04 am  
 Operator : edwardd  
 Sample : JD54605-5msd Inst : GCMS-U  
 Misc : MS63572,V1U2018,5,,,,10  
 ALS Vial : 67 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1U2015.M  
 Quant Results File: M1U2015.RES  
 Quant Time: Nov 03 15:42:24 2022  
 Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um  
 QLast Update : Wed Nov 02 11:15:22 2022  
 Response via : Initial Calibration

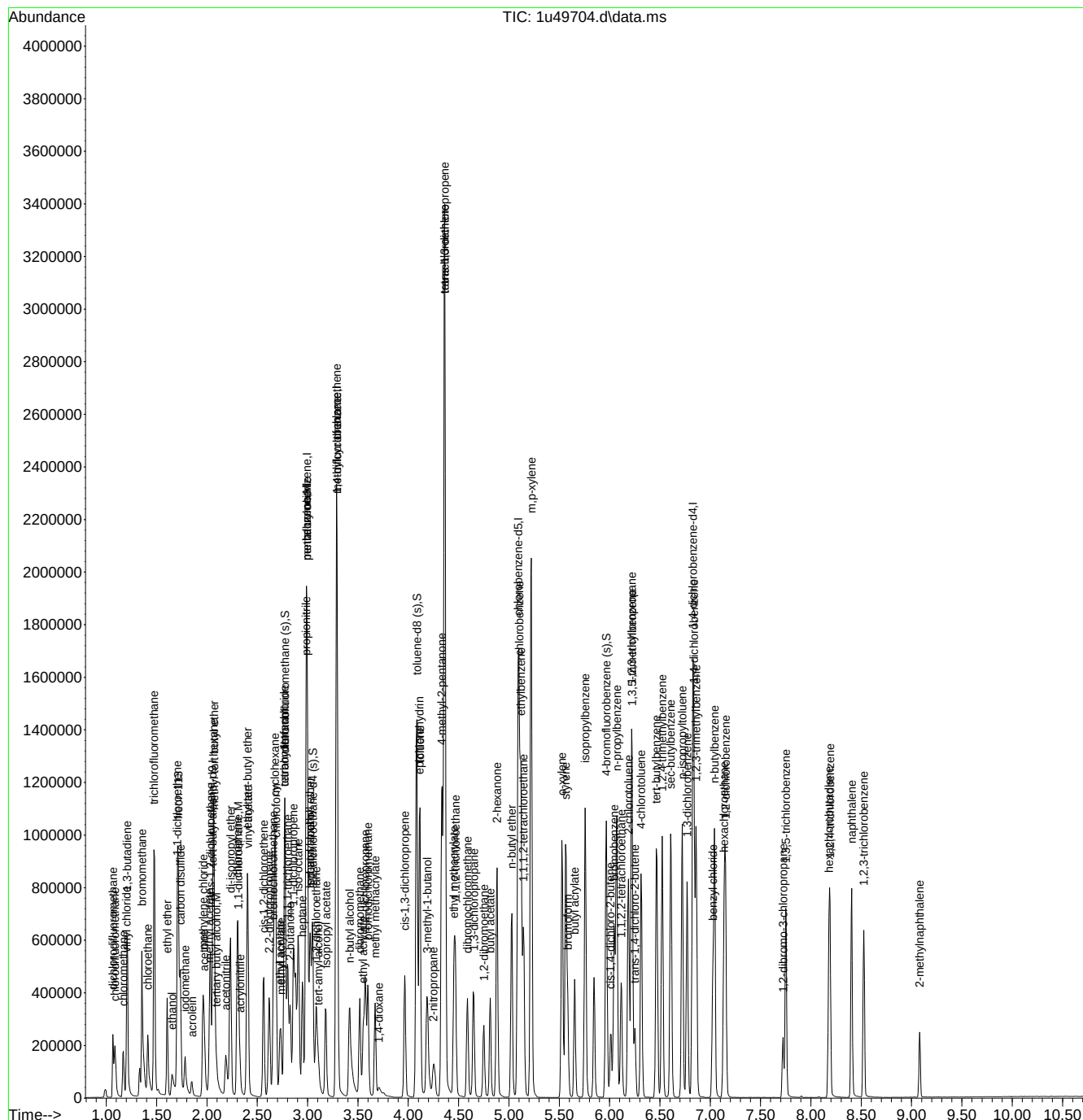
|      | Compound                  | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|------|---------------------------|-------|------|----------|-------|-------|----------|
| 107) | sec-butylbenzene          | 6.607 | 105  | 575726   | 48.98 | ug/L  | 99       |
| 108) | 1,3-dichlorobenzene       | 6.769 | 146  | 267377   | 48.12 | ug/L  | 98       |
| 109) | p-isopropyltoluene        | 6.722 | 119  | 474749   | 49.76 | ug/L  | 98       |
| 110) | 1,4-dichlorobenzene       | 6.837 | 146  | 271181   | 48.69 | ug/L  | 98       |
| 111) | 1,2-dichlorobenzene       | 7.152 | 146  | 244154   | 48.01 | ug/L  | 98       |
| 112) | 1,2,3-trimethylbenzene    | 6.858 | 105  | 440460   | 51.14 | ug/L  | 99       |
| 113) | n-butylbenzene            | 7.042 | 92   | 234674   | 49.66 | ug/L  | 96       |
| 114) | 1,2-dibromo-3-chloropr... | 7.723 | 157  | 43847    | 44.72 | ug/L  | 94       |
| 115) | 1,3,5-trichlorobenzene    | 7.750 | 180  | 164301   | 46.47 | ug/L  | 98       |
| 116) | 1,2,4-trichlorobenzene    | 8.190 | 180  | 135155   | 46.49 | ug/L  | 100      |
| 117) | hexachlorobutadiene       | 8.180 | 225  | 62826    | 44.28 | ug/L  | 98       |
| 118) | naphthalene               | 8.405 | 128  | 413128   | 47.34 | ug/L  | 99       |
| 119) | 1,2,3-trichlorobenzene    | 8.526 | 180  | 133901   | 46.38 | ug/L  | 99       |
| 120) | hexachloroethane          | 7.136 | 119  | 89280    | 51.95 | ug/L  | 96       |
| 121) | benzyl chloride           | 7.026 | 126  | 48411    | 40.88 | ug/L  | 97       |
| 122) | 2-methylnaphthalene       | 9.081 | 142  | 73869    | 23.99 | ug/L  | 98       |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

```
Data Path : C:\msdchem\1\data\Angieg\November 2022\nov. 3, 2022\v1u2018\  
Data File : 1u49704.d  
Acq On : 2 Nov 2022 1:04 am  
Operator : edwardd  
Sample : JD54605-5msd Inst : GCMS-U  
Misc : MS63572,V1U2018,5,,,,10  
ALS Vial : 67 Sample Multiplier: 1
```

Quant Method : C:\MSDCHEM\1\METHODS\M1U2015.M  
Quant Results File: M1U2015.RES  
Quant Time: Nov 03 15:42:24 2022  
Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um  
QLast Update : Wed Nov 02 11:15:22 2022  
Response via : Initial Calibration





## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\Angieg\November 2022\nov. 3, 2022\v2u2018\  
 Data File : 2u49705.d  
 Acq On : 2 Nov 2022 1:18 am  
 Operator : edwardd  
 Sample : JD54605-4msd Inst : GCMS-U  
 Misc : MS63572,V2U2018,5,,,,,4  
 ALS Vial : 68 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2U2015.M  
 Quant Results File: M2U2015.RES  
 Quant Time: Nov 03 18:15:13 2022  
 Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um  
 QLast Update : Wed Nov 02 12:34:58 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|-------|----------|
| Internal Standards            |        |       |          |          |       |          |
| 1) tert butyl alcohol-d9      | 2.061  | 65    | 355020   | 500.00   | ug/L  | 0.00     |
| 5) pentafluorobenzene         | 2.999  | 168   | 426138   | 50.00    | ug/L  | 0.00     |
| 50) 1,4-difluorobenzene       | 3.293  | 114   | 560881   | 50.00    | ug/L  | 0.00     |
| 72) chlorobenzene-d5          | 5.091  | 117   | 563951   | 50.00    | ug/L  | 0.00     |
| 95) 1,4-dichlorobenzene-d4    | 6.827  | 152   | 304121   | 50.00    | ug/L  | 0.00     |
| System Monitoring Compounds   |        |       |          |          |       |          |
| 42) dibromofluoromethane (s)  | 2.779  | 113   | 191895   | 46.23    | ug/L  | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 127 | Recovery | =     | 92.46%   |
| 51) 1,2-dichloroethane-d4 (s) | 3.052  | 65    | 230084   | 51.80    | ug/L  | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 130 | Recovery | =     | 103.60%  |
| 73) toluene-d8 (s)            | 4.085  | 98    | 663215   | 47.69    | ug/L  | 0.00     |
| Spiked Amount                 | 50.000 | Range | 80 - 120 | Recovery | =     | 95.38%   |
| 96) 4-bromofluorobenzene (s)  | 5.967  | 95    | 257006   | 47.36    | ug/L  | 0.00     |
| Spiked Amount                 | 50.000 | Range | 79 - 127 | Recovery | =     | 94.72%   |
| Target Compounds              |        |       |          |          |       |          |
|                               |        |       |          |          |       | Qvalue   |
| 2) ethanol                    | 1.657  | 45    | 149170   | 4783.60  | ug/L  | 98       |
| 3) tertiary butyl alcohol     | 2.098  | 59    | 116528   | 242.98   | ug/L  | 96       |
| 4) 1,4-dioxane                | 3.712  | 88    | 52005    | 1291.55  | ug/L  | 89       |
| 6) chlorodifluoromethane      | 1.091  | 51    | 103623   | 40.18    | ug/L  | 94       |
| 7) dichlorodifluoromethane    | 1.070  | 85    | 162289   | 43.79    | ug/L  | 99       |
| 8) chloromethane              | 1.170  | 50    | 121359   | 45.41    | ug/L  | 98       |
| 9) vinyl chloride             | 1.206  | 62    | 152360   | 49.04    | ug/L  | 100      |
| 10) 1,3-butadiene             | 1.217  | 39    | 85137    | 47.64    | ug/L  | 98       |
| 11) bromomethane              | 1.358  | 96    | 160099   | 63.30    | ug/L  | # 97     |
| 12) chloroethane              | 1.416  | 64    | 134686   | 53.75    | ug/L  | 99       |
| 13) trichlorofluoromethane    | 1.479  | 101   | 416123   | 54.73    | ug/L  | 99       |
| 14) ethyl ether               | 1.610  | 74    | 80067    | 49.28    | ug/L  | 98       |
| 15) acrolein                  | 1.851  | 56    | 25814    | 50.25    | ug/L  | 99       |
| 16) freon 113                 | 1.720  | 151   | 113734   | 47.01    | ug/L  | 99       |
| 17) 1,1-dichloroethene        | 1.710  | 61    | 169089   | 47.10    | ug/L  | 98       |
| 18) acetone                   | 1.977  | 58    | 51616    | 150.62   | ug/L  | 88       |
| 19) acetonitrile              | 2.192  | 41    | 152811   | 458.19   | ug/L  | 96       |
| 20) iodomethane               | 1.783  | 142   | 112444   | 44.06    | ug/L  | 99       |
| 21) carbon disulfide          | 1.741  | 76    | 301114   | 45.48    | ug/L  | 98       |
| 22) methylene chloride        | 1.966  | 84    | 102538   | 44.26    | ug/L  | 94       |
| 23) methyl acetate            | 2.024  | 74    | 23402    | 43.12    | ug/L  | 89       |
| 24) methyl tert butyl ether   | 2.077  | 73    | 304128   | 46.15    | ug/L  | 96       |
| 25) trans-1,2-dichloroethene  | 2.035  | 61    | 143643   | 49.45    | ug/L  | 93       |
| 26) hexane                    | 2.066  | 57    | 201656   | 43.23    | ug/L  | 99       |
| 27) di-isopropyl ether        | 2.234  | 45    | 278479   | 46.57    | ug/L  | 99       |
| 28) ethyl tert-butyl ether    | 2.407  | 59    | 297962   | 47.82    | ug/L  | 98       |
| 29) 2-butanone                | 2.832  | 72    | 79226    | 182.02   | ug/L  | 92       |
| 30) 1,1-dichloroethane        | 2.313  | 63    | 191230   | 46.62    | ug/L  | 97       |
| 31) chloroprene               | 2.307  | 53    | 154399   | 46.90    | ug/L  | 99       |
| 32) acrylonitrile             | 2.333  | 52    | 38878    | 55.11    | ug/L  | 92       |
| 33) vinyl acetate             | 2.412  | 86    | 26580    | 53.19    | ug/L  | 94       |
| 34) ethyl acetate             | 2.727  | 70    | 14268    | 46.53    | ug/L  | 94       |
| 35) 2,2-dichloropropane       | 2.622  | 77    | 150615   | 40.49    | ug/L  | 99       |
| 36) cis-1,2-dichloroethene    | 2.564  | 96    | 126649   | 48.21    | ug/L  | 97       |
| 37) propionitrile             | 2.984  | 54    | 214579   | 485.49   | ug/L  | 95       |
| 38) methyl acrylate           | 2.737  | 85    | 25593    | 50.70    | ug/L  | 97       |
| 39) bromochloromethane        | 2.664  | 128   | 55260    | 43.46    | ug/L  | 94       |
| 40) tetrahydrofuran           | 2.774  | 71    | 19051    | 47.34    | ug/L  | 90       |
| 41) chloroform                | 2.685  | 47    | 57351    | 45.81    | ug/L  | 95       |



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\Angieg\November 2022\nov. 3, 2022\v2u2018\  
 Data File : 2u49705.d  
 Acq On : 2 Nov 2022 1:18 am  
 Operator : edwardd  
 Sample : JD54605-4msd Inst : GCMS-U  
 Misc : MS63572,V2U2018,5,,,,,4  
 ALS Vial : 68 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2U2015.M

Quant Results File: M2U2015.RES

Quant Time: Nov 03 18:15:13 2022

Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um

QLast Update : Wed Nov 02 12:34:58 2022

Response via : Initial Calibration

| Compound                      | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|-------|------|----------|---------|-------|----------|
| 43) methacrylonitrile         | 2.999 | 67   | 58255    | 48.03   | ug/L  | 98       |
| 44) 1,1,1-trichloroethane     | 2.805 | 97   | 195313   | 45.85   | ug/L  | 96       |
| 45) cyclohexane               | 2.680 | 84   | 184249   | 51.61   | ug/L  | 94       |
| 46) 1,1-dichloropropene       | 2.863 | 75   | 152588   | 46.61   | ug/L  | 98       |
| 47) carbon tetrachloride      | 2.774 | 117  | 193745   | 44.84   | ug/L  | 97       |
| 48) isobutyl alcohol          | 3.031 | 43   | 154424   | 517.77  | ug/L  | 96       |
| 49) tert-amyl alcohol         | 3.104 | 55   | 39068    | 246.77  | ug/L  | 90       |
| 52) iso-octane                | 2.910 | 57   | 322302   | 40.84   | ug/L  | 98       |
| 53) benzene                   | 2.989 | 78   | 428687   | 48.14   | ug/L  | 99       |
| 54) tert-amyl methyl ether    | 3.026 | 73   | 305957   | 48.02   | ug/L  | 99       |
| 55) heptane                   | 2.952 | 57   | 59489    | 43.64   | ug/L  | 98       |
| 56) isopropyl acetate         | 3.183 | 87   | 31300    | 50.73   | ug/L  | 100      |
| 57) 1,2-dichloroethane        | 3.088 | 62   | 149699   | 47.95   | ug/L  | 99       |
| 58) n-butyl alcohol           | 3.419 | 56   | 249771   | 2457.96 | ug/L  | 98       |
| 59) ethyl acrylate            | 3.555 | 55   | 163345   | 49.02   | ug/L  | 99       |
| 60) trichloroethene           | 3.288 | 130  | 194344   | 70.34   | ug/L  | 100      |
| 61) 2-nitropropane            | 4.247 | 41   | 43586    | 49.56   | ug/L  | 93       |
| 63) methyl methacrylate       | 3.670 | 100  | 36823    | 50.93   | ug/L  | 90       |
| 64) 1,2-dichloropropane       | 3.576 | 63   | 101445   | 50.74   | ug/L  | 99       |
| 65) methylcyclohexane         | 3.293 | 55   | 127188   | 44.80   | ug/L  | 100      |
| 66) dibromomethane            | 3.518 | 93   | 83046    | 48.75   | ug/L  | 99       |
| 67) bromodichloromethane      | 3.602 | 83   | 167043   | 48.63   | ug/L  | 99       |
| 68) epichlorohydrin           | 4.111 | 57   | 71152    | 204.80  | ug/L  | 99       |
| 69) cis-1,3-dichloropropene   | 3.964 | 75   | 166203   | 47.29   | ug/L  | 94       |
| 70) 4-methyl-2-pentanone      | 4.336 | 58   | 221713   | 201.91  | ug/L  | 99       |
| 71) 3-methyl-1-butanol        | 4.190 | 70   | 104227   | 1017.43 | ug/L  | 97       |
| 74) toluene                   | 4.116 | 92   | 283880   | 47.60   | ug/L  | 99       |
| 75) ethyl methacrylate        | 4.452 | 69   | 146604   | 47.74   | ug/L  | 94       |
| 76) trans-1,3-dichloropropene | 4.363 | 75   | 165741   | 47.85   | ug/L  | 99       |
| 77) 1,1,2-trichloroethane     | 4.467 | 83   | 88754    | 46.51   | ug/L  | 97       |
| 78) tetrachloroethene         | 4.363 | 166  | 805307   | 259.92  | ug/L  | 95       |
| 79) 2-hexanone                | 4.882 | 58   | 234988   | 187.04  | ug/L  | 99       |
| 80) 1,3-dichloropropane       | 4.651 | 76   | 165514   | 47.45   | ug/L  | 99       |
| 81) butyl acetate             | 4.813 | 56   | 74590    | 47.39   | ug/L  | 99       |
| 82) dibromochloromethane      | 4.588 | 129  | 139976   | 46.32   | ug/L  | 99       |
| 83) 1,2-dibromoethane         | 4.751 | 107  | 123897   | 47.31   | ug/L  | 99       |
| 84) n-butyl ether             | 5.028 | 57   | 418842   | 49.98   | ug/L  | 99       |
| 85) chlorobenzene             | 5.102 | 112  | 345891   | 48.69   | ug/L  | 97       |
| 86) 1,1,1,2-tetrachloroethane | 5.144 | 131  | 133087   | 52.09   | ug/L  | 97       |
| 87) ethylbenzene              | 5.118 | 91   | 583786   | 47.95   | ug/L  | 96       |
| 88) m,p-xylene                | 5.222 | 106  | 456105   | 104.74  | ug/L  | 97       |
| 89) o-xylene                  | 5.526 | 106  | 209555   | 49.33   | ug/L  | 98       |
| 90) styrene                   | 5.563 | 104  | 356594   | 52.28   | ug/L  | 100      |
| 91) bromoform                 | 5.584 | 173  | 120402   | 50.53   | ug/L  | 98       |
| 92) butyl acrylate            | 5.652 | 55   | 218251   | 50.11   | ug/L  | 99       |
| 93) isopropylbenzene          | 5.757 | 105  | 591651   | 52.32   | ug/L  | 99       |
| 94) cis-1,4-dichloro-2-butene | 6.014 | 88   | 62782    | 44.53   | ug/L  | 90       |
| 97) bromobenzene              | 6.046 | 156  | 155291   | 45.06   | ug/L  | 95       |
| 98) 1,1,2,2-tetrachloroethane | 6.114 | 83   | 168801   | 45.52   | ug/L  | 97       |
| 99) trans-1,4-dichloro-2-b... | 6.250 | 53   | 38979    | 42.62   | ug/L  | 97       |
| 100) 1,2,3-trichloropropane   | 6.219 | 110  | 56902    | 46.84   | ug/L  | 97       |
| 101) n-propylbenzene          | 6.072 | 91   | 684853   | 48.48   | ug/L  | 99       |
| 102) 2-chlorotoluene          | 6.187 | 126  | 143350   | 47.33   | ug/L  | 95       |
| 103) 4-chlorotoluene          | 6.313 | 91   | 395694   | 47.55   | ug/L  | 99       |
| 104) 1,3,5-trimethylbenzene   | 6.224 | 105  | 478898   | 50.11   | ug/L  | 96       |
| 105) tert-butylbenzene        | 6.465 | 119  | 419611   | 49.46   | ug/L  | 94       |
| 106) 1,2,4-trimethylbenzene   | 6.523 | 105  | 473830   | 50.58   | ug/L  | 99       |

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\Angieg\November 2022\nov. 3, 2022\v2u2018\  
 Data File : 2u49705.d  
 Acq On : 2 Nov 2022 1:18 am  
 Operator : edwardd  
 Sample : JD54605-4msd Inst : GCMS-U  
 Misc : MS63572,V2U2018,5,,,,,4  
 ALS Vial : 68 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2U2015.M  
 Quant Results File: M2U2015.RES  
 Quant Time: Nov 03 18:15:13 2022  
 Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um  
 QLast Update : Wed Nov 02 12:34:58 2022  
 Response via : Initial Calibration

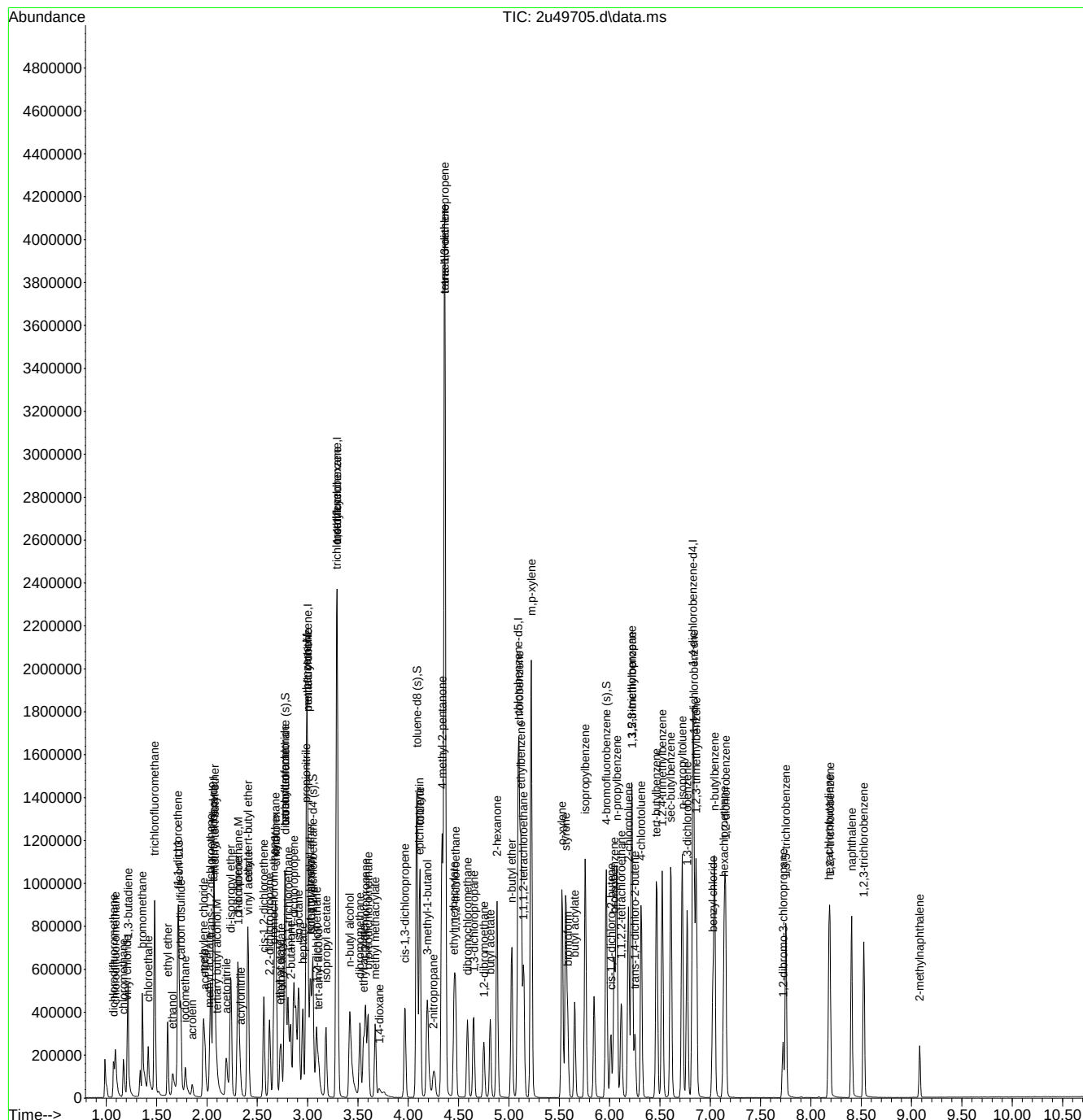
|      | Compound                  | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|------|---------------------------|-------|------|----------|-------|-------|----------|
| 107) | sec-butylbenzene          | 6.607 | 105  | 622731   | 50.33 | ug/L  | 98       |
| 108) | 1,3-dichlorobenzene       | 6.769 | 146  | 290464   | 48.06 | ug/L  | 99       |
| 109) | p-isopropyltoluene        | 6.722 | 119  | 518447   | 51.22 | ug/L  | 98       |
| 110) | 1,4-dichlorobenzene       | 6.837 | 146  | 293509   | 48.56 | ug/L  | 99       |
| 111) | 1,2-dichlorobenzene       | 7.152 | 146  | 270263   | 48.88 | ug/L  | 99       |
| 112) | 1,2,3-trimethylbenzene    | 6.858 | 105  | 481527   | 50.33 | ug/L  | 98       |
| 113) | n-butylbenzene            | 7.042 | 92   | 261059   | 50.93 | ug/L  | 98       |
| 114) | 1,2-dibromo-3-chloropr... | 7.723 | 157  | 51771    | 44.56 | ug/L  | 95       |
| 115) | 1,3,5-trichlorobenzene    | 7.750 | 180  | 189000   | 46.49 | ug/L  | 98       |
| 116) | 1,2,4-trichlorobenzene    | 8.190 | 180  | 150097   | 44.66 | ug/L  | 100      |
| 117) | hexachlorobutadiene       | 8.179 | 225  | 72815    | 43.86 | ug/L  | 98       |
| 118) | naphthalene               | 8.405 | 128  | 439091   | 46.29 | ug/L  | 100      |
| 119) | 1,2,3-trichlorobenzene    | 8.525 | 180  | 150519   | 47.70 | ug/L  | 95       |
| 120) | hexachloroethane          | 7.136 | 119  | 96669    | 52.11 | ug/L  | 95       |
| 121) | benzyl chloride           | 7.026 | 126  | 55168    | 42.47 | ug/L  | 97       |
| 122) | 2-methylnaphthalene       | 9.081 | 142  | 69496    | 22.59 | ug/L  | 98       |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

```
Data Path : C:\mschem\1\data\Angieg\November 2022\nov. 3, 2022\v2u2018\
Data File : 2u49705.d
Acq On    : 2 Nov 2022    1:18 am
Operator  : edwardd
Sample    : JD54605-4msd                      Inst      : GCMS-U
Misc      : MS63572,V2U2018,5,,,,,4
ALS Vial  : 68      Sample Multiplier: 1
```

Quant Method : C:\MSDCHEM\1\METHODS\M2U2015.M  
Quant Results File: M2U2015.RES  
Quant Time: Nov 03 18:15:13 2022  
Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um  
QLast Update : Wed Nov 02 12:34:58 2022  
Response via : Initial Calibration



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\KINJALD\November2022\11-3-22\vk38\  
 Data File : 1k01251.d  
 Acq On : 2 Nov 2022 4:29 pm  
 Operator : taylors  
 Sample : jd54531-3ms  
 Misc : MS63526,V1K0038,5,,,,20  
 ALS Vial : 30 Sample Multiplier: 1

Quant Time: Nov 03 09:38:55 2022  
 Quant Method : C:\msdchem\1\methods\M1K11.M  
 Quant Title : SW-846 Method 8260D, column Rtx-VMS 20m x 0.18 id x 1.0 um  
 QLast Update : Mon Oct 17 15:20:12 2022  
 Response via : Initial Calibration

| Compound                      | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|---------|--------|----------|
| -----                         |                |      |            |         |        |          |
| Internal Standards            |                |      |            |         |        |          |
| 1) tert butyl alcohol-d9      | 2.258          | 65   | 470324     | 500.00  | ug/L   | 0.00     |
| 5) pentafluorobenzene         | 3.212          | 168  | 262646     | 50.00   | ug/L   | 0.00     |
| 50) 1,4-difluorobenzene       | 3.516          | 114  | 455302     | 50.00   | ug/L   | 0.01     |
| 72) chlorobenzene-d5          | 5.325          | 117  | 400838     | 50.00   | ug/L   | 0.01     |
| 95) 1,4-dichlorobenzene-d4    | 7.045          | 152  | 168823     | 50.00   | ug/L   | 0.01     |
| System Monitoring Compounds   |                |      |            |         |        |          |
| 42) dibromofluoromethane (s)  | 2.992          | 113  | 128768     | 52.87   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 127 |      | Recovery = | 105.74% |        |          |
| 51) 1,2-dichloroethane-d4 (s) | 3.275          | 65   | 216645     | 54.19   | ug/L   | 0.01     |
| Spiked Amount 50.000          | Range 75 - 130 |      | Recovery = | 108.38% |        |          |
| 73) toluene-d8 (s)            | 4.313          | 98   | 610105     | 52.38   | ug/L   | 0.01     |
| Spiked Amount 50.000          | Range 80 - 120 |      | Recovery = | 104.76% |        |          |
| 96) 4-bromofluorobenzene (s)  | 6.195          | 95   | 221532     | 57.50   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 79 - 127 |      | Recovery = | 115.00% |        |          |
| Target Compounds              |                |      |            |         |        |          |
|                               |                |      |            |         | Qvalue |          |
| 2) ethanol                    | 1.849          | 45   | 550096     | 4326.14 | ug/L   | 99       |
| 3) tertiary butyl alcohol     | 2.289          | 59   | 3105775    | 2478.99 | ug/L   | 75       |
| 4) 1,4-dioxane                | 3.936          | 88   | 73573      | 1162.84 | ug/L   | 93       |
| 6) chlorodifluoromethane      | 1.241          | 51   | 203878     | 39.91   | ug/L   | 98       |
| 7) dichlorodifluoromethane    | 1.215          | 85   | 164755     | 47.87   | ug/L   | 99       |
| 8) chloromethane              | 1.330          | 50   | 223371     | 42.48   | ug/L   | 98       |
| 9) vinyl chloride             | 1.367          | 62   | 195614     | 45.20   | ug/L   | 99       |
| 10) 1,3-butadiene             | 1.372          | 39   | 138513     | 42.74   | ug/L   | 99       |
| 11) bromomethane              | 1.524          | 96   | 42011      | 38.93   | ug/L # | 97       |
| 12) chloroethane              | 1.582          | 64   | 101407     | 41.71   | ug/L   | 96       |
| 13) trichlorofluoromethane    | 1.650          | 101  | 150495     | 46.13   | ug/L   | 98       |
| 14) ethyl ether               | 1.786          | 74   | 79970      | 53.10   | ug/L   | 90       |
| 15) acrolein                  | 2.043          | 56   | 62358      | 61.63   | ug/L   | 98       |
| 16) freon 113                 | 1.901          | 151  | 58570      | 41.73   | ug/L # | 85       |
| 17) 1,1-dichloroethene        | 1.891          | 61   | 192655     | 44.29   | ug/L   | 97       |
| 18) acetone                   | 2.174          | 58   | 131396     | 149.36  | ug/L   | 99       |
| 19) acetonitrile              | 2.400          | 41   | 698825     | 511.37  | ug/L   | 98       |
| 20) iodomethane               | 1.975          | 142  | 38880      | 24.71   | ug/L   | 88       |
| 21) carbon disulfide          | 1.928          | 76   | 265436     | 40.89   | ug/L   | 97       |
| 22) methylene chloride        | 2.164          | 84   | 110675     | 49.03   | ug/L   | 97       |
| 23) methyl acetate            | 2.221          | 74   | 41618      | 39.01   | ug/L # | 81       |
| 24) methyl tert butyl ether   | 2.268          | 73   | 3204597    | 419.32  | ug/L # | 64       |
| 25) trans-1,2-dichloroethene  | 2.232          | 61   | 201555     | 41.64   | ug/L   | 95       |
| 26) hexane                    | 2.268          | 57   | 1552772    | 173.02  | ug/L   | 83       |
| 27) di-isopropyl ether        | 2.436          | 45   | 707604     | 50.26   | ug/L   | 100      |
| 28) ethyl tert-butyl ether    | 2.609          | 59   | 2316434    | 216.29  | ug/L   | 100      |
| 29) 2-butanone                | 3.044          | 72   | 142216     | 196.41  | ug/L   | 98       |
| 30) 1,1-dichloroethane        | 2.520          | 63   | 269384     | 49.14   | ug/L   | 100      |
| 31) chloroprene               | 2.510          | 53   | 296775     | 50.24   | ug/L   | 98       |
| 32) acrylonitrile             | 2.541          | 52   | 95498      | 45.77   | ug/L   | 99       |
| 33) vinyl acetate             | 2.614          | 86   | 37005      | 83.86   | ug/L # | 45       |
| 34) ethyl acetate             | 2.940          | 70   | 25531      | 54.69   | ug/L   | 95       |
| 35) 2,2-dichloropropane       | 2.835          | 77   | 184735     | 54.20   | ug/L   | 97       |
| 36) cis-1,2-dichloroethene    | 2.777          | 96   | 111705     | 48.21   | ug/L   | 88       |
| 37) propionitrile             | 3.207          | 54   | 619651     | 524.18  | ug/L   | 98       |
| 38) methyl acrylate           | 2.950          | 85   | 34932      | 45.63   | ug/L # | 88       |
| 39) bromochloromethane        | 2.882          | 128  | 41593      | 46.37   | ug/L   | 91       |
| 40) tetrahydrofuran           | 2.987          | 71   | 31380      | 49.56   | ug/L # | 79       |
| 41) chloroform                | 2.903          | 47   | 88530      | 50.21   | ug/L   | 98       |
| 43) methacrylonitrile         | 3.217          | 67   | 100310     | 50.21   | ug/L   | 96       |

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\KINJALD\November2022\11-3-22\vk38\  
 Data File : 1k01251.d  
 Acq On : 2 Nov 2022 4:29 pm  
 Operator : taylors  
 Sample : jd54531-3ms  
 Misc : MS63526,V1K0038,5,,,,20  
 ALS Vial : 30 Sample Multiplier: 1

Quant Time: Nov 03 09:38:55 2022

Quant Method : C:\msdchem\1\methods\M1K11.M

Quant Title : SW-846 Method 8260D, column Rtx-VMS 20m x 0.18 id x 1.0 um

QLast Update : Mon Oct 17 15:20:12 2022

Response via : Initial Calibration

| Compound                      | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|---------|--------|----------|
| 44) 1,1,1-trichloroethane     | 3.023 | 97   | 167327   | 50.57   | ug/L   | 99       |
| 45) cyclohexane               | 2.892 | 84   | 197324   | 47.23   | ug/L   | 98       |
| 46) 1,1-dichloropropene       | 3.081 | 75   | 174251   | 51.10   | ug/L   | 97       |
| 47) carbon tetrachloride      | 2.992 | 117  | 129493   | 43.12   | ug/L   | 99       |
| 48) isobutyl alcohol          | 3.249 | 43   | 461981   | 587.36  | ug/L   | 97       |
| 49) tert-amyl alcohol         | 3.322 | 55   | 141173   | 361.84  | ug/L   | 99       |
| 52) iso-octane                | 3.123 | 57   | 706989   | 42.89   | ug/L   | 94       |
| 53) benzene                   | 3.207 | 78   | 496675   | 44.14   | ug/L   | 96       |
| 54) tert-amyl methyl ether    | 3.244 | 73   | 445142   | 49.83   | ug/L   | 98       |
| 55) heptane                   | 3.165 | 57   | 123549   | 51.67   | ug/L   | 98       |
| 56) isopropyl acetate         | 3.396 | 87   | 45269    | 53.67   | ug/L # | 82       |
| 57) 1,2-dichloroethane        | 3.307 | 62   | 203513   | 48.53   | ug/L   | 99       |
| 58) n-butyl alcohol           | 3.637 | 56   | 826848   | 2971.96 | ug/L   | 99       |
| 59) ethyl acrylate            | 3.773 | 55   | 381959   | 56.50   | ug/L   | 99       |
| 60) trichloroethene           | 3.511 | 130  | 92480    | 40.79   | ug/L   | 96       |
| 61) 2-nitropropane            | 4.476 | 41   | 97016    | 50.35   | ug/L   | 95       |
| 62) 2-chloroethyl vinyl ether | 4.140 | 63   | 146204   | 59.54   | ug/L   | 98       |
| 63) methyl methacrylate       | 3.894 | 100  | 44692    | 47.37   | ug/L   | 92       |
| 64) 1,2-dichloropropane       | 3.805 | 63   | 164899   | 48.64   | ug/L   | 97       |
| 65) methylcyclohexane         | 3.516 | 55   | 250853   | 41.02   | ug/L   | 100      |
| 66) dibromomethane            | 3.747 | 93   | 71650    | 47.71   | ug/L   | 93       |
| 67) bromodichloromethane      | 3.826 | 83   | 161549   | 51.34   | ug/L   | 98       |
| 68) epichlorohydrin           | 4.339 | 57   | 206597   | 271.66  | ug/L   | 98       |
| 69) cis-1,3-dichloropropene   | 4.193 | 75   | 227952   | 51.17   | ug/L   | 98       |
| 70) 4-methyl-2-pentanone      | 4.560 | 58   | 522052   | 206.08  | ug/L   | 94       |
| 71) 3-methyl-1-butanol        | 4.408 | 70   | 231936   | 1191.95 | ug/L   | 96       |
| 74) toluene                   | 4.345 | 92   | 290922   | 45.21   | ug/L   | 99       |
| 75) ethyl methacrylate        | 4.675 | 69   | 223654   | 55.05   | ug/L   | 100      |
| 76) trans-1,3-dichloropropene | 4.591 | 75   | 214975   | 54.51   | ug/L   | 97       |
| 77) 1,1,2-trichloroethane     | 4.696 | 83   | 96066    | 50.65   | ug/L   | 95       |
| 78) tetrachloroethene         | 4.591 | 166  | 84973    | 41.43   | ug/L   | 96       |
| 79) 2-hexanone                | 5.105 | 58   | 575074   | 205.75  | ug/L   | 95       |
| 80) 1,3-dichloropropane       | 4.879 | 76   | 222426   | 50.06   | ug/L   | 98       |
| 81) butyl acetate             | 5.032 | 56   | 200326   | 59.34   | ug/L   | 92       |
| 82) dibromochloromethane      | 4.822 | 129  | 98561    | 46.33   | ug/L   | 98       |
| 83) 1,2-dibromoethane         | 4.984 | 107  | 105065   | 48.20   | ug/L   | 98       |
| 84) n-butyl ether             | 5.246 | 57   | 871224   | 49.89   | ug/L   | 99       |
| 85) chlorobenzene             | 5.336 | 112  | 277096   | 45.44   | ug/L   | 98       |
| 86) 1,1,1,2-tetrachloroethane | 5.378 | 131  | 89944    | 48.88   | ug/L   | 96       |
| 87) ethylbenzene              | 5.346 | 91   | 555225   | 45.25   | ug/L   | 95       |
| 88) m,p-xylene                | 5.446 | 106  | 393308   | 90.51   | ug/L   | 99       |
| 89) o-xylene                  | 5.755 | 106  | 190097   | 45.45   | ug/L   | 96       |
| 90) styrene                   | 5.792 | 104  | 327594   | 47.52   | ug/L   | 95       |
| 91) bromoform                 | 5.818 | 173  | 74109    | 48.50   | ug/L   | 99       |
| 92) butyl acrylate            | 5.870 | 55   | 483071   | 61.42   | ug/L   | 99       |
| 93) isopropylbenzene          | 5.986 | 105  | 510255   | 45.39   | ug/L   | 98       |
| 94) cis-1,4-dichloro-2-butene | 6.237 | 88   | 84354    | 54.21   | ug/L   | 94       |
| 97) bromobenzene              | 6.279 | 156  | 99381    | 48.81   | ug/L   | 89       |
| 98) 1,1,2,2-tetrachloroethane | 6.342 | 83   | 189837   | 57.07   | ug/L   | 96       |
| 99) trans-1,4-dichloro-2-b... | 6.479 | 53   | 101700   | 54.56   | ug/L   | 99       |
| 100) 1,2,3-trichloropropane   | 6.447 | 110  | 55039    | 56.86   | ug/L   | 95       |
| 101) n-propylbenzene          | 6.295 | 91   | 652698   | 49.56   | ug/L   | 99       |
| 102) 2-chlorotoluene          | 6.416 | 126  | 102132   | 48.21   | ug/L   | 97       |
| 103) 4-chlorotoluene          | 6.542 | 91   | 403402   | 50.57   | ug/L   | 95       |
| 104) 1,3,5-trimethylbenzene   | 6.442 | 105  | 420949   | 48.94   | ug/L   | 98       |
| 105) tert-butylbenzene        | 6.688 | 119  | 328267   | 47.57   | ug/L   | 94       |
| 106) 1,2,4-trimethylbenzene   | 6.746 | 105  | 436956   | 50.00   | ug/L   | 99       |
| 107) sec-butylbenzene         | 6.830 | 105  | 537253   | 48.73   | ug/L   | 98       |

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\KINJALD\November2022\11-3-22\vk38\  
Data File : 1k01251.d  
Acq On : 2 Nov 2022 4:29 pm  
Operator : taylors  
Sample : jd54531-3ms  
Misc : MS63526,V1K0038,5,,,,20  
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Nov 03 09:38:55 2022  
Quant Method : C:\msdchem\1\methods\M1k11.M  
Quant Title : SW-846 Method 8260D, column Rtx-VMS 20m x 0.18 id x 1.0 um  
QLast Update : Mon Oct 17 15:20:12 2022  
Response via : Initial Calibration

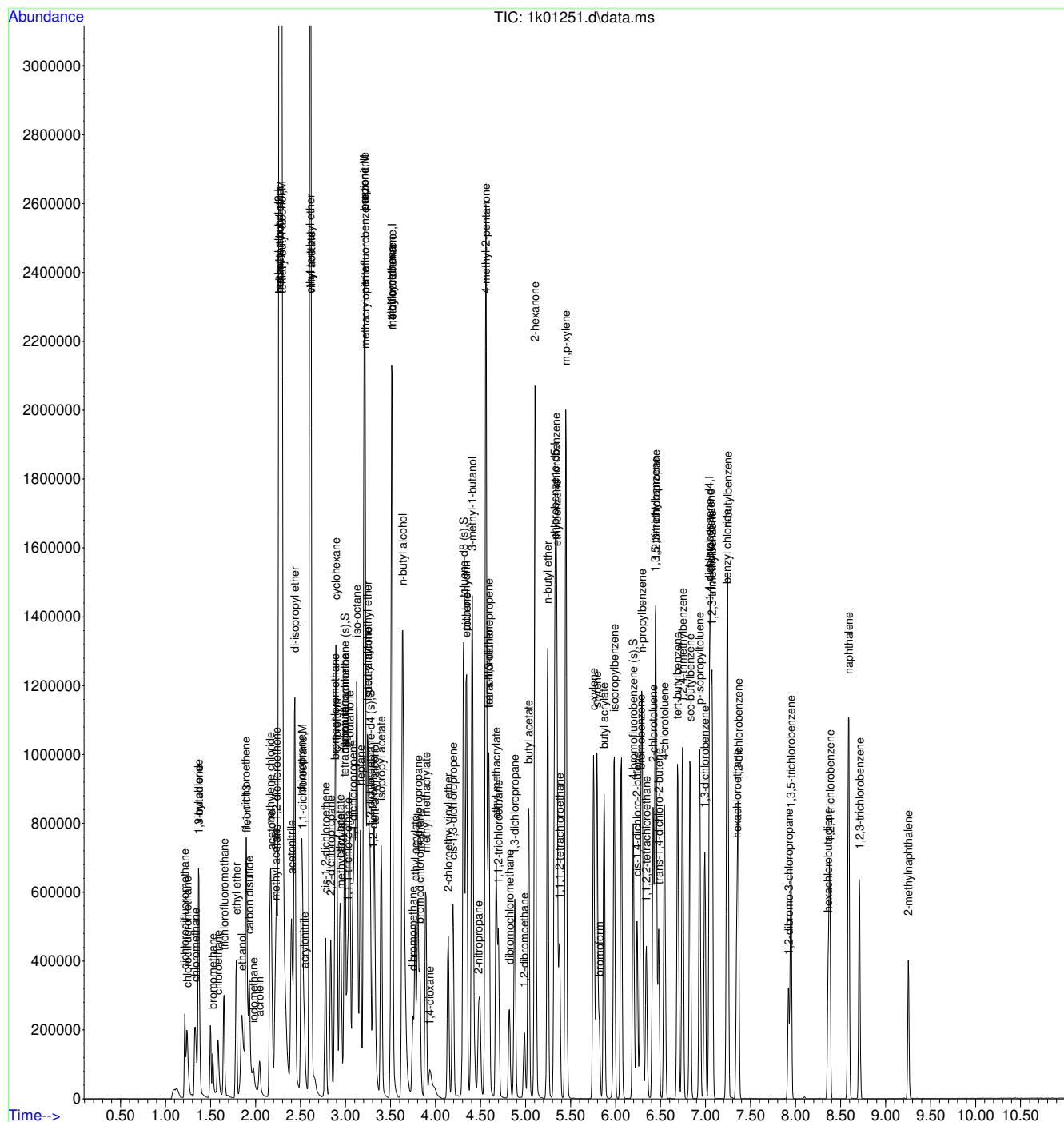
| Compound                       | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-------|--------|----------|
| 108) 1,3-dichlorobenzene       | 6.992 | 146  | 190018   | 45.39 | ug/L   | 95       |
| 109) p-isopropyltoluene        | 6.935 | 119  | 410084   | 48.59 | ug/L   | 96       |
| 110) 1,4-dichlorobenzene       | 7.055 | 146  | 190585   | 45.90 | ug/L   | 96       |
| 111) 1,2-dichlorobenzene       | 7.365 | 146  | 185431   | 45.41 | ug/L   | 94       |
| 112) 1,2,3-trimethylbenzene    | 7.071 | 105  | 454722   | 49.91 | ug/L   | 98       |
| 113) n-butylbenzene            | 7.244 | 92   | 276781   | 51.45 | ug/L # | 70       |
| 114) 1,2-dibromo-3-chloropr... | 7.926 | 157  | 48067    | 51.72 | ug/L   | 98       |
| 115) 1,3,5-trichlorobenzene    | 7.947 | 180  | 134634   | 44.45 | ug/L   | 98       |
| 116) 1,2,4-trichlorobenzene    | 8.382 | 180  | 122035   | 47.87 | ug/L   | 100      |
| 117) hexachlorobutadiene       | 8.361 | 225  | 46554    | 42.37 | ug/L   | 93       |
| 118) naphthalene               | 8.592 | 128  | 499460   | 49.89 | ug/L   | 99       |
| 119) 1,2,3-trichlorobenzene    | 8.712 | 180  | 120491   | 48.31 | ug/L   | 97       |
| 120) hexachloroethane          | 7.349 | 119  | 70327    | 49.24 | ug/L   | 99       |
| 121) benzyl chloride           | 7.239 | 126  | 65829    | 62.63 | ug/L   | 92       |
| 122) 2-methylnaphthalene       | 9.252 | 142  | 113606   | 24.02 | ug/L   | 96       |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\KINJALD\November2022\11-3-22\vk38\  
Data File : 1k01251.d  
Acq On : 2 Nov 2022 4:29 pm  
Operator : taylors  
Sample : jd54531-3ms  
Misc : MS63526,V1K0038,5,,,,20  
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Nov 03 09:38:55 2022  
Quant Method : C:\msdchem\1\methods\M1K11.M  
Quant Title : SW-846 Method 8260D, column Rtx-VMS 20m x 0.18 id x 1.0 um  
QLast Update : Mon Oct 17 15:20:12 2022  
Response via : Initial Calibration



## 7.4.5



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\KINJALD\November2022\11-3-22\vk38\  
 Data File : 1k01253.d  
 Acq On : 2 Nov 2022 5:02 pm  
 Operator : taylors  
 Sample : jd54531-3msd  
 Misc : MS63526,V1K0038,5,,,,20  
 ALS Vial : 32 Sample Multiplier: 1

Quant Time: Nov 03 09:39:00 2022

Quant Method : C:\msdchem\1\methods\M1K11.M

Quant Title : SW-846 Method 8260D, column Rtx-VMS 20m x 0.18 id x 1.0 um

QLast Update : Mon Oct 17 15:20:12 2022

Response via : Initial Calibration

| Compound                      | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|---------|--------|----------|
| Internal Standards            |                |      |            |         |        |          |
| 1) tert butyl alcohol-d9      | 2.253          | 65   | 461617     | 500.00  | ug/L   | 0.00     |
| 5) pentafluorobenzene         | 3.212          | 168  | 281167     | 50.00   | ug/L   | 0.00     |
| 50) 1,4-difluorobenzene       | 3.511          | 114  | 474004     | 50.00   | ug/L   | 0.00     |
| 72) chlorobenzene-d5          | 5.325          | 117  | 413478     | 50.00   | ug/L   | 0.01     |
| 95) 1,4-dichlorobenzene-d4    | 7.045          | 152  | 175460     | 50.00   | ug/L   | 0.01     |
| System Monitoring Compounds   |                |      |            |         |        |          |
| 42) dibromofluoromethane (s)  | 2.992          | 113  | 133322     | 51.13   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 127 |      | Recovery = | 102.26% |        |          |
| 51) 1,2-dichloroethane-d4 (s) | 3.270          | 65   | 229719     | 55.19   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 130 |      | Recovery = | 110.38% |        |          |
| 73) toluene-d8 (s)            | 4.308          | 98   | 633474     | 52.73   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 80 - 120 |      | Recovery = | 105.46% |        |          |
| 96) 4-bromofluorobenzene (s)  | 6.195          | 95   | 228712     | 57.12   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 79 - 127 |      | Recovery = | 114.24% |        |          |
| Target Compounds              |                |      |            |         |        |          |
|                               |                |      |            |         |        | Qvalue   |
| 2) ethanol                    | 1.844          | 45   | 576424     | 4618.70 | ug/L   | 99       |
| 3) tertiary butyl alcohol     | 2.284          | 59   | 3258505    | 2649.96 | ug/L   | 75       |
| 4) 1,4-dioxane                | 3.936          | 88   | 79484      | 1279.96 | ug/L   | 97       |
| 6) chlorodifluoromethane      | 1.230          | 51   | 212131     | 38.79   | ug/L   | 99       |
| 7) dichlorodifluoromethane    | 1.209          | 85   | 174431     | 47.34   | ug/L   | 99       |
| 8) chloromethane              | 1.319          | 50   | 251164     | 44.62   | ug/L   | 100      |
| 9) vinyl chloride             | 1.356          | 62   | 206423     | 44.56   | ug/L   | 98       |
| 10) 1,3-butadiene             | 1.361          | 39   | 141901     | 40.90   | ug/L   | 98       |
| 11) bromomethane              | 1.519          | 96   | 52062      | 45.06   | ug/L # | 96       |
| 12) chloroethane              | 1.576          | 64   | 109943     | 42.24   | ug/L   | 99       |
| 13) trichlorofluoromethane    | 1.644          | 101  | 162807     | 46.62   | ug/L   | 99       |
| 14) ethyl ether               | 1.781          | 74   | 81007      | 50.24   | ug/L   | 89       |
| 15) acrolein                  | 2.038          | 56   | 66307      | 61.22   | ug/L   | 100      |
| 16) freon 113                 | 1.896          | 151  | 63387      | 42.19   | ug/L   | 91       |
| 17) 1,1-dichloroethene        | 1.886          | 61   | 200395     | 43.03   | ug/L   | 96       |
| 18) acetone                   | 2.169          | 58   | 140428     | 149.12  | ug/L   | 96       |
| 19) acetonitrile              | 2.394          | 41   | 721262     | 493.02  | ug/L   | 99       |
| 20) iodomethane               | 1.970          | 142  | 59938      | 35.58   | ug/L   | 98       |
| 21) carbon disulfide          | 1.922          | 76   | 295152     | 42.48   | ug/L   | 98       |
| 22) methylene chloride        | 2.158          | 84   | 116353     | 48.15   | ug/L   | 95       |
| 23) methyl acetate            | 2.216          | 74   | 43638      | 38.21   | ug/L # | 77       |
| 24) methyl tert butyl ether   | 2.263          | 73   | 3402464    | 415.88  | ug/L # | 63       |
| 25) trans-1,2-dichloroethene  | 2.226          | 61   | 211703     | 40.85   | ug/L   | 97       |
| 26) hexane                    | 2.263          | 57   | 1609726    | 167.55  | ug/L   | 84       |
| 27) di-isopropyl ether        | 2.431          | 45   | 730375     | 48.46   | ug/L   | 99       |
| 28) ethyl tert-butyl ether    | 2.604          | 59   | 2434714    | 212.36  | ug/L   | 100      |
| 29) 2-butanone                | 3.039          | 72   | 152493     | 196.73  | ug/L   | 96       |
| 30) 1,1-dichloroethane        | 2.520          | 63   | 274455     | 46.76   | ug/L   | 98       |
| 31) chloroprene               | 2.504          | 53   | 302206     | 47.79   | ug/L   | 98       |
| 32) acrylonitrile             | 2.536          | 52   | 103235     | 46.22   | ug/L   | 95       |
| 33) vinyl acetate             | 2.656          | 86   | 854        | 1.81    | ug/L   | 98       |
| 34) ethyl acetate             | 2.934          | 70   | 28289      | 56.60   | ug/L   | 100      |
| 35) 2,2-dichloropropane       | 2.829          | 77   | 195569     | 53.60   | ug/L   | 98       |
| 36) cis-1,2-dichloroethene    | 2.772          | 96   | 116365     | 46.91   | ug/L   | 94       |
| 37) propionitrile             | 3.202          | 54   | 640051     | 505.78  | ug/L   | 97       |
| 38) methyl acrylate           | 2.945          | 85   | 38222      | 46.64   | ug/L   | 97       |
| 39) bromochloromethane        | 2.877          | 128  | 43855      | 45.67   | ug/L   | 91       |
| 40) tetrahydrofuran           | 2.987          | 71   | 35893      | 52.95   | ug/L   | 98       |
| 41) chloroform                | 2.898          | 47   | 91384      | 48.41   | ug/L   | 97       |
| 43) methacrylonitrile         | 3.217          | 67   | 106378     | 49.74   | ug/L   | 94       |



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\KINJALD\November2022\11-3-22\vk38\  
 Data File : 1k01253.d  
 Acq On : 2 Nov 2022 5:02 pm  
 Operator : taylors  
 Sample : jd54531-3msd  
 Misc : MS63526,V1K0038,5,,,,20  
 ALS Vial : 32 Sample Multiplier: 1

Quant Time: Nov 03 09:39:00 2022

Quant Method : C:\msdchem\1\methods\M1K11.M

Quant Title : SW-846 Method 8260D, column Rtx-VMS 20m x 0.18 id x 1.0 um

QLast Update : Mon Oct 17 15:20:12 2022

Response via : Initial Calibration

| Compound                      | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|---------|--------|----------|
| 44) 1,1,1-trichloroethane     | 3.018 | 97   | 178214   | 50.31   | ug/L   | 97       |
| 45) cyclohexane               | 2.892 | 84   | 210252   | 47.01   | ug/L   | 92       |
| 46) 1,1-dichloropropene       | 3.076 | 75   | 184810   | 50.63   | ug/L   | 98       |
| 47) carbon tetrachloride      | 2.987 | 117  | 137233   | 42.69   | ug/L   | 99       |
| 48) isobutyl alcohol          | 3.249 | 43   | 474532   | 563.58  | ug/L   | 94       |
| 49) tert-amyl alcohol         | 3.317 | 55   | 141407   | 338.57  | ug/L   | 91       |
| 52) iso-octane                | 3.123 | 57   | 741116   | 43.19   | ug/L   | 98       |
| 53) benzene                   | 3.207 | 78   | 529757   | 45.22   | ug/L   | 97       |
| 54) tert-amyl methyl ether    | 3.238 | 73   | 468793   | 50.40   | ug/L   | 96       |
| 55) heptane                   | 3.160 | 57   | 119659   | 48.06   | ug/L   | 98       |
| 56) isopropyl acetate         | 3.396 | 87   | 48993    | 55.79   | ug/L # | 86       |
| 57) 1,2-dichloroethane        | 3.306 | 62   | 214173   | 49.06   | ug/L   | 97       |
| 58) n-butyl alcohol           | 3.632 | 56   | 872893   | 3013.67 | ug/L   | 98       |
| 59) ethyl acrylate            | 3.768 | 55   | 399093   | 56.71   | ug/L   | 99       |
| 60) trichloroethene           | 3.506 | 130  | 99638    | 42.21   | ug/L   | 95       |
| 61) 2-nitropropane            | 4.476 | 41   | 99427    | 49.57   | ug/L   | 98       |
| 62) 2-chloroethyl vinyl ether | 4.140 | 63   | 116098   | 45.41   | ug/L   | 99       |
| 63) methyl methacrylate       | 3.888 | 100  | 48885    | 49.77   | ug/L   | 99       |
| 64) 1,2-dichloropropane       | 3.799 | 63   | 171287   | 48.53   | ug/L   | 95       |
| 65) methylcyclohexane         | 3.511 | 55   | 264408   | 41.53   | ug/L   | 98       |
| 66) dibromomethane            | 3.742 | 93   | 76026    | 48.63   | ug/L   | 89       |
| 67) bromodichloromethane      | 3.826 | 83   | 169836   | 51.84   | ug/L   | 97       |
| 68) epichlorohydrin           | 4.339 | 57   | 214561   | 271.00  | ug/L   | 97       |
| 69) cis-1,3-dichloropropene   | 4.193 | 75   | 244027   | 52.61   | ug/L   | 97       |
| 70) 4-methyl-2-pentanone      | 4.560 | 58   | 543892   | 206.23  | ug/L   | 93       |
| 71) 3-methyl-1-butanol        | 4.408 | 70   | 248670   | 1227.53 | ug/L   | 99       |
| 74) toluene                   | 4.339 | 92   | 308399   | 46.46   | ug/L   | 97       |
| 75) ethyl methacrylate        | 4.675 | 69   | 235987   | 56.31   | ug/L   | 99       |
| 76) trans-1,3-dichloropropene | 4.591 | 75   | 229108   | 56.32   | ug/L   | 98       |
| 77) 1,1,2-trichloroethane     | 4.696 | 83   | 100786   | 51.52   | ug/L   | 98       |
| 78) tetrachloroethene         | 4.591 | 166  | 92550    | 43.74   | ug/L   | 100      |
| 79) 2-hexanone                | 5.105 | 58   | 599423   | 207.90  | ug/L   | 98       |
| 80) 1,3-dichloropropane       | 4.879 | 76   | 234842   | 51.24   | ug/L   | 98       |
| 81) butyl acetate             | 5.031 | 56   | 208014   | 59.73   | ug/L   | 93       |
| 82) dibromochloromethane      | 4.816 | 129  | 105583   | 48.11   | ug/L   | 98       |
| 83) 1,2-dibromoethane         | 4.984 | 107  | 113825   | 50.63   | ug/L   | 95       |
| 84) n-butyl ether             | 5.246 | 57   | 912551   | 50.66   | ug/L   | 99       |
| 85) chlorobenzene             | 5.336 | 112  | 298195   | 47.41   | ug/L   | 98       |
| 86) 1,1,1,2-tetrachloroethane | 5.372 | 131  | 96918    | 51.06   | ug/L   | 96       |
| 87) ethylbenzene              | 5.346 | 91   | 588656   | 46.51   | ug/L   | 97       |
| 88) m,p-xylene                | 5.446 | 106  | 415931   | 92.79   | ug/L   | 96       |
| 89) o-xylene                  | 5.755 | 106  | 206837   | 47.94   | ug/L   | 98       |
| 90) styrene                   | 5.792 | 104  | 352469   | 49.57   | ug/L   | 97       |
| 91) bromoform                 | 5.818 | 173  | 81140    | 51.48   | ug/L   | 99       |
| 92) butyl acrylate            | 5.870 | 55   | 504155   | 62.14   | ug/L   | 99       |
| 93) isopropylbenzene          | 5.986 | 105  | 546104   | 47.10   | ug/L   | 100      |
| 94) cis-1,4-dichloro-2-butene | 6.237 | 88   | 90573    | 56.43   | ug/L   | 100      |
| 97) bromobenzene              | 6.279 | 156  | 105905   | 50.05   | ug/L   | 90       |
| 98) 1,1,2,2-tetrachloroethane | 6.342 | 83   | 201629   | 58.32   | ug/L   | 97       |
| 99) trans-1,4-dichloro-2-b... | 6.479 | 53   | 109785   | 56.66   | ug/L   | 99       |
| 100) 1,2,3-trichloropropane   | 6.447 | 110  | 58338    | 57.99   | ug/L   | 99       |
| 101) n-propylbenzene          | 6.295 | 91   | 693878   | 50.69   | ug/L   | 99       |
| 102) 2-chlorotoluene          | 6.416 | 126  | 109691   | 49.82   | ug/L   | 96       |
| 103) 4-chlorotoluene          | 6.541 | 91   | 426487   | 51.44   | ug/L   | 96       |
| 104) 1,3,5-trimethylbenzene   | 6.442 | 105  | 449198   | 50.25   | ug/L   | 98       |
| 105) tert-butylbenzene        | 6.688 | 119  | 352683   | 49.18   | ug/L   | 95       |
| 106) 1,2,4-trimethylbenzene   | 6.746 | 105  | 467969   | 51.52   | ug/L   | 100      |
| 107) sec-butylbenzene         | 6.825 | 105  | 572123   | 49.93   | ug/L   | 96       |

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\KINJALD\November2022\11-3-22\vk38\  
 Data File : 1k01253.d  
 Acq On : 2 Nov 2022 5:02 pm  
 Operator : taylors  
 Sample : jd54531-3msd  
 Misc : MS63526,V1K0038,5,,,,20  
 ALS Vial : 32 Sample Multiplier: 1

Quant Time: Nov 03 09:39:00 2022  
 Quant Method : C:\msdchem\1\methods\M1k11.M  
 Quant Title : SW-846 Method 8260D, column Rtx-VMS 20m x 0.18 id x 1.0 um  
 QLast Update : Mon Oct 17 15:20:12 2022  
 Response via : Initial Calibration

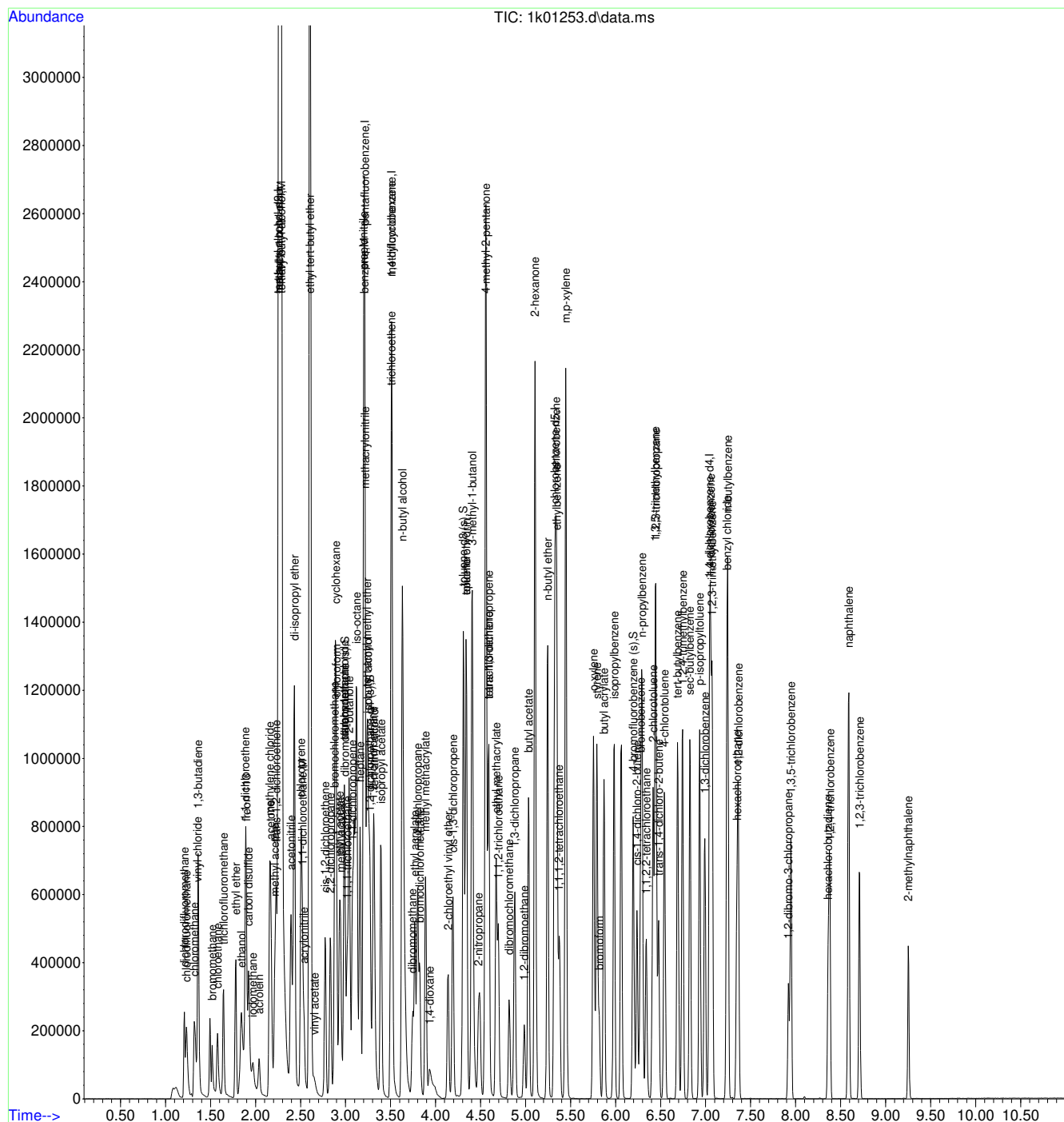
| Compound                       | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-------|--------|----------|
| 108) 1,3-dichlorobenzene       | 6.992 | 146  | 206514   | 47.46 | ug/L   | 99       |
| 109) p-isopropyltoluene        | 6.935 | 119  | 443317   | 50.54 | ug/L   | 97       |
| 110) 1,4-dichlorobenzene       | 7.055 | 146  | 204768   | 47.45 | ug/L   | 97       |
| 111) 1,2-dichlorobenzene       | 7.365 | 146  | 199374   | 46.97 | ug/L   | 96       |
| 112) 1,2,3-trimethylbenzene    | 7.071 | 105  | 483243   | 51.04 | ug/L   | 98       |
| 113) n-butylbenzene            | 7.244 | 92   | 290459   | 51.95 | ug/L # | 71       |
| 114) 1,2-dibromo-3-chloropr... | 7.920 | 157  | 50936    | 52.74 | ug/L   | 85       |
| 115) 1,3,5-trichlorobenzene    | 7.947 | 180  | 149583   | 47.51 | ug/L   | 97       |
| 116) 1,2,4-trichlorobenzene    | 8.382 | 180  | 133552   | 50.41 | ug/L   | 98       |
| 117) hexachlorobutadiene       | 8.361 | 225  | 50738    | 44.44 | ug/L   | 94       |
| 118) naphthalene               | 8.591 | 128  | 542407   | 52.13 | ug/L   | 99       |
| 119) 1,2,3-trichlorobenzene    | 8.712 | 180  | 130858   | 50.49 | ug/L   | 99       |
| 120) hexachloroethane          | 7.349 | 119  | 75081    | 50.58 | ug/L   | 96       |
| 121) benzyl chloride           | 7.239 | 126  | 68910    | 63.08 | ug/L   | 97       |
| 122) 2-methylnaphthalene       | 9.252 | 142  | 126302   | 25.70 | ug/L   | 94       |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\KINJALD\November2022\11-3-22\vk38\  
Data File : 1k01253.d  
Acq On : 2 Nov 2022 5:02 pm  
Operator : taylors  
Sample : jd54531-3msd  
Misc : MS63526,V1K0038,5,,,20  
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Nov 03 09:39:00 2022  
Quant Method : C:\msdchem\1\methods\M1K11.M  
Quant Title : SW-846 Method 8260D, column Rtx-VMS 20m x 0.18 id x 1.0 um  
QLast Update : Mon Oct 17 15:20:12 2022  
Response via : Initial Calibration



## SW-846 Method 8260

Data File : C:\msdchem\1\data\vk11\1k00254.d

Vial: 1

Acq On : 16 Oct 2022 4:49 pm

Operator: PrashanS

Sample : BFB

Inst : GCMS K

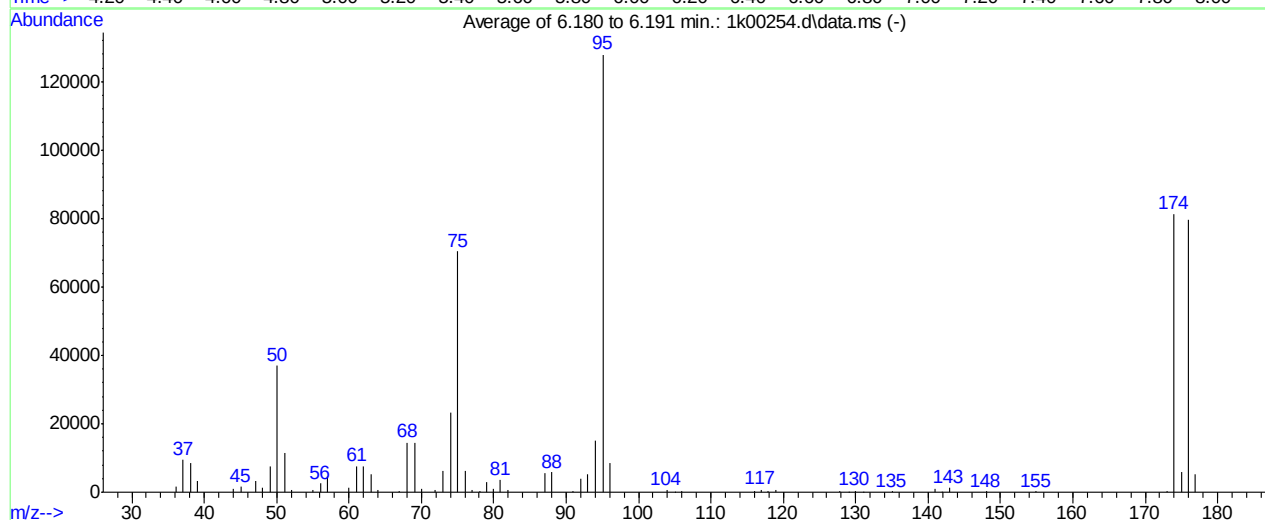
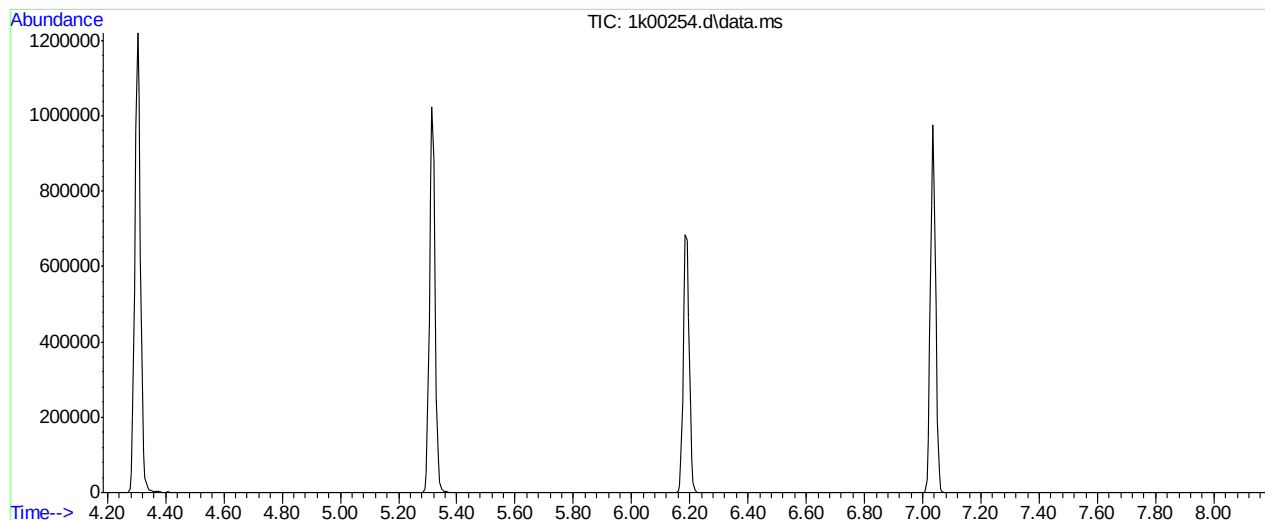
Misc : MS62894,V1K0011,5,,,1

Multiplr: 1.00

MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\M1K11.M (RTE Integrator)

Title : SW-846 Method 8260D, column Rtx-VMS 20m x 0.18 id x 1.0 um



AutoFind: Scans 1162, 1163, 1164; Background Corrected with Scan 1155

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|-------------|--------------|--------------|--------------|-----------|---------|------------------|
| 50          | 95           | 15           | 40           | 28.9      | 36947   | PASS             |
| 75          | 95           | 30           | 60           | 55.0      | 70421   | PASS             |
| 95          | 95           | 100          | 100          | 100.0     | 127949  | PASS             |
| 96          | 95           | 5            | 9            | 6.6       | 8411    | PASS             |
| 173         | 174          | 0.00         | 2            | 0.6       | 497     | PASS             |
| 174         | 95           | 50           | 120          | 63.6      | 81432   | PASS             |
| 175         | 174          | 5            | 9            | 7.2       | 5860    | PASS             |
| 176         | 174          | 95           | 101          | 97.8      | 79621   | PASS             |
| 177         | 176          | 5            | 9            | 6.5       | 5193    | PASS             |

1k00254.d M1K11.M Mon Oct 17 17:53:57 2022 RPT1

Average of 6.180 to 6.191 min.: 1k00254.d\data.ms

BFB

Modified:subtracted

| m/z   | abund. | m/z   | abund. | m/z   | abund. | m/z    | abund. |
|-------|--------|-------|--------|-------|--------|--------|--------|
| 36.05 | 1796   | 52.05 | 514    | 69.05 | 14272  | 80.90  | 3471   |
| 37.05 | 9396   | 55.05 | 505    | 70.05 | 885    | 81.90  | 766    |
| 38.10 | 8413   | 56.05 | 2544   | 71.95 | 636    | 87.00  | 5583   |
| 39.05 | 3218   | 57.05 | 4471   | 73.00 | 6394   | 88.00  | 5779   |
| 44.00 | 903    | 60.00 | 1462   | 74.05 | 23139  | 90.95  | 481    |
| 45.05 | 1614   | 61.10 | 7686   | 75.05 | 70421  | 92.00  | 3839   |
| 47.05 | 3210   | 62.05 | 7613   | 76.05 | 6137   | 93.00  | 5276   |
| 48.00 | 1170   | 63.00 | 5252   | 77.00 | 805    | 94.05  | 15014  |
| 49.10 | 7577   | 64.05 | 600    | 78.05 | 453    | 95.05  | 127949 |
| 50.10 | 36947  | 67.00 | 326    | 78.95 | 2994   | 96.00  | 8411   |
| 51.10 | 11609  | 68.05 | 14486  | 80.00 | 1072   | 103.90 | 558    |

Average of 6.180 to 6.191 min.: 1k00254.d\data.ms

BFB

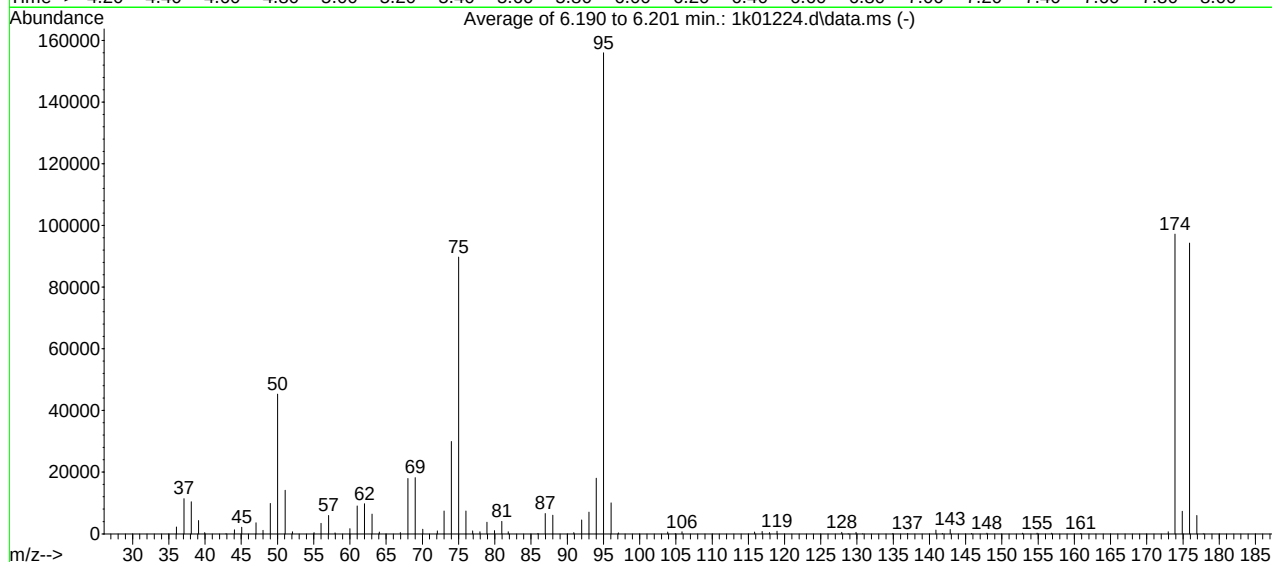
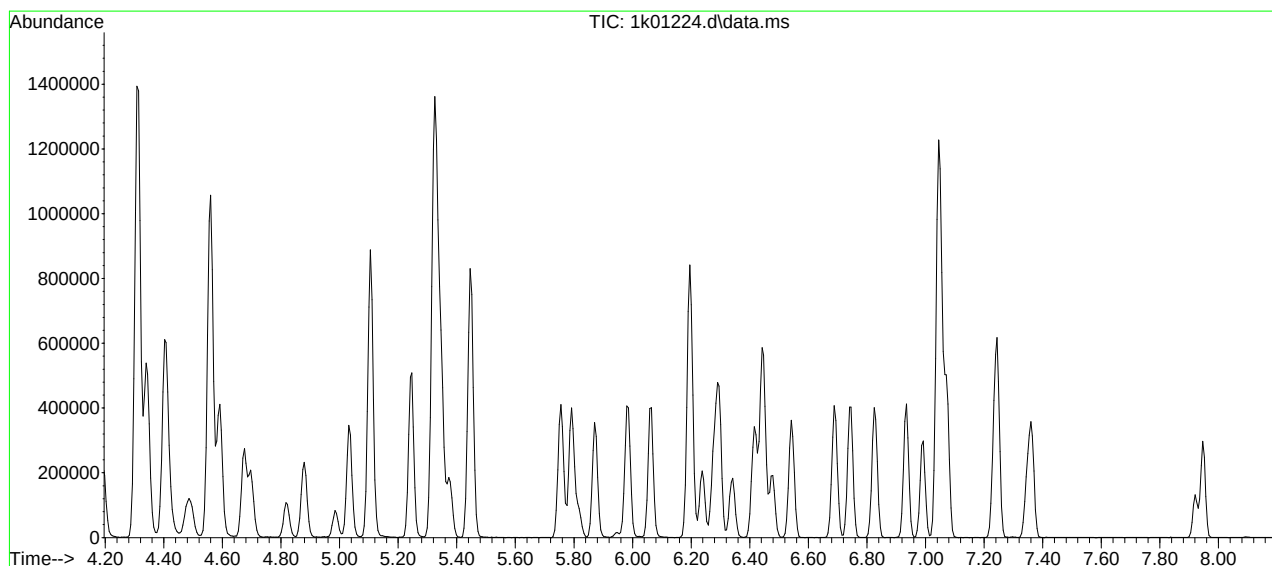
Modified:subtracted

| m/z    | abund. | m/z    | abund. | m/z | abund. | m/z | abund. |
|--------|--------|--------|--------|-----|--------|-----|--------|
| 105.00 | 81     | 140.95 | 1059   |     |        |     |        |
| 105.95 | 463    | 141.90 | 77     |     |        |     |        |
| 115.95 | 413    | 142.95 | 1301   |     |        |     |        |
| 116.90 | 743    | 148.00 | 210    |     |        |     |        |
| 117.90 | 325    | 154.90 | 211    |     |        |     |        |
| 118.95 | 537    | 172.95 | 497    |     |        |     |        |
| 127.85 | 376    | 174.00 | 81432  |     |        |     |        |
| 129.00 | 83     | 175.00 | 5860   |     |        |     |        |
| 129.95 | 403    | 176.00 | 79621  |     |        |     |        |
| 131.00 | 75     | 176.95 | 5193   |     |        |     |        |
| 135.00 | 186    |        |        |     |        |     |        |

## SW-846 Method 8260

Data File : C:\msdchem\1\data\re...03-22\v1k38\1k01224.d Vial: 3  
Acq On : 2 Nov 2022 8:49 am Operator: taylors  
Sample : BFB Inst : GCMS K  
Misc : MS63534,V1K0038,5,,,1 Multiplr: 1.00  
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\M1K11.M (RTE Integrator)  
Title : SW-846 Method 8260D, column Rtx-VMS 20m x 0.18 id x 1.0 um



AutoFind: Scans 1164, 1165, 1166; Background Corrected with Scan 1156

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|-------------|--------------|--------------|--------------|-----------|---------|------------------|
| 50          | 95           | 15           | 40           | 29.0      | 45283   | PASS             |
| 75          | 95           | 30           | 60           | 57.5      | 89720   | PASS             |
| 95          | 95           | 100          | 100          | 100.0     | 155947  | PASS             |
| 96          | 95           | 5            | 9            | 6.4       | 10022   | PASS             |
| 173         | 174          | 0.00         | 2            | 0.7       | 664     | PASS             |
| 174         | 95           | 50           | 120          | 62.3      | 97171   | PASS             |
| 175         | 174          | 5            | 9            | 7.5       | 7283    | PASS             |
| 176         | 174          | 95           | 101          | 97.0      | 94296   | PASS             |
| 177         | 176          | 5            | 9            | 6.3       | 5983    | PASS             |

Average of 6.190 to 6.201 min.: 1k01224.d\data.ms

BFB

Modified:subtracted

| m/z   | abund. | m/z   | abund. | m/z   | abund. | m/z   | abund. |
|-------|--------|-------|--------|-------|--------|-------|--------|
| 36.05 | 2216   | 50.00 | 45283  | 64.05 | 585    | 77.95 | 698    |
| 37.10 | 11375  | 51.05 | 14148  | 66.95 | 462    | 78.90 | 3769   |
| 38.10 | 10448  | 52.05 | 652    | 68.00 | 17935  | 79.95 | 1067   |
| 39.10 | 4289   | 55.05 | 385    | 69.00 | 18198  | 80.95 | 4019   |
| 39.95 | 395    | 56.00 | 3415   | 70.05 | 1504   | 81.85 | 645    |
| 42.90 | 77     | 57.05 | 5941   | 72.05 | 980    | 85.95 | 171    |
| 44.05 | 1338   | 57.95 | 300    | 73.00 | 7435   | 86.95 | 6601   |
| 45.05 | 2114   | 60.00 | 1691   | 74.00 | 29941  | 88.00 | 6071   |
| 47.05 | 3599   | 61.00 | 9081   | 75.00 | 89720  | 90.90 | 382    |
| 48.00 | 1103   | 62.00 | 9742   | 76.00 | 7406   | 92.00 | 4471   |
| 49.00 | 9882   | 63.05 | 6389   | 76.95 | 950    | 93.00 | 7029   |

Average of 6.190 to 6.201 min.: 1k01224.d\data.ms

BFB

Modified:subtracted

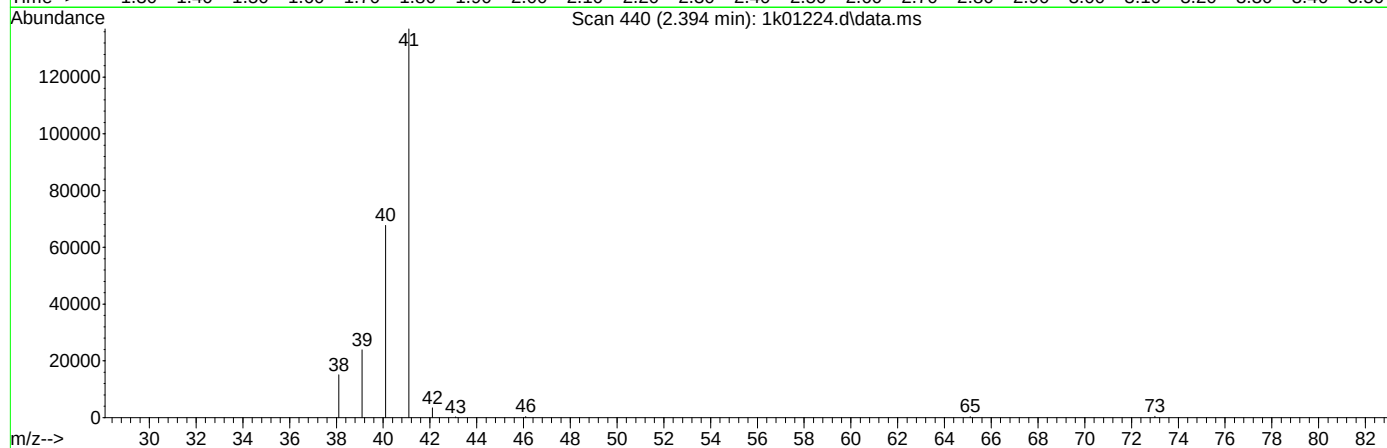
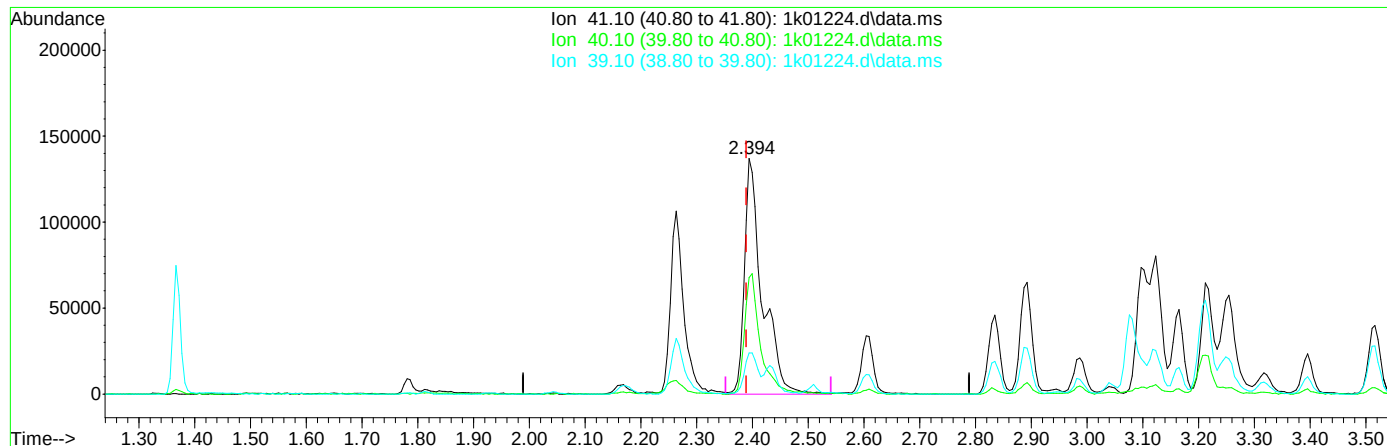
| m/z    | abund. | m/z    | abund. | m/z    | abund. | m/z | abund. |
|--------|--------|--------|--------|--------|--------|-----|--------|
| 94.00  | 18040  | 127.90 | 489    | 152.85 | 194    |     |        |
| 95.00  | 155947 | 128.80 | 88     | 154.85 | 276    |     |        |
| 96.05  | 10022  | 129.85 | 474    | 156.85 | 203    |     |        |
| 97.05  | 329    | 130.80 | 88     | 160.90 | 101    |     |        |
| 103.85 | 580    | 134.90 | 75     | 172.95 | 664    |     |        |
| 104.90 | 78     | 137.00 | 122    | 173.90 | 97171  |     |        |
| 105.85 | 679    | 140.90 | 1264   | 174.90 | 7283   |     |        |
| 115.85 | 596    | 141.80 | 97     | 175.90 | 94296  |     |        |
| 116.90 | 815    | 142.85 | 1371   | 176.90 | 5983   |     |        |
| 117.90 | 397    | 145.80 | 123    | 177.80 | 76     |     |        |
| 118.95 | 857    | 147.95 | 234    |        |        |     |        |

## Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\renee\5.November\11-03-22\v1k38\  
Data File : 1k01224.d  
Acq On : 2 Nov 2022 8:49 am  
Operator : taylors  
Sample : CC11-20  
Misc : MS63534,V1K0038,5,,,,,1  
ALS Vial : 3 Sample Multiplier: 1

Inst : GCMS K

Quant Method : C:\msdchem\1\methods\M1K11.M  
Quant Results File: M1K11.RES  
Quant Time: Nov 02 10:19:30 2022  
Quant Title : SW-846 Method 8260D, column Rtx-VMS 20m x 0.18 id x 1.0 um  
QLast Update : Mon Oct 17 15:20:12 2022  
Response via : Initial Calibration



TIC: 1k01224.d\data.ms

(19) acetonitrile

2.394min (+0.005) 196.72ug/L

response 306041

| Ion   | Exp%  | Act%  |
|-------|-------|-------|
| 41.10 | 100   | 100   |
| 40.10 | 52.20 | 49.55 |
| 39.10 | 18.90 | 17.25 |
| 0.00  | 0.00  | 0.00  |

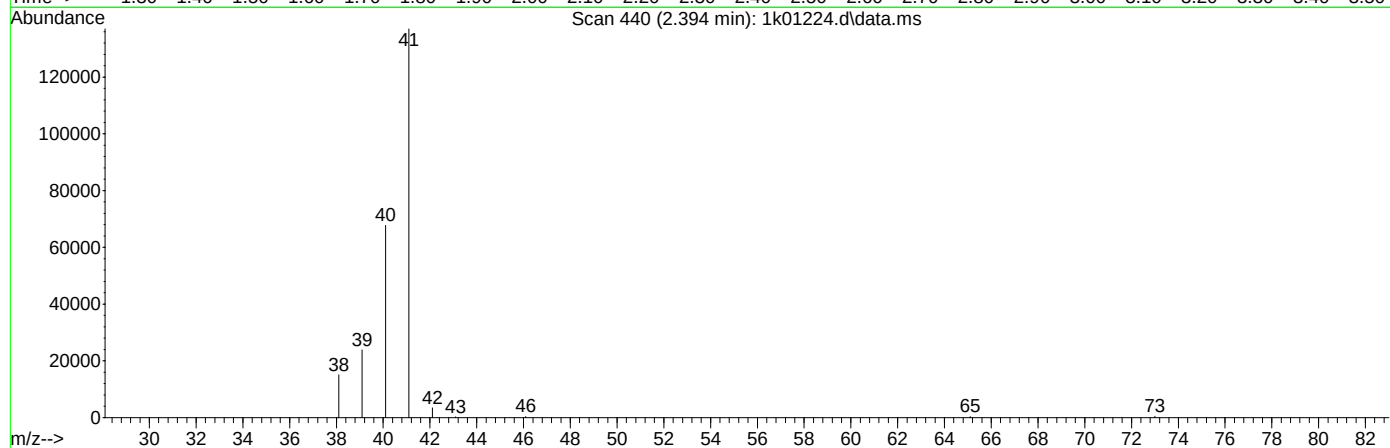
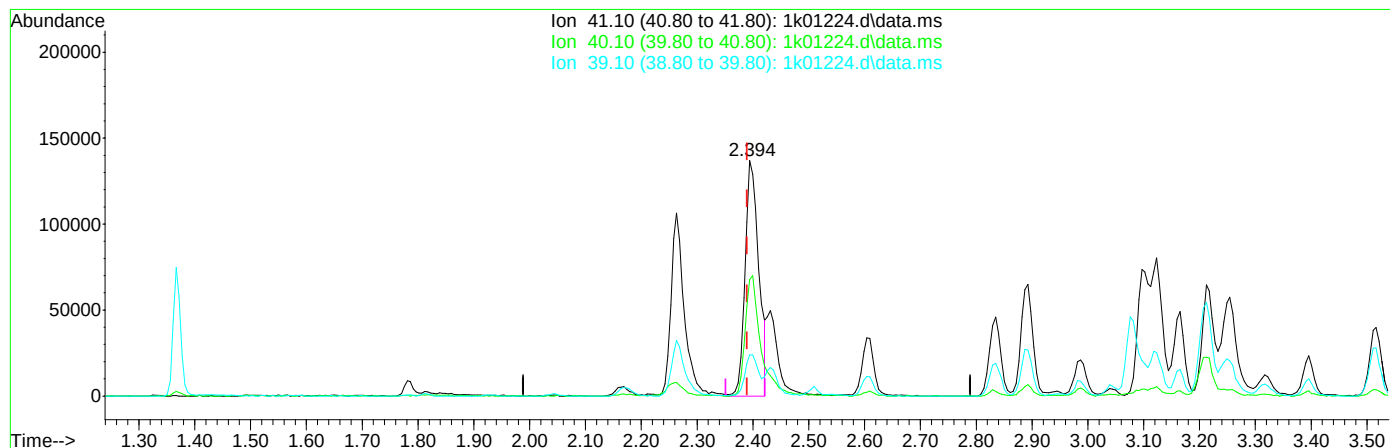


## Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\renee\5.November\11-03-22\v1k38\  
Data File : 1k01224.d  
Acq On : 2 Nov 2022 8:49 am  
Operator : taylors  
Sample : CC11-20  
Misc : MS63534,V1K0038,5,,,,,1  
ALS Vial : 3 Sample Multiplier: 1

Inst : GCMS K

Quant Method : C:\msdchem\1\methods\M1K11.M  
Quant Results File: M1K11.RES  
Quant Time: Nov 02 10:19:30 2022  
Quant Title : SW-846 Method 8260D, column Rtx-VMS 20m x 0.18 id x 1.0 um  
QLast Update : Mon Oct 17 15:20:12 2022  
Response via : Initial Calibration



TIC: 1k01224.d\data.ms

(19) acetonitrile

2.394min (+0.005) 149.59ug/L m

response 232720

| Ion   | Exp%  | Act%  |
|-------|-------|-------|
| 41.10 | 100   | 100   |
| 40.10 | 52.20 | 49.46 |
| 39.10 | 18.90 | 17.43 |
| 0.00  | 0.00  | 0.00  |

SW-846 Method 8260

Data File : C:\msdchem\1\DATA\VU2015\1U49554.D

Vial: 1

Acq On : 28 Oct 2022 5:04 pm

Operator: edwardd

Sample : bfb

Inst : GCMS-U

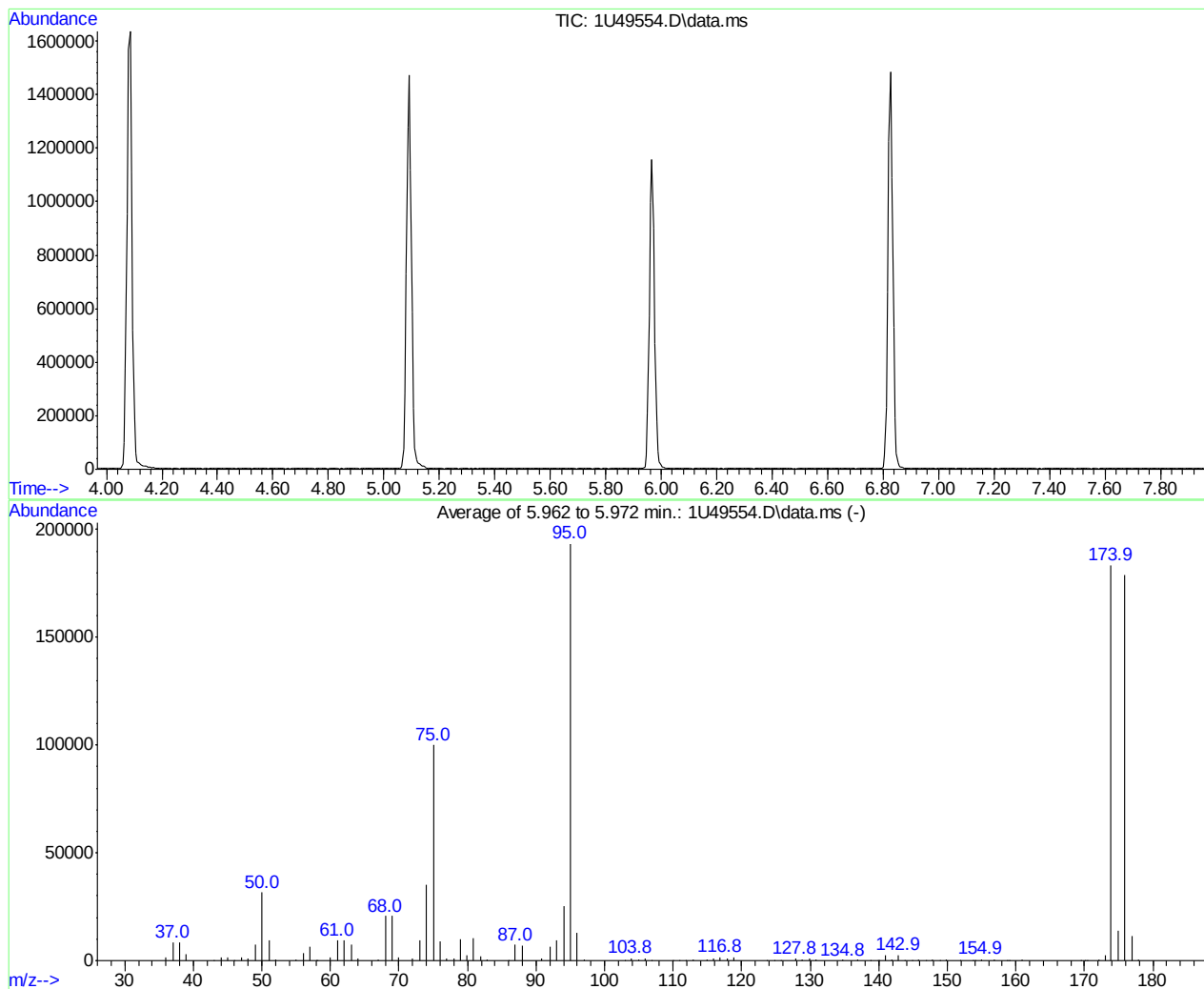
Misc : MS63374,V1U2015,5,,,1

Multiplr: 1.00

MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M1U2015.M (RTE Integrator)

Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um



AutoFind: Scans 987, 988, 989; Background Corrected with Scan 979

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|-------------|--------------|--------------|--------------|-----------|---------|------------------|
| 50          | 95           | 15           | 40           | 16.3      | 31576   | PASS             |
| 75          | 95           | 30           | 60           | 51.7      | 100053  | PASS             |
| 95          | 95           | 100          | 100          | 100.0     | 193451  | PASS             |
| 96          | 95           | 5            | 9            | 6.6       | 12856   | PASS             |
| 173         | 174          | 0.00         | 2            | 1.4       | 2503    | PASS             |
| 174         | 95           | 50           | 120          | 94.8      | 183339  | PASS             |
| 175         | 174          | 5            | 9            | 7.7       | 14079   | PASS             |
| 176         | 174          | 95           | 101          | 97.7      | 179093  | PASS             |
| 177         | 176          | 5            | 9            | 6.4       | 11382   | PASS             |

Average of 5.962 to 5.972 min.: 1U49554.D\data.ms

bfb

Modified:subtracted

| m/z   | abund. | m/z   | abund. | m/z   | abund. | m/z   | abund. |
|-------|--------|-------|--------|-------|--------|-------|--------|
| 36.00 | 1598   | 50.00 | 31576  | 63.00 | 7640   | 76.95 | 1146   |
| 37.00 | 8581   | 51.00 | 9531   | 64.00 | 793    | 77.95 | 870    |
| 38.00 | 8378   | 52.05 | 449    | 66.95 | 607    | 78.90 | 9691   |
| 39.00 | 3194   | 54.95 | 689    | 68.00 | 20600  | 79.90 | 2500   |
| 43.05 | 106    | 56.00 | 3333   | 69.00 | 20907  | 80.90 | 10186  |
| 44.00 | 1487   | 57.00 | 6248   | 70.00 | 1681   | 81.90 | 2207   |
| 44.95 | 1691   | 57.90 | 93     | 71.95 | 1097   | 82.90 | 291    |
| 45.95 | 250    | 58.10 | 189    | 73.00 | 9579   | 85.90 | 131    |
| 47.00 | 1703   | 59.95 | 1649   | 74.00 | 34997  | 86.95 | 7332   |
| 48.00 | 977    | 61.00 | 9204   | 75.00 | 100053 | 87.95 | 6957   |
| 49.00 | 7383   | 62.00 | 9223   | 76.00 | 8773   | 90.85 | 861    |

Average of 5.962 to 5.972 min.: 1U49554.D\data.ms

bfb

Modified:subtracted

| m/z    | abund. | m/z    | abund. | m/z    | abund. | m/z    | abund. |
|--------|--------|--------|--------|--------|--------|--------|--------|
| 92.00  | 6484   | 109.90 | 154    | 125.70 | 65     | 141.90 | 329    |
| 93.00  | 9241   | 110.95 | 258    | 127.85 | 914    | 142.90 | 2663   |
| 94.00  | 25368  | 111.80 | 57     | 128.85 | 369    | 143.80 | 94     |
| 95.00  | 193451 | 112.85 | 310    | 129.90 | 850    | 144.80 | 186    |
| 96.00  | 12856  | 114.90 | 268    | 130.85 | 293    | 145.85 | 279    |
| 97.00  | 342    | 115.90 | 870    | 134.80 | 482    | 146.95 | 137    |
| 102.95 | 223    | 116.85 | 1555   | 136.95 | 461    | 147.85 | 591    |
| 103.85 | 1226   | 117.85 | 890    | 138.70 | 71     | 148.90 | 195    |
| 104.90 | 325    | 118.85 | 1258   | 139.90 | 74     | 149.90 | 295    |
| 105.85 | 1209   | 123.70 | 52     | 140.10 | 99     | 151.90 | 146    |
| 106.85 | 233    | 124.80 | 50     | 140.90 | 2614   | 153.75 | 121    |

Average of 5.962 to 5.972 min.: 1U49554.D\data.ms

bfb

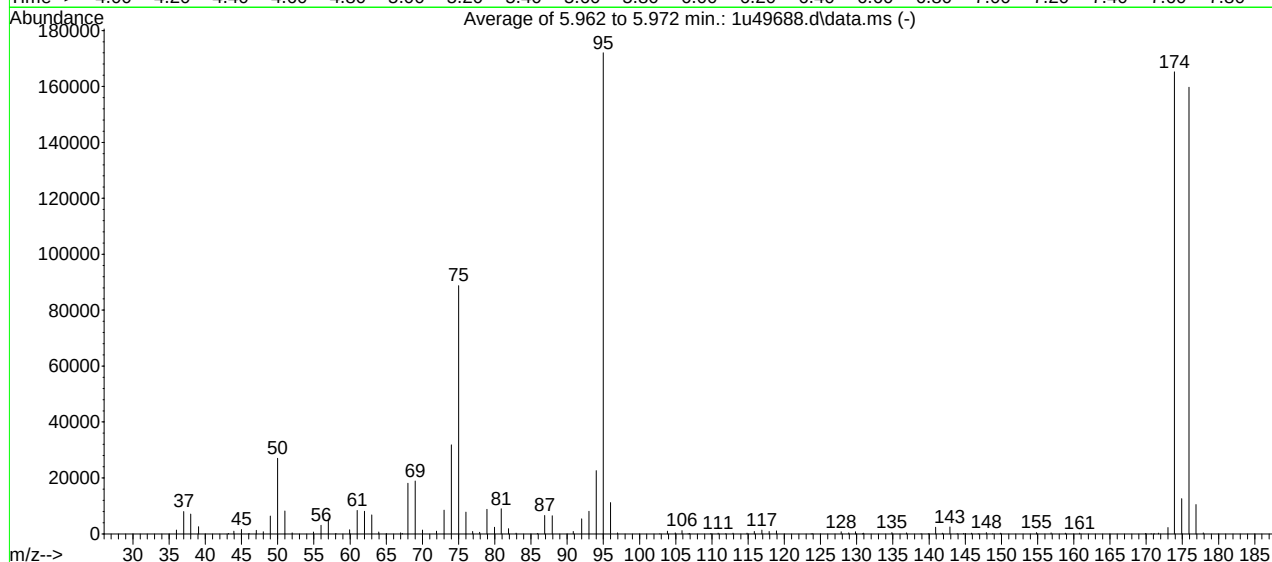
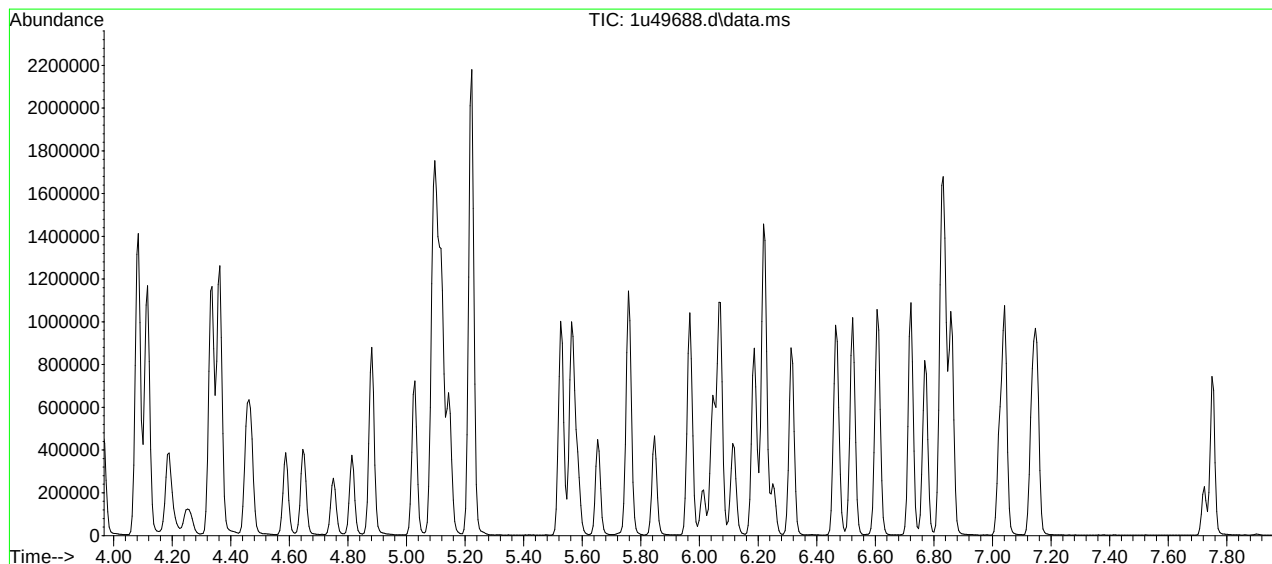
Modified:subtracted

| m/z    | abund. | m/z    | abund. | m/z | abund. | m/z | abund. |
|--------|--------|--------|--------|-----|--------|-----|--------|
| 154.00 | 80     | 173.90 | 183339 |     |        |     |        |
| 154.95 | 514    | 174.90 | 14079  |     |        |     |        |
| 156.85 | 281    | 175.90 | 179093 |     |        |     |        |
| 158.70 | 144    | 176.90 | 11382  |     |        |     |        |
| 159.00 | 65     | 177.85 | 306    |     |        |     |        |
| 160.85 | 306    |        |        |     |        |     |        |
| 169.50 | 56     |        |        |     |        |     |        |
| 170.10 | 62     |        |        |     |        |     |        |
| 170.40 | 114    |        |        |     |        |     |        |
| 172.15 | 386    |        |        |     |        |     |        |
| 173.00 | 2503   |        |        |     |        |     |        |

## SW-846 Method 8260

Data File : C:\msdchem\1\data\An...022\v1u2018\1u49688.d Vial: 51  
Acq On : 1 Nov 2022 9:11 pm Operator: edwardd  
Sample : bfb Inst : GCMS-U  
Misc : MS63577,V1U2018,5,,,1 Multiplr: 1.00  
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M1U2015.M (RTE Integrator)  
Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um



AutoFind: Scans 987, 988, 989; Background Corrected with Scan 979

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|-------------|--------------|--------------|--------------|-----------|---------|------------------|
| 50          | 95           | 15           | 40           | 15.7      | 26968   | PASS             |
| 75          | 95           | 30           | 60           | 51.6      | 88800   | PASS             |
| 95          | 95           | 100          | 100          | 100.0     | 172011  | PASS             |
| 96          | 95           | 5            | 9            | 6.5       | 11193   | PASS             |
| 173         | 174          | 0.00         | 2            | 1.3       | 2228    | PASS             |
| 174         | 95           | 50           | 120          | 96.0      | 165184  | PASS             |
| 175         | 174          | 5            | 9            | 7.6       | 12550   | PASS             |
| 176         | 174          | 95           | 101          | 96.7      | 159680  | PASS             |
| 177         | 176          | 5            | 9            | 6.6       | 10462   | PASS             |

Average of 5.962 to 5.972 min.: 1u49688.d\data.ms

bfb

Modified:subtracted

| m/z   | abund. | m/z   | abund. | m/z   | abund. | m/z   | abund. |
|-------|--------|-------|--------|-------|--------|-------|--------|
| 36.00 | 1334   | 50.00 | 26968  | 63.95 | 632    | 76.00 | 7805   |
| 37.00 | 7956   | 51.00 | 8144   | 65.00 | 59     | 76.95 | 824    |
| 38.00 | 7099   | 52.00 | 383    | 67.00 | 362    | 77.90 | 589    |
| 39.05 | 2614   | 54.95 | 608    | 67.20 | 129    | 78.90 | 8787   |
| 43.20 | 125    | 56.00 | 3095   | 68.00 | 18083  | 79.95 | 2337   |
| 43.95 | 1006   | 57.00 | 5325   | 69.00 | 18908  | 80.90 | 9014   |
| 45.00 | 1536   | 58.05 | 173    | 70.00 | 1398   | 81.90 | 1883   |
| 46.05 | 171    | 59.95 | 1450   | 71.95 | 914    | 82.95 | 286    |
| 47.05 | 1299   | 61.00 | 8394   | 73.00 | 8518   | 85.90 | 163    |
| 48.00 | 752    | 62.00 | 8077   | 74.00 | 31776  | 86.90 | 6592   |
| 49.00 | 6385   | 63.00 | 6813   | 75.00 | 88800  | 87.95 | 6442   |

Average of 5.962 to 5.972 min.: 1u49688.d\data.ms

bfb

Modified:subtracted

| m/z    | abund. | m/z    | abund. | m/z    | abund. | m/z    | abund. |
|--------|--------|--------|--------|--------|--------|--------|--------|
| 90.85  | 828    | 106.70 | 70     | 123.70 | 65     | 140.90 | 2374   |
| 92.00  | 5350   | 106.90 | 141    | 123.90 | 53     | 141.85 | 259    |
| 93.00  | 8098   | 109.85 | 197    | 127.85 | 800    | 142.90 | 2449   |
| 94.00  | 22571  | 110.85 | 254    | 128.90 | 338    | 143.90 | 57     |
| 95.00  | 172011 | 111.90 | 61     | 129.85 | 715    | 144.80 | 147    |
| 96.00  | 11193  | 112.90 | 256    | 130.80 | 61     | 145.00 | 106    |
| 96.95  | 315    | 114.85 | 279    | 130.95 | 247    | 145.85 | 277    |
| 102.80 | 51     | 115.85 | 846    | 134.85 | 431    | 146.80 | 61     |
| 103.85 | 945    | 116.90 | 1326   | 136.90 | 362    | 147.90 | 462    |
| 104.95 | 326    | 117.90 | 863    | 138.90 | 53     | 148.80 | 67     |
| 105.85 | 1135   | 118.90 | 1098   | 139.90 | 83     | 149.85 | 285    |

Average of 5.962 to 5.972 min.: 1u49688.d\data.ms

bfb

Modified:subtracted

| m/z    | abund. | m/z    | abund. | m/z | abund. | m/z | abund. |
|--------|--------|--------|--------|-----|--------|-----|--------|
| 154.85 | 478    | 175.90 | 159680 |     |        |     |        |
| 156.85 | 315    | 176.90 | 10462  |     |        |     |        |
| 158.85 | 268    | 177.90 | 317    |     |        |     |        |
| 160.80 | 238    |        |        |     |        |     |        |
| 169.90 | 113    |        |        |     |        |     |        |
| 170.70 | 64     |        |        |     |        |     |        |
| 171.10 | 64     |        |        |     |        |     |        |
| 171.70 | 220    |        |        |     |        |     |        |
| 173.00 | 2228   |        |        |     |        |     |        |
| 173.90 | 165184 |        |        |     |        |     |        |
| 174.90 | 12550  |        |        |     |        |     |        |

7.5.4

7

## SW-846 Method 8260

Data File : C:\msdchem\1\DATA\VU2015\2U49555.D

Vial: 1

Acq On : 28 Oct 2022 5:19 pm

Operator: edwardd

Sample : bfb

Inst : GCMS-U

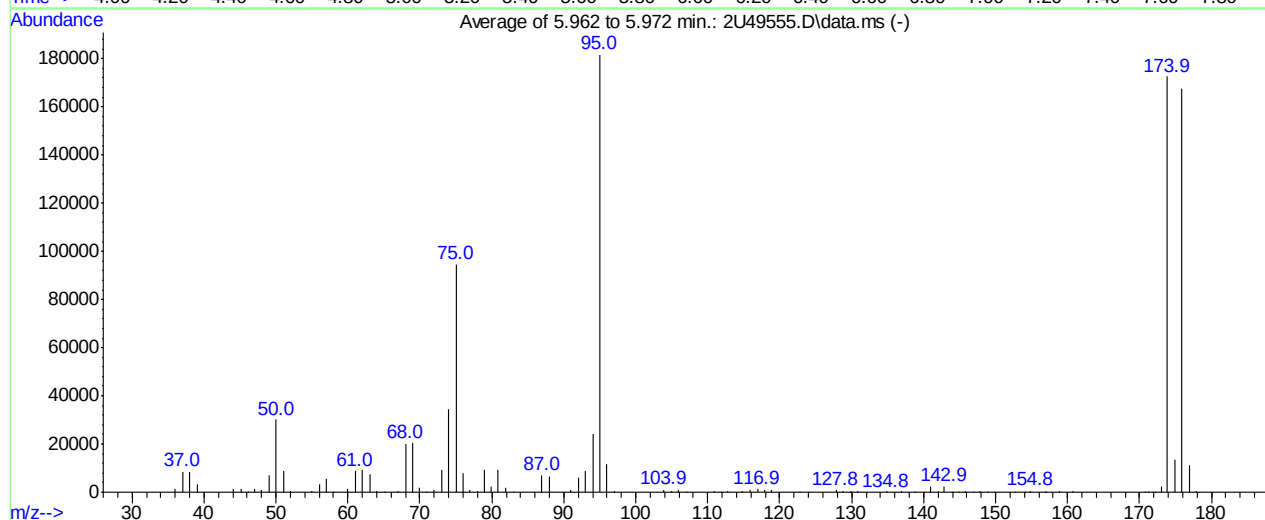
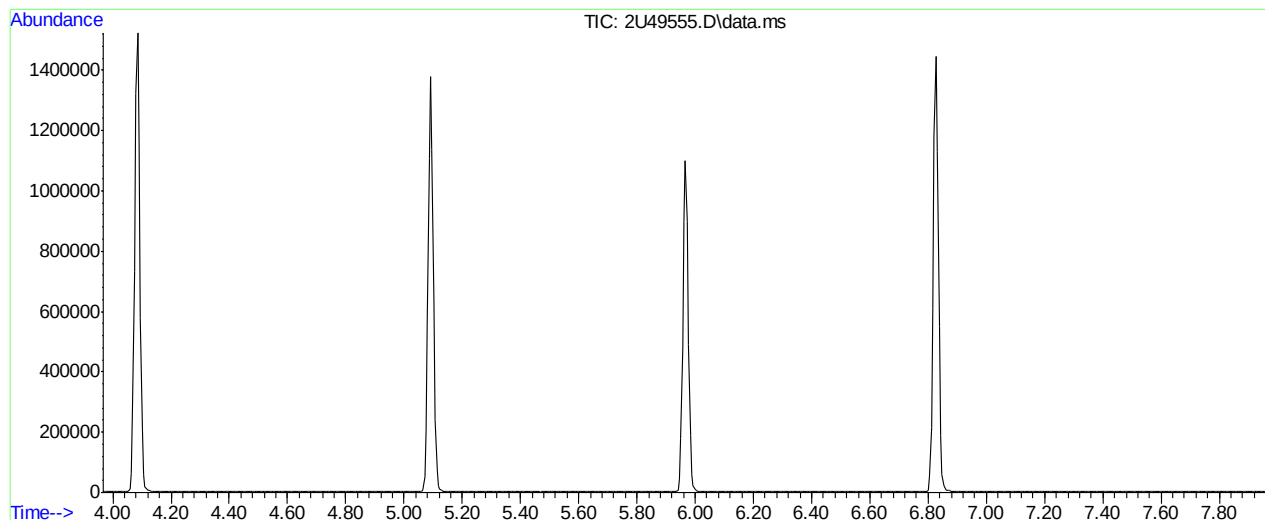
Misc : MS63374,V2U2015,5,,,1

Multiplr: 1.00

MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M2U2015.M (RTE Integrator)

Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um



AutoFind: Scans 987, 988, 989; Background Corrected with Scan 980

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|-------------|--------------|--------------|--------------|-----------|---------|------------------|
| 50          | 95           | 15           | 40           | 16.6      | 30107   | PASS             |
| 75          | 95           | 30           | 60           | 52.1      | 94680   | PASS             |
| 95          | 95           | 100          | 100          | 100.0     | 181739  | PASS             |
| 96          | 95           | 5            | 9            | 6.5       | 11835   | PASS             |
| 173         | 174          | 0.00         | 2            | 1.3       | 2289    | PASS             |
| 174         | 95           | 50           | 120          | 95.0      | 172565  | PASS             |
| 175         | 174          | 5            | 9            | 7.9       | 13674   | PASS             |
| 176         | 174          | 95           | 101          | 97.2      | 167744  | PASS             |
| 177         | 176          | 5            | 9            | 6.6       | 10992   | PASS             |

Average of 5.962 to 5.972 min.: 2U49555.D\data.ms

bfb

Modified:subtracted

| m/z   | abund. | m/z   | abund. | m/z   | abund. | m/z   | abund. |
|-------|--------|-------|--------|-------|--------|-------|--------|
| 36.00 | 1467   | 50.00 | 30107  | 64.05 | 674    | 76.00 | 7888   |
| 37.05 | 8454   | 51.00 | 9034   | 65.10 | 50     | 77.00 | 968    |
| 38.00 | 8383   | 52.00 | 506    | 66.95 | 523    | 78.00 | 593    |
| 39.05 | 3303   | 54.95 | 509    | 68.00 | 20024  | 78.90 | 9495   |
| 39.95 | 40     | 56.00 | 3457   | 69.00 | 20504  | 79.95 | 2492   |
| 44.00 | 1493   | 57.00 | 5575   | 70.00 | 1859   | 80.90 | 9436   |
| 45.10 | 1635   | 58.00 | 145    | 70.90 | 63     | 81.90 | 1943   |
| 46.05 | 175    | 59.95 | 1593   | 72.00 | 1047   | 83.00 | 158    |
| 47.05 | 1530   | 61.00 | 8739   | 73.00 | 9152   | 85.85 | 123    |
| 48.00 | 815    | 62.00 | 9550   | 74.00 | 34320  | 86.95 | 7120   |
| 49.00 | 6897   | 63.00 | 7555   | 75.00 | 94680  | 87.95 | 6749   |

Average of 5.962 to 5.972 min.: 2U49555.D\data.ms

bfb

Modified:subtracted

| m/z    | abund. | m/z    | abund. | m/z    | abund. | m/z    | abund. |
|--------|--------|--------|--------|--------|--------|--------|--------|
| 90.90  | 1024   | 110.95 | 277    | 128.85 | 336    | 144.85 | 198    |
| 92.00  | 6159   | 111.80 | 154    | 129.85 | 672    | 145.75 | 360    |
| 93.00  | 8687   | 112.80 | 257    | 130.85 | 359    | 146.90 | 53     |
| 94.00  | 24451  | 114.85 | 260    | 134.85 | 465    | 147.80 | 553    |
| 95.00  | 181739 | 115.85 | 808    | 136.90 | 552    | 148.85 | 202    |
| 96.00  | 11835  | 116.90 | 1287   | 138.80 | 50     | 149.90 | 245    |
| 97.05  | 439    | 117.90 | 832    | 140.00 | 125    | 152.70 | 58     |
| 103.90 | 1161   | 118.85 | 1102   | 140.95 | 2439   | 154.00 | 74     |
| 104.90 | 373    | 122.70 | 62     | 142.00 | 307    | 154.85 | 482    |
| 105.85 | 1114   | 123.90 | 80     | 142.90 | 2480   | 156.80 | 130    |
| 106.95 | 157    | 127.85 | 800    | 143.90 | 61     | 156.95 | 191    |

Average of 5.962 to 5.972 min.: 2U49555.D\data.ms

bfb

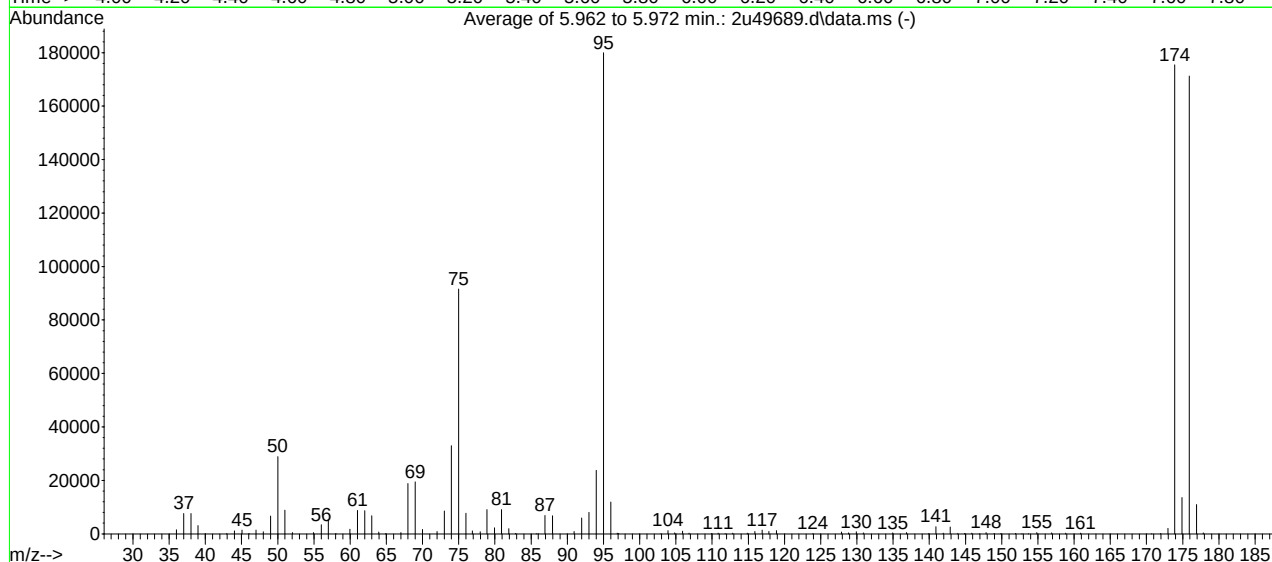
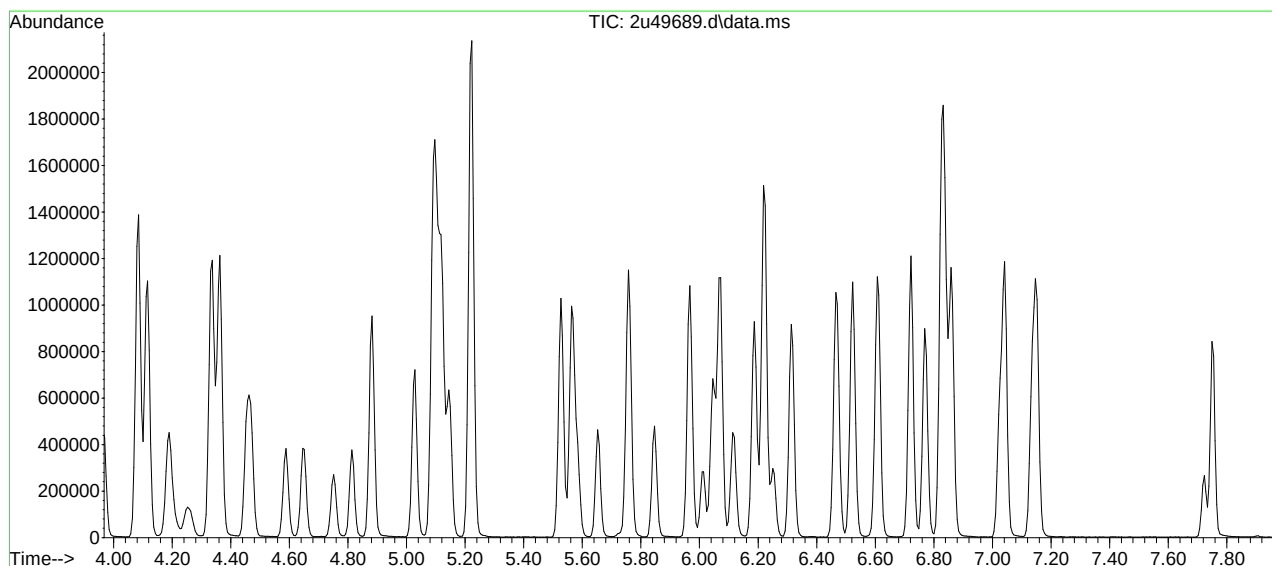
Modified:subtracted

| m/z    | abund. | m/z    | abund. | m/z | abund. | m/z | abund. |
|--------|--------|--------|--------|-----|--------|-----|--------|
| 158.85 | 283    | 177.85 | 370    |     |        |     |        |
| 160.80 | 320    |        |        |     |        |     |        |
| 170.65 | 143    |        |        |     |        |     |        |
| 171.20 | 217    |        |        |     |        |     |        |
| 171.80 | 147    |        |        |     |        |     |        |
| 172.10 | 124    |        |        |     |        |     |        |
| 173.05 | 2289   |        |        |     |        |     |        |
| 173.90 | 172565 |        |        |     |        |     |        |
| 174.90 | 13674  |        |        |     |        |     |        |
| 175.90 | 167744 |        |        |     |        |     |        |
| 176.90 | 10992  |        |        |     |        |     |        |

SW-846 Method 8260

Data File : C:\msdchem\1\data\An...022\v2u2018\2u49689.d Vial: 52  
Acq On : 1 Nov 2022 9:25 pm Operator: edwardd  
Sample : bfb Inst : GCMS-U  
Misc : MS63577,V2U2018,5,,,1 Multiplr: 1.00  
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M2U2015.M (RTE Integrator)  
Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um



AutoFind: Scans 987, 988, 989; Background Corrected with Scan 979

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|-------------|--------------|--------------|--------------|-----------|---------|------------------|
| 50          | 95           | 15           | 40           | 16.0      | 28853   | PASS             |
| 75          | 95           | 30           | 60           | 50.9      | 91627   | PASS             |
| 95          | 95           | 100          | 100          | 100.0     | 179925  | PASS             |
| 96          | 95           | 5            | 9            | 6.6       | 11883   | PASS             |
| 173         | 174          | 0.00         | 2            | 1.2       | 2060    | PASS             |
| 174         | 95           | 50           | 120          | 97.5      | 175403  | PASS             |
| 175         | 174          | 5            | 9            | 7.8       | 13634   | PASS             |
| 176         | 174          | 95           | 101          | 97.7      | 171285  | PASS             |
| 177         | 176          | 5            | 9            | 6.4       | 10931   | PASS             |



Average of 5.962 to 5.972 min.: 2u49689.d\data.ms

bfb

Modified:subtracted

| m/z   | abund. | m/z   | abund. | m/z   | abund. | m/z   | abund. |
|-------|--------|-------|--------|-------|--------|-------|--------|
| 36.00 | 1553   | 49.00 | 6638   | 63.00 | 6822   | 76.00 | 7711   |
| 37.00 | 7626   | 50.00 | 28853  | 63.95 | 725    | 76.90 | 1152   |
| 38.00 | 7559   | 51.00 | 8893   | 64.90 | 55     | 77.95 | 770    |
| 39.00 | 3104   | 52.05 | 427    | 67.00 | 512    | 78.90 | 9094   |
| 40.00 | 50     | 54.95 | 445    | 68.00 | 18818  | 79.95 | 2267   |
| 42.95 | 24     | 56.00 | 3423   | 69.00 | 19466  | 80.90 | 9100   |
| 44.00 | 1153   | 57.00 | 5335   | 70.00 | 1646   | 81.90 | 1902   |
| 45.05 | 1433   | 58.05 | 166    | 72.00 | 917    | 82.85 | 194    |
| 46.05 | 184    | 59.95 | 1716   | 73.00 | 8530   | 85.70 | 80     |
| 47.00 | 1428   | 61.00 | 8793   | 74.00 | 33003  | 86.00 | 63     |
| 48.00 | 844    | 62.00 | 8689   | 75.00 | 91627  | 86.90 | 6894   |

Average of 5.962 to 5.972 min.: 2u49689.d\data.ms

bfb

Modified:subtracted

| m/z    | abund. | m/z    | abund. | m/z    | abund. | m/z    | abund. |
|--------|--------|--------|--------|--------|--------|--------|--------|
| 87.95  | 6737   | 104.85 | 359    | 118.90 | 1242   | 142.90 | 2585   |
| 90.95  | 906    | 105.90 | 1036   | 123.90 | 63     | 143.90 | 63     |
| 92.00  | 5965   | 106.80 | 269    | 127.85 | 729    | 144.85 | 209    |
| 93.00  | 8009   | 109.95 | 116    | 128.85 | 398    | 145.85 | 267    |
| 94.00  | 23741  | 110.85 | 282    | 129.90 | 763    | 146.90 | 107    |
| 95.00  | 179925 | 111.80 | 74     | 130.90 | 362    | 147.85 | 493    |
| 96.00  | 11883  | 112.85 | 252    | 134.95 | 378    | 148.95 | 114    |
| 96.90  | 224    | 114.85 | 247    | 136.85 | 488    | 149.90 | 191    |
| 97.10  | 114    | 115.90 | 897    | 139.90 | 50     | 151.90 | 129    |
| 102.95 | 109    | 116.90 | 1416   | 140.90 | 2659   | 152.80 | 67     |
| 103.90 | 1163   | 117.85 | 945    | 141.90 | 265    | 153.70 | 71     |

Average of 5.962 to 5.972 min.: 2u49689.d\data.ms

bfb

Modified:subtracted

| m/z    | abund. | m/z    | abund. | m/z | abund. | m/z | abund. |
|--------|--------|--------|--------|-----|--------|-----|--------|
| 154.85 | 502    | 177.85 | 359    |     |        |     |        |
| 156.90 | 353    |        |        |     |        |     |        |
| 158.85 | 233    |        |        |     |        |     |        |
| 160.90 | 281    |        |        |     |        |     |        |
| 170.70 | 105    |        |        |     |        |     |        |
| 171.90 | 144    |        |        |     |        |     |        |
| 172.95 | 2060   |        |        |     |        |     |        |
| 173.90 | 175403 |        |        |     |        |     |        |
| 174.90 | 13634  |        |        |     |        |     |        |
| 175.90 | 171285 |        |        |     |        |     |        |
| 176.90 | 10931  |        |        |     |        |     |        |

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\vk11\  
 Data File : 1k00256.d  
 Acq On : 16 Oct 2022 6:07 pm  
 Operator : PrashanS  
 Sample : IC11-0.2  
 Misc : MS62894,V1K0011,5,,,,,1  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 17 16:00:19 2022

Quant Method : C:\msdchem\1\methods\M1K11.M

Quant Title : SW-846 Method 8260D, column Rtx-VMS 20m x 0.18 id x 1.0 um

QLast Update : Mon Oct 17 14:53:51 2022

Response via : Initial Calibration

| Compound                      | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|---------|--------|----------|
| Internal Standards            |                |      |            |         |        |          |
| 1) tert butyl alcohol-d9      | 2.248          | 65   | 297472     | 500.00  | ug/L   | 0.00     |
| 5) pentafluorobenzene         | 3.207          | 168  | 263581     | 50.00   | ug/L   | 0.00     |
| 50) 1,4-difluorobenzene       | 3.506          | 114  | 421325     | 50.00   | ug/L   | 0.00     |
| 72) chlorobenzene-d5          | 5.315          | 117  | 370884     | 50.00   | ug/L   | 0.00     |
| 95) 1,4-dichlorobenzene-d4    | 7.035          | 152  | 161268     | 50.00   | ug/L   | 0.00     |
| System Monitoring Compounds   |                |      |            |         |        |          |
| 42) dibromofluoromethane (s)  | 2.987          | 113  | 117756     | 48.06   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 127 |      | Recovery = | 96.12%  |        |          |
| 51) 1,2-dichloroethane-d4 (s) | 3.265          | 65   | 177703     | 51.22   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 130 |      | Recovery = | 102.44% |        |          |
| 73) toluene-d8 (s)            | 4.303          | 98   | 534199     | 49.72   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 80 - 120 |      | Recovery = | 99.44%  |        |          |
| 96) 4-bromofluorobenzene (s)  | 6.185          | 95   | 184169     | 51.22   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 79 - 127 |      | Recovery = | 102.44% |        |          |
| Target Compounds              |                |      |            |         |        |          |
|                               |                |      |            |         | Qvalue |          |
| 6) chlorodifluoromethane      | 1.231          | 51   | 954        | 0.18    | ug/L   | 74       |
| 17) 1,1-dichloroethene        | 1.891          | 61   | 968        | 0.21    | ug/L # | 59       |
| 22) methylene chloride        | 2.164          | 84   | 487        | 0.20    | ug/L # | 66       |
| 24) methyl tert butyl ether   | 2.258          | 73   | 1323       | 0.16    | ug/L # | 1        |
| 27) di-isopropyl ether        | 2.431          | 45   | 2793       | 0.19    | ug/L   | 85       |
| 28) ethyl tert-butyl ether    | 2.604          | 59   | 1934       | 0.17    | ug/L   | 78       |
| 30) 1,1-dichloroethane        | 2.520          | 63   | 1075       | 0.19    | ug/L   | 82       |
| 31) chloroprene               | 2.505          | 53   | 1302       | 0.21    | ug/L   | 86       |
| 35) 2,2-dichloropropane       | 2.830          | 77   | 639        | 0.18    | ug/L # | 48       |
| 36) cis-1,2-dichloroethene    | 2.767          | 96   | 505        | 0.21    | ug/L # | 57       |
| 41) chloroform                | 2.893          | 47   | 352        | 0.20    | ug/L # | 36       |
| 44) 1,1,1-trichloroethane     | 3.013          | 97   | 523        | 0.15    | ug/L   | 95       |
| 46) 1,1-dichloropropene       | 3.071          | 75   | 660        | 0.18    | ug/L # | 49       |
| 52) iso-octane                | 3.118          | 57   | 3140       | 0.21    | ug/L   | 88       |
| 53) benzene                   | 3.202          | 78   | 2511       | 0.24    | ug/L   | 89       |
| 54) tert-amyl methyl ether    | 3.233          | 73   | 1835       | 0.22    | ug/L   | 90       |
| 55) heptane                   | 3.160          | 57   | 471        | 0.19    | ug/L   | 86       |
| 60) trichloroethene           | 3.501          | 130  | 528        | 0.25    | ug/L # | 85       |
| 62) 2-chloroethyl vinyl ether | 4.135          | 63   | 2006       | 0.82    | ug/L   | 82       |
| 64) 1,2-dichloropropane       | 3.789          | 63   | 554        | 0.17    | ug/L # | 48       |
| 67) bromodichloromethane      | 3.815          | 83   | 506        | 0.16    | ug/L   | 86       |
| 69) cis-1,3-dichloropropene   | 4.188          | 75   | 957        | 0.23    | ug/L # | 68       |
| 70) 4-methyl-2-pentanone      | 4.555          | 58   | 1616       | 0.65    | ug/L   | 96       |
| 74) toluene                   | 4.340          | 92   | 1319       | 0.22    | ug/L   | 96       |
| 76) trans-1,3-dichloropropene | 4.581          | 75   | 709        | 0.18    | ug/L # | 79       |
| 78) tetrachloroethene         | 4.581          | 166  | 399        | 0.21    | ug/L # | 68       |
| 79) 2-hexanone                | 5.105          | 58   | 1647       | 0.58    | ug/L   | 90       |
| 80) 1,3-dichloropropane       | 4.880          | 76   | 770        | 0.18    | ug/L # | 50       |
| 83) 1,2-dibromoethane         | 4.979          | 107  | 443        | 0.21    | ug/L   | 91       |
| 84) n-butyl ether             | 5.241          | 57   | 2852       | 0.17    | ug/L   | 90       |
| 85) chlorobenzene             | 5.325          | 112  | 1304       | 0.23    | ug/L # | 18       |
| 86) 1,1,1,2-tetrachloroethane | 5.373          | 131  | 271        | 0.14    | ug/L # | 30       |

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\vk11\  
 Data File : 1k00256.d  
 Acq On : 16 Oct 2022 6:07 pm  
 Operator : PrashanS  
 Sample : IC11-0.2  
 Misc : MS62894,V1K0011,5,,,,1  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 17 16:00:19 2022  
 Quant Method : C:\msdchem\1\methods\M1K11.M  
 Quant Title : SW-846 Method 8260D, column Rtx-VMS 20m x 0.18 id x 1.0 um  
 QLast Update : Mon Oct 17 14:53:51 2022  
 Response via : Initial Calibration

| Compound                      | R.T.  | QIon | Response | Conc | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|------|--------|----------|
| 88) m,p-xylene                | 5.441 | 106  | 1724     | 0.43 | ug/L   | 93       |
| 89) o-xylene                  | 5.750 | 106  | 784      | 0.19 | ug/L # | 65       |
| 90) styrene                   | 5.782 | 104  | 1171     | 0.17 | ug/L   | 80       |
| 93) isopropylbenzene          | 5.976 | 105  | 2003     | 0.18 | ug/L   | 74       |
| 97) bromobenzene              | 6.264 | 156  | 303      | 0.15 | ug/L # | 46       |
| 98) 1,1,2,2-tetrachloroethane | 6.337 | 83   | 619      | 0.19 | ug/L   | 82       |
| 101) n-propylbenzene          | 6.285 | 91   | 2622     | 0.20 | ug/L   | 91       |
| 102) 2-chlorotoluene          | 6.411 | 126  | 317      | 0.15 | ug/L # | 48       |
| 103) 4-chlorotoluene          | 6.531 | 91   | 1691     | 0.22 | ug/L   | 79       |
| 104) 1,3,5-trimethylbenzene   | 6.432 | 105  | 1745     | 0.21 | ug/L   | 80       |
| 105) tert-butylbenzene        | 6.683 | 119  | 1372     | 0.20 | ug/L   | 96       |
| 106) 1,2,4-trimethylbenzene   | 6.741 | 105  | 1572     | 0.18 | ug/L   | 81       |
| 107) sec-butylbenzene         | 6.820 | 105  | 1907     | 0.17 | ug/L   | 96       |
| 108) 1,3-dichlorobenzene      | 6.982 | 146  | 885      | 0.22 | ug/L   | 89       |
| 109) p-isopropyltoluene       | 6.925 | 119  | 1566     | 0.18 | ug/L   | 89       |
| 111) 1,2-dichlorobenzene      | 7.354 | 146  | 817      | 0.21 | ug/L   | 86       |
| 112) 1,2,3-trimethylbenzene   | 7.066 | 105  | 1869     | 0.21 | ug/L   | 93       |
| 115) 1,3,5-trichlorobenzene   | 7.931 | 180  | 606      | 0.21 | ug/L # | 61       |
| 116) 1,2,4-trichlorobenzene   | 8.366 | 180  | 462      | 0.18 | ug/L # | 56       |
| 118) naphthalene              | 8.576 | 128  | 1990     | 0.20 | ug/L   | 69       |
| 119) 1,2,3-trichlorobenzene   | 8.702 | 180  | 370      | 0.15 | ug/L   | 70       |

(#) = qualifier out of range (m) = manual integration (+) = signals summed



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\vk11\  
 Data File : 1k00258.d  
 Acq On : 16 Oct 2022 6:40 pm  
 Operator : PrashanS  
 Sample : IC11-0.5  
 Misc : MS62894,V1K0011,5,,,1  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 17 16:01:33 2022

Quant Method : C:\msdchem\1\methods\M1K11.M

Quant Title : SW-846 Method 8260D, column Rtx-VMS 20m x 0.18 id x 1.0 um

QLast Update : Mon Oct 17 14:53:51 2022

Response via : Initial Calibration

| Compound                      | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|---------|--------|----------|
| Internal Standards            |                |      |            |         |        |          |
| 1) tert butyl alcohol-d9      | 2.248          | 65   | 334697     | 500.00  | ug/L   | 0.00     |
| 5) pentafluorobenzene         | 3.207          | 168  | 255582     | 50.00   | ug/L   | 0.00     |
| 50) 1,4-difluorobenzene       | 3.506          | 114  | 408041     | 50.00   | ug/L   | 0.00     |
| 72) chlorobenzene-d5          | 5.315          | 117  | 364985     | 50.00   | ug/L   | 0.00     |
| 95) 1,4-dichlorobenzene-d4    | 7.035          | 152  | 165644     | 50.00   | ug/L   | 0.00     |
| System Monitoring Compounds   |                |      |            |         |        |          |
| 42) dibromofluoromethane (s)  | 2.987          | 113  | 116190     | 48.90   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 127 |      | Recovery = | 97.80%  |        |          |
| 51) 1,2-dichloroethane-d4 (s) | 3.270          | 65   | 176299     | 52.47   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 130 |      | Recovery = | 104.94% |        |          |
| 73) toluene-d8 (s)            | 4.303          | 98   | 524013     | 49.56   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 80 - 120 |      | Recovery = | 99.12%  |        |          |
| 96) 4-bromofluorobenzene (s)  | 6.190          | 95   | 185542     | 50.24   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 79 - 127 |      | Recovery = | 100.48% |        |          |
| Target Compounds              |                |      |            |         |        |          |
|                               |                |      |            |         | Qvalue |          |
| 6) chlorodifluoromethane      | 1.236          | 51   | 2499       | 0.49    | ug/L   | 91       |
| 8) chloromethane              | 1.320          | 50   | 2289       | 0.45    | ug/L   | 91       |
| 10) 1,3-butadiene             | 1.362          | 39   | 1550       | 0.48    | ug/L   | 87       |
| 14) ethyl ether               | 1.781          | 74   | 628        | 0.40    | ug/L   | 90       |
| 16) freon 113                 | 1.896          | 151  | 539        | 0.36    | ug/L # | 79       |
| 17) 1,1-dichloroethene        | 1.891          | 61   | 2071       | 0.47    | ug/L   | 91       |
| 18) acetone                   | 2.164          | 58   | 1842       | 2.11    | ug/L   | 95       |
| 21) carbon disulfide          | 1.928          | 76   | 3321       | 0.52    | ug/L   | 87       |
| 22) methylene chloride        | 2.158          | 84   | 1022       | 0.44    | ug/L   | 82       |
| 24) methyl tert butyl ether   | 2.263          | 73   | 3600       | 0.45    | ug/L # | 39       |
| 26) hexane                    | 2.253          | 57   | 4820       | 0.54    | ug/L   | 92       |
| 27) di-isopropyl ether        | 2.431          | 45   | 6581       | 0.46    | ug/L   | 86       |
| 28) ethyl tert-butyl ether    | 2.604          | 59   | 4861       | 0.43    | ug/L   | 91       |
| 29) 2-butanone                | 3.039          | 72   | 1283       | 1.73    | ug/L # | 74       |
| 30) 1,1-dichloroethane        | 2.520          | 63   | 2624       | 0.47    | ug/L   | 93       |
| 31) chloroprene               | 2.505          | 53   | 2501       | 0.42    | ug/L   | 93       |
| 32) acrylonitrile             | 2.536          | 52   | 901        | 0.41    | ug/L   | 96       |
| 35) 2,2-dichloropropane       | 2.830          | 77   | 1448       | 0.42    | ug/L   | 74       |
| 36) cis-1,2-dichloroethene    | 2.772          | 96   | 1056       | 0.46    | ug/L   | 89       |
| 39) bromochloromethane        | 2.872          | 128  | 395        | 0.44    | ug/L # | 88       |
| 41) chloroform                | 2.893          | 47   | 794        | 0.46    | ug/L   | 70       |
| 44) 1,1,1-trichloroethane     | 3.013          | 97   | 1501       | 0.43    | ug/L   | 86       |
| 46) 1,1-dichloropropene       | 3.076          | 75   | 1453       | 0.41    | ug/L   | 87       |
| 47) carbon tetrachloride      | 2.976          | 117  | 1575       | 0.52    | ug/L # | 68       |
| 49) tert-amyl alcohol         | 3.317          | 55   | 784        | 2.00    | ug/L # | 52       |
| 52) iso-octane                | 3.123          | 57   | 7216       | 0.49    | ug/L # | 78       |
| 53) benzene                   | 3.207          | 78   | 5046       | 0.51    | ug/L   | 96       |
| 54) tert-amyl methyl ether    | 3.233          | 73   | 4290       | 0.54    | ug/L   | 86       |
| 55) heptane                   | 3.160          | 57   | 866        | 0.37    | ug/L   | 85       |
| 58) n-butyl alcohol           | 3.627          | 56   | 5444       | 20.32   | ug/L   | 85       |
| 60) trichloroethene           | 3.506          | 130  | 887        | 0.43    | ug/L   | 76       |
| 61) 2-nitropropane            | 4.465          | 41   | 749        | 0.44    | ug/L # | 78       |

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\vk11\  
 Data File : 1k00258.d  
 Acq On : 16 Oct 2022 6:40 pm  
 Operator : PrashanS  
 Sample : IC11-0.5  
 Misc : MS62894,V1K0011,5,,,1  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 17 16:01:33 2022

Quant Method : C:\msdchem\1\methods\M1K11.M

Quant Title : SW-846 Method 8260D, column Rtx-VMS 20m x 0.18 id x 1.0 um

QLast Update : Mon Oct 17 14:53:51 2022

Response via : Initial Calibration

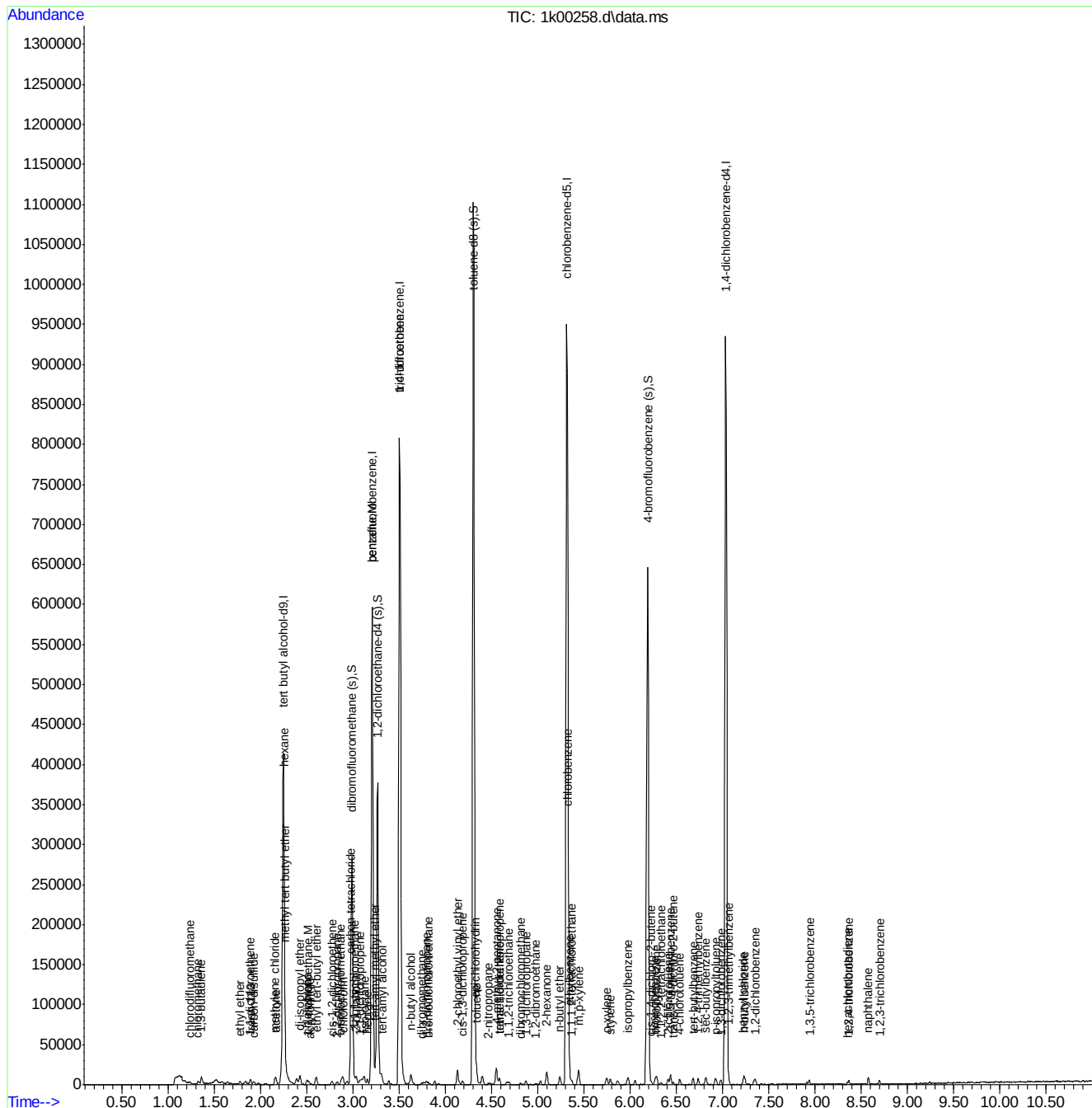
| Compound                      | R.T.  | QIon | Response | Conc | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|------|--------|----------|
| 62) 2-chloroethyl vinyl ether | 4.135 | 63   | 5328     | 2.25 | ug/L   | 96       |
| 64) 1,2-dichloropropane       | 3.794 | 63   | 1552     | 0.50 | ug/L   | 93       |
| 66) dibromomethane            | 3.742 | 93   | 717      | 0.54 | ug/L   | 80       |
| 67) bromodichloromethane      | 3.821 | 83   | 1489     | 0.50 | ug/L   | 90       |
| 68) epichlorohydrin           | 4.329 | 57   | 1339     | 1.88 | ug/L # | 1        |
| 69) cis-1,3-dichloropropene   | 4.188 | 75   | 1959     | 0.48 | ug/L   | 91       |
| 70) 4-methyl-2-pentanone      | 4.555 | 58   | 4287     | 1.77 | ug/L   | 89       |
| 74) toluene                   | 4.340 | 92   | 3001     | 0.51 | ug/L   | 92       |
| 76) trans-1,3-dichloropropene | 4.586 | 75   | 1642     | 0.43 | ug/L   | 78       |
| 77) 1,1,2-trichloroethane     | 4.691 | 83   | 868      | 0.50 | ug/L   | 96       |
| 78) tetrachloroethene         | 4.586 | 166  | 831      | 0.43 | ug/L   | 83       |
| 79) 2-hexanone                | 5.100 | 58   | 4544     | 1.64 | ug/L   | 88       |
| 80) 1,3-dichloropropane       | 4.874 | 76   | 1872     | 0.45 | ug/L   | 88       |
| 82) dibromochloromethane      | 4.817 | 129  | 978      | 0.48 | ug/L   | 62       |
| 83) 1,2-dibromoethane         | 4.979 | 107  | 969      | 0.47 | ug/L # | 69       |
| 84) n-butyl ether             | 5.236 | 57   | 7463     | 0.44 | ug/L   | 96       |
| 85) chlorobenzene             | 5.331 | 112  | 2859     | 0.51 | ug/L   | 74       |
| 86) 1,1,1,2-tetrachloroethane | 5.367 | 131  | 675      | 0.36 | ug/L # | 66       |
| 87) ethylbenzene              | 5.341 | 91   | 5942     | 0.53 | ug/L   | 93       |
| 88) m,p-xylene                | 5.441 | 106  | 3895     | 0.98 | ug/L   | 86       |
| 89) o-xylene                  | 5.750 | 106  | 1670     | 0.42 | ug/L   | 87       |
| 90) styrene                   | 5.787 | 104  | 2955     | 0.44 | ug/L   | 85       |
| 93) isopropylbenzene          | 5.975 | 105  | 4785     | 0.45 | ug/L   | 90       |
| 94) cis-1,4-dichloro-2-butene | 6.222 | 88   | 599      | 0.37 | ug/L # | 64       |
| 97) bromobenzene              | 6.269 | 156  | 1118     | 0.55 | ug/L   | 87       |
| 98) 1,1,2,2-tetrachloroethane | 6.337 | 83   | 1529     | 0.47 | ug/L   | 92       |
| 99) trans-1,4-dichloro-2-b... | 6.468 | 53   | 949      | 0.50 | ug/L # | 63       |
| 101) n-propylbenzene          | 6.290 | 91   | 6241     | 0.47 | ug/L   | 96       |
| 102) 2-chlorotoluene          | 6.411 | 126  | 1220     | 0.58 | ug/L # | 38       |
| 103) 4-chlorotoluene          | 6.531 | 91   | 3740     | 0.48 | ug/L   | 91       |
| 104) 1,3,5-trimethylbenzene   | 6.437 | 105  | 4018     | 0.46 | ug/L   | 93       |
| 105) tert-butylbenzene        | 6.683 | 119  | 3362     | 0.48 | ug/L   | 90       |
| 106) 1,2,4-trimethylbenzene   | 6.736 | 105  | 4077     | 0.45 | ug/L   | 90       |
| 107) sec-butylbenzene         | 6.820 | 105  | 4987     | 0.44 | ug/L   | 94       |
| 108) 1,3-dichlorobenzene      | 6.982 | 146  | 2038     | 0.48 | ug/L   | 83       |
| 109) p-isopropyltoluene       | 6.930 | 119  | 3912     | 0.45 | ug/L   | 94       |
| 111) 1,2-dichlorobenzene      | 7.354 | 146  | 2157     | 0.53 | ug/L   | 94       |
| 112) 1,2,3-trimethylbenzene   | 7.061 | 105  | 4735     | 0.52 | ug/L   | 95       |
| 113) n-butylbenzene           | 7.239 | 92   | 2346     | 0.42 | ug/L # | 78       |
| 115) 1,3,5-trichlorobenzene   | 7.942 | 180  | 1562     | 0.52 | ug/L   | 100      |
| 116) 1,2,4-trichlorobenzene   | 8.366 | 180  | 1399     | 0.54 | ug/L   | 88       |
| 117) hexachlorobutadiene      | 8.351 | 225  | 490      | 0.43 | ug/L # | 69       |
| 118) naphthalene              | 8.576 | 128  | 4764     | 0.46 | ug/L   | 99       |
| 119) 1,2,3-trichlorobenzene   | 8.702 | 180  | 1251     | 0.49 | ug/L   | 98       |
| 121) benzyl chloride          | 7.228 | 126  | 453      | 0.39 | ug/L # | 39       |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\vk11\  
Data File : 1k00258.d  
Acq On : 16 Oct 2022 6:40 pm  
Operator : Prashans  
Sample : IC11-0.5  
Misc : MS62894,V1K0011,5,,,,,1  
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 17 16:01:33 2022  
Quant Method : C:\msdchem\1\methods\M1K11.M  
Quant Title : SW-846 Method 8260D, column Rtx-VMS 20m x 0.18 id x 1.0 um  
QLast Update : Mon Oct 17 14:53:51 2022  
Response via : Initial Calibration



M1K11.M Thu Oct 20 12:16:50 2022 RPT1

Page: 3

## 7.6.2



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\vk11\  
 Data File : 1k00260.d  
 Acq On : 16 Oct 2022 7:12 pm  
 Operator : PrashanS  
 Sample : IC11-1  
 Misc : MS62894,V1K0011,5,,,1  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 17 16:02:27 2022

Quant Method : C:\msdchem\1\methods\M1K11.M

Quant Title : SW-846 Method 8260D, column Rtx-VMS 20m x 0.18 id x 1.0 um

QLast Update : Mon Oct 17 14:53:51 2022

Response via : Initial Calibration

| Compound                      | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|---------|--------|----------|
| Internal Standards            |                |      |            |         |        |          |
| 1) tert butyl alcohol-d9      | 2.248          | 65   | 297110     | 500.00  | ug/L   | 0.00     |
| 5) pentafluorobenzene         | 3.207          | 168  | 235714     | 50.00   | ug/L   | 0.00     |
| 50) 1,4-difluorobenzene       | 3.511          | 114  | 379792     | 50.00   | ug/L   | 0.00     |
| 72) chlorobenzene-d5          | 5.315          | 117  | 331490     | 50.00   | ug/L   | 0.00     |
| 95) 1,4-dichlorobenzene-d4    | 7.035          | 152  | 149516     | 50.00   | ug/L   | 0.00     |
| System Monitoring Compounds   |                |      |            |         |        |          |
| 42) dibromofluoromethane (s)  | 2.992          | 113  | 109732     | 50.08   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 127 |      | Recovery = | 100.16% |        |          |
| 51) 1,2-dichloroethane-d4 (s) | 3.270          | 65   | 163939     | 52.42   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 130 |      | Recovery = | 104.84% |        |          |
| 73) toluene-d8 (s)            | 4.308          | 98   | 481336     | 50.13   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 80 - 120 |      | Recovery = | 100.26% |        |          |
| 96) 4-bromofluorobenzene (s)  | 6.190          | 95   | 172978     | 51.89   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 79 - 127 |      | Recovery = | 103.78% |        |          |
| Target Compounds              |                |      |            |         |        |          |
| 2) ethanol                    | 1.839          | 45   | 8875       | 118.29  | ug/L   | 95       |
| 3) tertiary butyl alcohol     | 2.279          | 59   | 4022       | 4.92    | ug/L # | 69       |
| 4) 1,4-dioxane                | 3.925          | 88   | 834        | 19.65   | ug/L # | 77       |
| 6) chlorodifluoromethane      | 1.241          | 51   | 4640       | 0.98    | ug/L   | 96       |
| 7) dichlorodifluoromethane    | 1.215          | 85   | 2981       | 0.91    | ug/L   | 95       |
| 8) chloromethane              | 1.330          | 50   | 5448       | 1.16    | ug/L   | 95       |
| 9) vinyl chloride             | 1.362          | 62   | 4015       | 1.00    | ug/L   | 97       |
| 10) 1,3-butadiene             | 1.367          | 39   | 2973       | 1.00    | ug/L   | 98       |
| 11) bromomethane              | 1.524          | 96   | 1125       | 1.10    | ug/L # | 89       |
| 12) chloroethane              | 1.587          | 64   | 2930       | 1.45    | ug/L   | 85       |
| 13) trichlorofluoromethane    | 1.650          | 101  | 2808       | 0.89    | ug/L   | 98       |
| 14) ethyl ether               | 1.786          | 74   | 1240       | 0.86    | ug/L   | 87       |
| 16) freon 113                 | 1.902          | 151  | 1276       | 0.93    | ug/L   | 92       |
| 17) 1,1-dichloroethene        | 1.891          | 61   | 3622       | 0.90    | ug/L   | 97       |
| 18) acetone                   | 2.169          | 58   | 3291       | 4.09    | ug/L # | 81       |
| 20) iodomethane               | 1.980          | 142  | 1498       | 0.93    | ug/L   | 87       |
| 21) carbon disulfide          | 1.928          | 76   | 5681       | 0.97    | ug/L   | 93       |
| 22) methylene chloride        | 2.159          | 84   | 1944       | 0.90    | ug/L # | 83       |
| 23) methyl acetate            | 2.216          | 74   | 941        | 0.99    | ug/L # | 52       |
| 24) methyl tert butyl ether   | 2.269          | 73   | 6881       | 0.94    | ug/L   | 85       |
| 25) trans-1,2-dichloroethene  | 2.232          | 61   | 5683       | 1.41    | ug/L   | 97       |
| 26) hexane                    | 2.258          | 57   | 7601       | 0.93    | ug/L   | 91       |
| 27) di-isopropyl ether        | 2.431          | 45   | 11791      | 0.90    | ug/L   | 94       |
| 28) ethyl tert-butyl ether    | 2.604          | 59   | 9139       | 0.89    | ug/L   | 95       |
| 29) 2-butanone                | 3.039          | 72   | 2280       | 3.33    | ug/L # | 80       |
| 30) 1,1-dichloroethane        | 2.520          | 63   | 4712       | 0.92    | ug/L   | 88       |
| 31) chloroprene               | 2.505          | 53   | 5232       | 0.95    | ug/L   | 94       |
| 32) acrylonitrile             | 2.541          | 52   | 2052       | 1.01    | ug/L   | 93       |
| 35) 2,2-dichloropropane       | 2.835          | 77   | 3055       | 0.95    | ug/L   | 83       |
| 36) cis-1,2-dichloroethene    | 2.777          | 96   | 1972       | 0.92    | ug/L   | 91       |
| 38) methyl acrylate           | 2.945          | 85   | 621        | 0.87    | ug/L # | 87       |
| 39) bromochloromethane        | 2.877          | 128  | 733        | 0.89    | ug/L   | 95       |



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\vk11\  
 Data File : 1k00260.d  
 Acq On : 16 Oct 2022 7:12 pm  
 Operator : PrashanS  
 Sample : IC11-1  
 Misc : MS62894,V1K0011,5,,,1  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 17 16:02:27 2022

Quant Method : C:\msdchem\1\methods\M1K11.M

Quant Title : SW-846 Method 8260D, column Rtx-VMS 20m x 0.18 id x 1.0 um

QLast Update : Mon Oct 17 14:53:51 2022

Response via : Initial Calibration

| Compound                      | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|-------|--------|----------|
| 40) tetrahydrofuran           | 2.982 | 71   | 626      | 1.07  | ug/L # | 44       |
| 41) chloroform                | 2.898 | 47   | 1800     | 1.14  | ug/L   | 90       |
| 44) 1,1,1-trichloroethane     | 3.018 | 97   | 3141     | 0.98  | ug/L   | 90       |
| 45) cyclohexane               | 2.887 | 84   | 3844     | 0.98  | ug/L # | 84       |
| 46) 1,1-dichloropropene       | 3.076 | 75   | 2593     | 0.78  | ug/L   | 86       |
| 47) carbon tetrachloride      | 2.987 | 117  | 2847     | 1.02  | ug/L # | 74       |
| 49) tert-amyl alcohol         | 3.312 | 55   | 1681     | 4.65  | ug/L # | 43       |
| 52) iso-octane                | 3.123 | 57   | 13862    | 1.01  | ug/L   | 85       |
| 53) benzene                   | 3.207 | 78   | 9386     | 1.01  | ug/L   | 92       |
| 54) tert-amyl methyl ether    | 3.239 | 73   | 7208     | 0.98  | ug/L   | 93       |
| 55) heptane                   | 3.160 | 57   | 1955     | 0.89  | ug/L # | 74       |
| 57) 1,2-dichloroethane        | 3.302 | 62   | 3847     | 1.12  | ug/L   | 91       |
| 58) n-butyl alcohol           | 3.627 | 56   | 10275    | 41.21 | ug/L   | 93       |
| 60) trichloroethene           | 3.506 | 130  | 1815     | 0.95  | ug/L   | 87       |
| 61) 2-nitropropane            | 4.471 | 41   | 1460     | 0.92  | ug/L # | 73       |
| 62) 2-chloroethyl vinyl ether | 4.135 | 63   | 9555     | 4.34  | ug/L   | 97       |
| 64) 1,2-dichloropropane       | 3.794 | 63   | 2860     | 0.98  | ug/L   | 98       |
| 65) methylcyclohexane         | 3.511 | 55   | 6457     | 1.35  | ug/L   | 84       |
| 66) dibromomethane            | 3.747 | 93   | 1373     | 1.10  | ug/L # | 73       |
| 67) bromodichloromethane      | 3.815 | 83   | 2394     | 0.86  | ug/L   | 96       |
| 68) epichlorohydrin           | 4.329 | 57   | 3621     | 5.46  | ug/L # | 7        |
| 69) cis-1,3-dichloropropene   | 4.188 | 75   | 3656     | 0.96  | ug/L   | 92       |
| 70) 4-methyl-2-pentanone      | 4.555 | 58   | 8093     | 3.59  | ug/L   | 92       |
| 71) 3-methyl-1-butanol        | 4.397 | 70   | 2827     | 15.88 | ug/L # | 84       |
| 74) toluene                   | 4.340 | 92   | 5272     | 0.98  | ug/L # | 82       |
| 76) trans-1,3-dichloropropene | 4.586 | 75   | 3269     | 0.95  | ug/L   | 97       |
| 77) 1,1,2-trichloroethane     | 4.691 | 83   | 1511     | 0.96  | ug/L # | 82       |
| 78) tetrachloroethene         | 4.586 | 166  | 1668     | 0.96  | ug/L # | 61       |
| 79) 2-hexanone                | 5.100 | 58   | 8795     | 3.49  | ug/L   | 99       |
| 80) 1,3-dichloropropane       | 4.869 | 76   | 3740     | 0.99  | ug/L   | 86       |
| 82) dibromochloromethane      | 4.812 | 129  | 1689     | 0.92  | ug/L   | 96       |
| 83) 1,2-dibromoethane         | 4.979 | 107  | 1596     | 0.85  | ug/L   | 78       |
| 84) n-butyl ether             | 5.236 | 57   | 13748    | 0.89  | ug/L   | 96       |
| 85) chlorobenzene             | 5.331 | 112  | 4615     | 0.91  | ug/L   | 85       |
| 86) 1,1,1,2-tetrachloroethane | 5.373 | 131  | 1584     | 0.94  | ug/L   | 81       |
| 87) ethylbenzene              | 5.341 | 91   | 10336    | 1.01  | ug/L   | 91       |
| 88) m,p-xylene                | 5.441 | 106  | 7296     | 2.02  | ug/L   | 92       |
| 89) o-xylene                  | 5.750 | 106  | 3456     | 0.96  | ug/L   | 94       |
| 90) styrene                   | 5.787 | 104  | 5726     | 0.94  | ug/L   | 91       |
| 91) bromoform                 | 5.802 | 173  | 1125     | 0.81  | ug/L   | 90       |
| 93) isopropylbenzene          | 5.981 | 105  | 8978     | 0.92  | ug/L   | 95       |
| 94) cis-1,4-dichloro-2-butene | 6.232 | 88   | 1193     | 0.82  | ug/L   | 95       |
| 97) bromobenzene              | 6.274 | 156  | 1773     | 0.96  | ug/L   | 82       |
| 98) 1,1,2,2-tetrachloroethane | 6.332 | 83   | 2954     | 1.00  | ug/L   | 90       |
| 99) trans-1,4-dichloro-2-b... | 6.468 | 53   | 1716     | 1.00  | ug/L # | 75       |
| 100) 1,2,3-trichloropropane   | 6.442 | 110  | 684      | 0.74  | ug/L   | 81       |
| 101) n-propylbenzene          | 6.285 | 91   | 11213    | 0.94  | ug/L   | 97       |
| 102) 2-chlorotoluene          | 6.411 | 126  | 1852     | 0.97  | ug/L # | 72       |
| 103) 4-chlorotoluene          | 6.537 | 91   | 7166     | 1.01  | ug/L   | 95       |
| 104) 1,3,5-trimethylbenzene   | 6.432 | 105  | 7374     | 0.94  | ug/L   | 94       |

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\vk11\  
 Data File : 1k00260.d  
 Acq On : 16 Oct 2022 7:12 pm  
 Operator : PrashanS  
 Sample : IC11-1  
 Misc : MS62894,V1K0011,5,,,,1  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 17 16:02:27 2022  
 Quant Method : C:\msdchem\1\methods\M1K11.M  
 Quant Title : SW-846 Method 8260D, column Rtx-VMS 20m x 0.18 id x 1.0 um  
 QLast Update : Mon Oct 17 14:53:51 2022  
 Response via : Initial Calibration

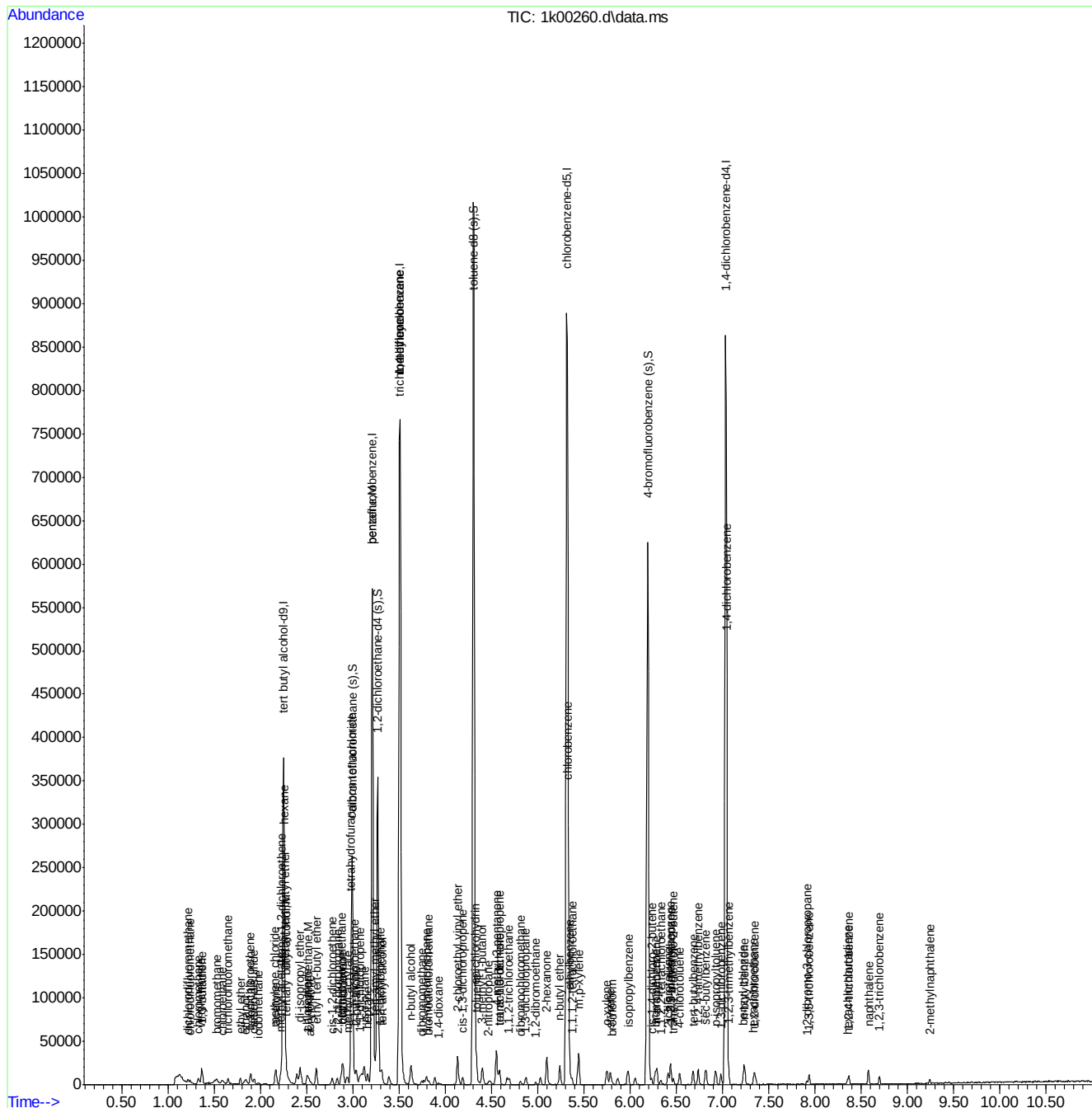
| Compound                       | R.T.  | QIon | Response | Conc | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|------|--------|----------|
| 105) tert-butylbenzene         | 6.683 | 119  | 5902     | 0.93 | ug/L   | 92       |
| 106) 1,2,4-trimethylbenzene    | 6.736 | 105  | 7590     | 0.94 | ug/L   | 87       |
| 107) sec-butylbenzene          | 6.820 | 105  | 9577     | 0.93 | ug/L   | 97       |
| 108) 1,3-dichlorobenzene       | 6.982 | 146  | 3574     | 0.94 | ug/L   | 94       |
| 109) p-isopropyltoluene        | 6.925 | 119  | 7177     | 0.90 | ug/L   | 91       |
| 110) 1,4-dichlorobenzene       | 7.045 | 146  | 3721     | 0.99 | ug/L # | 69       |
| 111) 1,2-dichlorobenzene       | 7.349 | 146  | 3619     | 0.99 | ug/L   | 92       |
| 112) 1,2,3-trimethylbenzene    | 7.066 | 105  | 7793     | 0.95 | ug/L   | 93       |
| 113) n-butylbenzene            | 7.234 | 92   | 4554     | 0.89 | ug/L   | 90       |
| 114) 1,2-dibromo-3-chloropr... | 7.910 | 157  | 724      | 0.81 | ug/L   | 92       |
| 115) 1,3,5-trichlorobenzene    | 7.936 | 180  | 2742     | 1.02 | ug/L   | 94       |
| 116) 1,2,4-trichlorobenzene    | 8.366 | 180  | 2074     | 0.88 | ug/L   | 88       |
| 117) hexachlorobutadiene       | 8.351 | 225  | 873      | 0.85 | ug/L   | 91       |
| 118) naphthalene               | 8.581 | 128  | 8516     | 0.90 | ug/L   | 98       |
| 119) 1,2,3-trichlorobenzene    | 8.697 | 180  | 2316     | 1.00 | ug/L   | 84       |
| 120) hexachloroethane          | 7.333 | 119  | 1186     | 0.88 | ug/L   | 86       |
| 121) benzyl chloride           | 7.229 | 126  | 803      | 0.77 | ug/L   | 94       |
| 122) 2-methylnaphthalene       | 9.242 | 142  | 1829     | 0.39 | ug/L   | 91       |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\vk11\  
Data File : 1k00260.d  
Acq On : 16 Oct 2022 7:12 pm  
Operator : Prashans  
Sample : IC11-1  
Misc : MS62894,V1K0011,5,,,,,1  
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 17 16:02:27 2022  
Quant Method : C:\msdchem\1\methods\M1K11.M  
Quant Title : SW-846 Method 8260D, column Rtx-VMS 20m x 0.18 id x 1.0 um  
QLast Update : Mon Oct 17 14:53:51 2022  
Response via : Initial Calibration



M1K11.M Thu Oct 20 12:16:52 2022 RPT1

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## 7.6.3

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\vk11\  
 Data File : 1k00262.d  
 Acq On : 16 Oct 2022 7:45 pm  
 Operator : PrashanS  
 Sample : IC11-2  
 Misc : MS62894,V1K0011,5,,,1  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 17 16:03:12 2022

Quant Method : C:\msdchem\1\methods\M1K11.M

Quant Title : SW-846 Method 8260D, column Rtx-VMS 20m x 0.18 id x 1.0 um

QLast Update : Mon Oct 17 14:53:51 2022

Response via : Initial Calibration

| Compound                      | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|---------|--------|----------|
| Internal Standards            |                |      |            |         |        |          |
| 1) tert butyl alcohol-d9      | 2.248          | 65   | 304669     | 500.00  | ug/L   | 0.00     |
| 5) pentafluorobenzene         | 3.207          | 168  | 246500     | 50.00   | ug/L   | 0.00     |
| 50) 1,4-difluorobenzene       | 3.506          | 114  | 398099     | 50.00   | ug/L   | 0.00     |
| 72) chlorobenzene-d5          | 5.315          | 117  | 345539     | 50.00   | ug/L   | 0.00     |
| 95) 1,4-dichlorobenzene-d4    | 7.035          | 152  | 157710     | 50.00   | ug/L   | 0.00     |
| System Monitoring Compounds   |                |      |            |         |        |          |
| 42) dibromofluoromethane (s)  | 2.987          | 113  | 111226     | 48.54   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 127 |      | Recovery = | 97.08%  |        |          |
| 51) 1,2-dichloroethane-d4 (s) | 3.270          | 65   | 161663     | 49.32   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 130 |      | Recovery = | 98.64%  |        |          |
| 73) toluene-d8 (s)            | 4.303          | 98   | 506755     | 50.63   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 80 - 120 |      | Recovery = | 101.26% |        |          |
| 96) 4-bromofluorobenzene (s)  | 6.191          | 95   | 178144     | 50.66   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 79 - 127 |      | Recovery = | 101.32% |        |          |
| Target Compounds              |                |      |            |         |        |          |
| 2) ethanol                    | 1.834          | 45   | 20038      | 260.46  | ug/L   | 96       |
| 3) tertiary butyl alcohol     | 2.279          | 59   | 8662       | 10.32   | ug/L # | 97       |
| 4) 1,4-dioxane                | 3.931          | 88   | 1996       | 45.86   | ug/L # | 73       |
| 6) chlorodifluoromethane      | 1.236          | 51   | 9000       | 1.82    | ug/L   | 92       |
| 7) dichlorodifluoromethane    | 1.215          | 85   | 6332       | 1.85    | ug/L   | 99       |
| 8) chloromethane              | 1.325          | 50   | 9311       | 1.89    | ug/L   | 96       |
| 9) vinyl chloride             | 1.362          | 62   | 7578       | 1.81    | ug/L   | 97       |
| 10) 1,3-butadiene             | 1.367          | 39   | 5745       | 1.86    | ug/L   | 92       |
| 11) bromomethane              | 1.524          | 96   | 1784       | 1.66    | ug/L # | 94       |
| 12) chloroethane              | 1.587          | 64   | 5167       | 2.44    | ug/L   | 93       |
| 13) trichlorofluoromethane    | 1.650          | 101  | 5846       | 1.76    | ug/L   | 94       |
| 14) ethyl ether               | 1.781          | 74   | 2701       | 1.79    | ug/L   | 89       |
| 16) freon 113                 | 1.896          | 151  | 2801       | 1.96    | ug/L   | 87       |
| 17) 1,1-dichloroethene        | 1.891          | 61   | 7887       | 1.87    | ug/L   | 94       |
| 18) acetone                   | 2.169          | 58   | 6087       | 7.23    | ug/L   | 90       |
| 19) acetonitrile              | 2.389          | 41   | 25690      | 20.12   | ug/L   | 88       |
| 20) iodomethane               | 1.975          | 142  | 2872       | 1.71    | ug/L   | 87       |
| 21) carbon disulfide          | 1.928          | 76   | 11723      | 1.92    | ug/L   | 95       |
| 22) methylene chloride        | 2.159          | 84   | 3952       | 1.75    | ug/L # | 74       |
| 23) methyl acetate            | 2.216          | 74   | 2089       | 2.09    | ug/L # | 76       |
| 24) methyl tert butyl ether   | 2.269          | 73   | 13778      | 1.79    | ug/L   | 78       |
| 25) trans-1,2-dichloroethene  | 2.227          | 61   | 9630       | 2.28    | ug/L   | 92       |
| 26) hexane                    | 2.263          | 57   | 15514      | 1.81    | ug/L   | 96       |
| 27) di-isopropyl ether        | 2.431          | 45   | 25700      | 1.87    | ug/L   | 100      |
| 28) ethyl tert-butyl ether    | 2.604          | 59   | 19302      | 1.79    | ug/L   | 95       |
| 29) 2-butanone                | 3.039          | 72   | 4979       | 6.95    | ug/L   | 92       |
| 30) 1,1-dichloroethane        | 2.515          | 63   | 9855       | 1.84    | ug/L   | 94       |
| 31) chloroprene               | 2.505          | 53   | 9984       | 1.74    | ug/L   | 94       |
| 32) acrylonitrile             | 2.536          | 52   | 3511       | 1.65    | ug/L   | 92       |
| 34) ethyl acetate             | 2.929          | 70   | 713        | 1.44    | ug/L # | 87       |
| 35) 2,2-dichloropropane       | 2.830          | 77   | 6601       | 1.97    | ug/L   | 92       |
| 36) cis-1,2-dichloroethene    | 2.772          | 96   | 4227       | 1.89    | ug/L   | 93       |

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\vk11\  
 Data File : 1k00262.d  
 Acq On : 16 Oct 2022 7:45 pm  
 Operator : PrashanS  
 Sample : IC11-2  
 Misc : MS62894,V1K0011,5,,,1  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 17 16:03:12 2022

Quant Method : C:\msdchem\1\methods\M1K11.M

Quant Title : SW-846 Method 8260D, column Rtx-VMS 20m x 0.18 id x 1.0 um

QLast Update : Mon Oct 17 14:53:51 2022

Response via : Initial Calibration

| Compound                      | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|-------|--------|----------|
| 37) propionitrile             | 3.202 | 54   | 21156    | 18.52 | ug/L # | 47       |
| 38) methyl acrylate           | 2.945 | 85   | 1452     | 1.94  | ug/L # | 86       |
| 39) bromochloromethane        | 2.872 | 128  | 1723     | 2.00  | ug/L   | 91       |
| 40) tetrahydrofuran           | 2.977 | 71   | 963      | 1.57  | ug/L # | 86       |
| 41) chloroform                | 2.898 | 47   | 3081     | 1.87  | ug/L   | 95       |
| 43) methacrylonitrile         | 3.212 | 67   | 4140     | 2.28  | ug/L # | 73       |
| 44) 1,1,1-trichloroethane     | 3.018 | 97   | 5927     | 1.77  | ug/L   | 96       |
| 45) cyclohexane               | 2.887 | 84   | 7488     | 1.83  | ug/L   | 89       |
| 46) 1,1-dichloropropene       | 3.071 | 75   | 6581     | 1.90  | ug/L   | 94       |
| 47) carbon tetrachloride      | 2.987 | 117  | 5792     | 1.99  | ug/L # | 84       |
| 48) isobutyl alcohol          | 3.249 | 43   | 13684    | 17.62 | ug/L   | 92       |
| 49) tert-amyl alcohol         | 3.307 | 55   | 3708     | 9.81  | ug/L # | 59       |
| 52) iso-octane                | 3.118 | 57   | 28288    | 1.96  | ug/L   | 94       |
| 53) benzene                   | 3.202 | 78   | 19163    | 1.97  | ug/L   | 94       |
| 54) tert-amyl methyl ether    | 3.239 | 73   | 15024    | 1.94  | ug/L   | 91       |
| 55) heptane                   | 3.160 | 57   | 3912     | 1.71  | ug/L   | 95       |
| 57) 1,2-dichloroethane        | 3.302 | 62   | 7470     | 2.08  | ug/L   | 96       |
| 58) n-butyl alcohol           | 3.627 | 56   | 21968    | 84.06 | ug/L   | 97       |
| 59) ethyl acrylate            | 3.768 | 55   | 9591     | 1.49  | ug/L   | 100      |
| 60) trichloroethene           | 3.506 | 130  | 3884     | 1.94  | ug/L   | 88       |
| 61) 2-nitropropane            | 4.471 | 41   | 3822     | 2.30  | ug/L   | 86       |
| 62) 2-chloroethyl vinyl ether | 4.135 | 63   | 20095    | 8.72  | ug/L   | 83       |
| 63) methyl methacrylate       | 3.889 | 100  | 1365     | 1.57  | ug/L # | 63       |
| 64) 1,2-dichloropropane       | 3.800 | 63   | 6028     | 1.97  | ug/L   | 89       |
| 65) methylcyclohexane         | 3.511 | 55   | 11053    | 2.20  | ug/L   | 98       |
| 66) dibromomethane            | 3.742 | 93   | 2659     | 2.03  | ug/L   | 89       |
| 67) bromodichloromethane      | 3.821 | 83   | 5355     | 1.84  | ug/L   | 100      |
| 68) epichlorohydrin           | 4.334 | 57   | 6681     | 9.61  | ug/L   | 92       |
| 69) cis-1,3-dichloropropene   | 4.188 | 75   | 7097     | 1.78  | ug/L   | 88       |
| 70) 4-methyl-2-pentanone      | 4.555 | 58   | 17019    | 7.19  | ug/L   | 98       |
| 71) 3-methyl-1-butanol        | 4.403 | 70   | 5792     | 31.04 | ug/L   | 90       |
| 74) toluene                   | 4.334 | 92   | 11096    | 1.98  | ug/L   | 92       |
| 75) ethyl methacrylate        | 4.670 | 69   | 5936     | 1.56  | ug/L   | 93       |
| 76) trans-1,3-dichloropropene | 4.586 | 75   | 6988     | 1.95  | ug/L   | 97       |
| 77) 1,1,2-trichloroethane     | 4.691 | 83   | 3338     | 2.04  | ug/L   | 97       |
| 78) tetrachloroethene         | 4.586 | 166  | 3715     | 2.05  | ug/L   | 91       |
| 79) 2-hexanone                | 5.100 | 58   | 19381    | 7.38  | ug/L   | 96       |
| 80) 1,3-dichloropropane       | 4.875 | 76   | 7905     | 2.00  | ug/L   | 94       |
| 82) dibromochloromethane      | 4.812 | 129  | 3590     | 1.87  | ug/L   | 90       |
| 83) 1,2-dibromoethane         | 4.979 | 107  | 3576     | 1.83  | ug/L   | 89       |
| 84) n-butyl ether             | 5.236 | 57   | 29901    | 1.86  | ug/L   | 96       |
| 85) chlorobenzene             | 5.331 | 112  | 10638    | 2.02  | ug/L   | 98       |
| 86) 1,1,1,2-tetrachloroethane | 5.367 | 131  | 3143     | 1.79  | ug/L   | 98       |
| 87) ethylbenzene              | 5.341 | 91   | 21194    | 1.99  | ug/L   | 96       |
| 88) m,p-xylene                | 5.441 | 106  | 15110    | 4.01  | ug/L   | 97       |
| 89) o-xylene                  | 5.750 | 106  | 7488     | 1.99  | ug/L   | 93       |
| 90) styrene                   | 5.782 | 104  | 11477    | 1.81  | ug/L   | 95       |
| 91) bromoform                 | 5.813 | 173  | 2452     | 1.70  | ug/L   | 94       |
| 93) isopropylbenzene          | 5.976 | 105  | 20125    | 1.98  | ug/L   | 98       |
| 94) cis-1,4-dichloro-2-butene | 6.227 | 88   | 2569     | 1.70  | ug/L # | 87       |

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\vk11\  
 Data File : 1k00262.d  
 Acq On : 16 Oct 2022 7:45 pm  
 Operator : PrashanS  
 Sample : IC11-2  
 Misc : MS62894,V1K0011,5,,,,,1  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 17 16:03:12 2022

Quant Method : C:\msdchem\1\methods\M1K11.M

Quant Title : SW-846 Method 8260D, column Rtx-VMS 20m x 0.18 id x 1.0 um

QLast Update : Mon Oct 17 14:53:51 2022

Response via : Initial Calibration

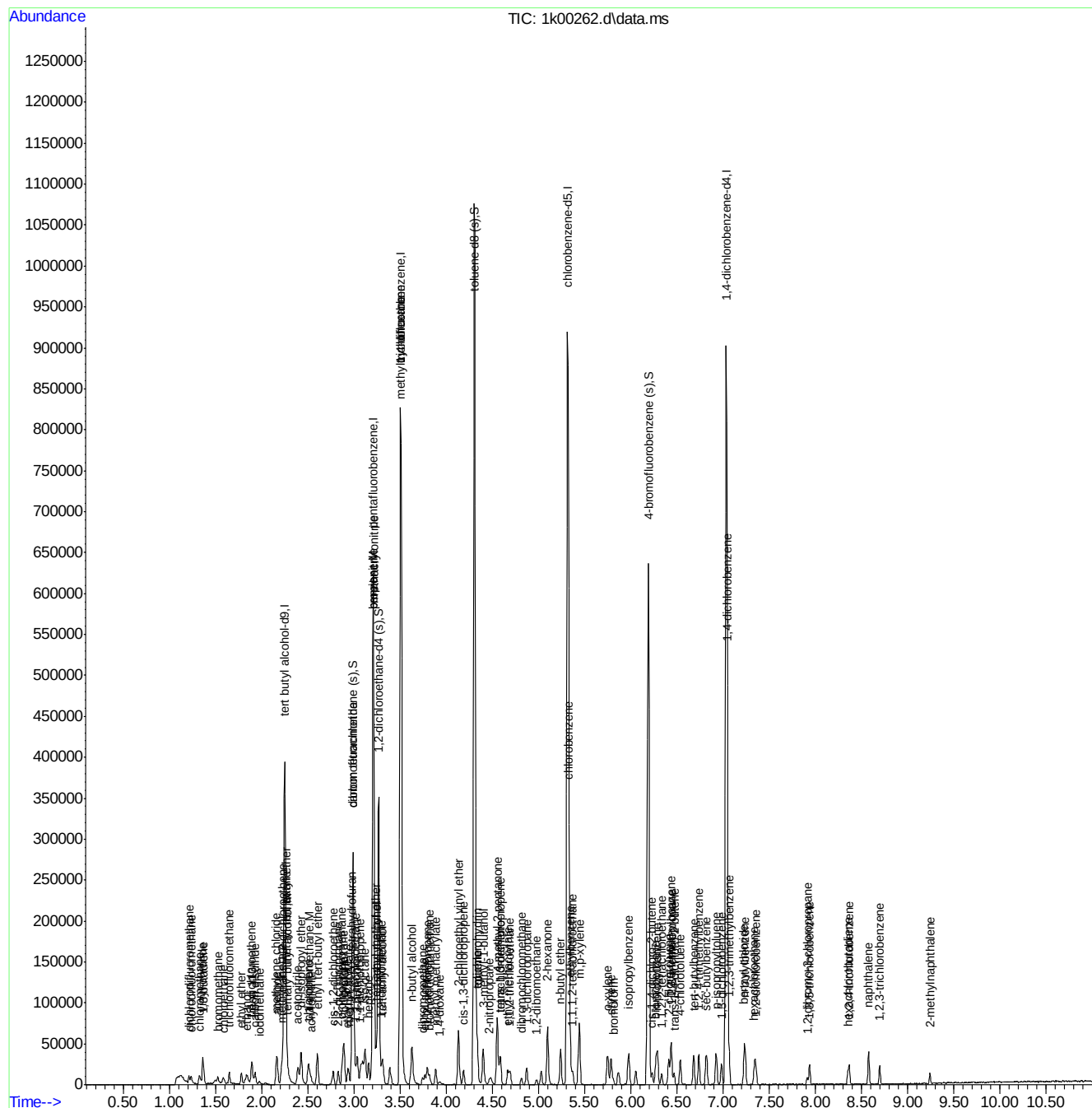
| Compound                       | R.T.  | QIon | Response | Conc | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|------|--------|----------|
| 97) bromobenzene               | 6.269 | 156  | 3812     | 1.96 | ug/L   | 92       |
| 98) 1,1,2,2-tetrachloroethane  | 6.332 | 83   | 6469     | 2.07 | ug/L   | 97       |
| 99) trans-1,4-dichloro-2-b...  | 6.474 | 53   | 2970     | 1.65 | ug/L   | 85       |
| 100) 1,2,3-trichloropropane    | 6.442 | 110  | 1702     | 1.74 | ug/L   | 82       |
| 101) n-propylbenzene           | 6.290 | 91   | 24348    | 1.94 | ug/L   | 95       |
| 102) 2-chlorotoluene           | 6.411 | 126  | 4322     | 2.15 | ug/L # | 84       |
| 103) 4-chlorotoluene           | 6.537 | 91   | 14172    | 1.90 | ug/L   | 100      |
| 104) 1,3,5-trimethylbenzene    | 6.437 | 105  | 15938    | 1.93 | ug/L   | 98       |
| 105) tert-butylbenzene         | 6.683 | 119  | 12932    | 1.94 | ug/L   | 94       |
| 106) 1,2,4-trimethylbenzene    | 6.736 | 105  | 16665    | 1.95 | ug/L   | 99       |
| 107) sec-butylbenzene          | 6.820 | 105  | 20445    | 1.88 | ug/L   | 98       |
| 108) 1,3-dichlorobenzene       | 6.982 | 146  | 7845     | 1.96 | ug/L   | 91       |
| 109) p-isopropyltoluene        | 6.925 | 119  | 15455    | 1.85 | ug/L   | 95       |
| 110) 1,4-dichlorobenzene       | 7.045 | 146  | 7978     | 2.01 | ug/L   | 93       |
| 111) 1,2-dichlorobenzene       | 7.354 | 146  | 7974     | 2.07 | ug/L   | 89       |
| 112) 1,2,3-trimethylbenzene    | 7.061 | 105  | 16248    | 1.88 | ug/L   | 98       |
| 113) n-butylbenzene            | 7.234 | 92   | 9629     | 1.79 | ug/L   | 86       |
| 114) 1,2-dibromo-3-chloropr... | 7.915 | 157  | 1740     | 1.84 | ug/L # | 77       |
| 115) 1,3,5-trichlorobenzene    | 7.936 | 180  | 5375     | 1.89 | ug/L   | 93       |
| 116) 1,2,4-trichlorobenzene    | 8.366 | 180  | 4714     | 1.90 | ug/L   | 88       |
| 117) hexachlorobutadiene       | 8.351 | 225  | 2147     | 1.99 | ug/L   | 86       |
| 118) naphthalene               | 8.576 | 128  | 17792    | 1.79 | ug/L   | 98       |
| 119) 1,2,3-trichlorobenzene    | 8.697 | 180  | 4757     | 1.95 | ug/L   | 92       |
| 120) hexachloroethane          | 7.339 | 119  | 2437     | 1.71 | ug/L   | 91       |
| 121) benzyl chloride           | 7.229 | 126  | 1842     | 1.67 | ug/L   | 89       |
| 122) 2-methylnaphthalene       | 9.242 | 142  | 4095     | 0.84 | ug/L   | 81       |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\vk11\  
Data File : 1k00262.d  
Acq On : 16 Oct 2022 7:45 pm  
Operator : Prashans  
Sample : IC11-2  
Misc : MS62894,V1K0011,5,,,,,1  
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 17 16:03:12 2022  
Quant Method : C:\msdchem\1\methods\M1K11.M  
Quant Title : SW-846 Method 8260D, column Rtx-VMS 20m x 0.18 id x 1.0 um  
QLast Update : Mon Oct 17 14:53:51 2022  
Response via : Initial Calibration



M1K11.M Thu Oct 20 12:16:54 2022 RPT1

Page: 4

## 7.6.4



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\vk11\  
 Data File : 1k00264.d  
 Acq On : 16 Oct 2022 8:18 pm  
 Operator : PrashanS  
 Sample : IC11-4  
 Misc : MS62894,V1K0011,5,,,1  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 17 16:03:30 2022

Quant Method : C:\msdchem\1\methods\M1K11.M

Quant Title : SW-846 Method 8260D, column Rtx-VMS 20m x 0.18 id x 1.0 um

QLast Update : Mon Oct 17 14:53:51 2022

Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| Internal Standards            |        |       |          |          |        |          |
| 1) tert butyl alcohol-d9      | 2.248  | 65    | 309789   | 500.00   | ug/L   | 0.00     |
| 5) pentafluorobenzene         | 3.207  | 168   | 239162   | 50.00    | ug/L   | 0.00     |
| 50) 1,4-difluorobenzene       | 3.511  | 114   | 384191   | 50.00    | ug/L   | 0.00     |
| 72) chlorobenzene-d5          | 5.315  | 117   | 337478   | 50.00    | ug/L   | 0.00     |
| 95) 1,4-dichlorobenzene-d4    | 7.035  | 152   | 154189   | 50.00    | ug/L   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 42) dibromofluoromethane (s)  | 2.992  | 113   | 109590   | 49.29    | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 127 | Recovery | =      | 98.58%   |
| 51) 1,2-dichloroethane-d4 (s) | 3.270  | 65    | 164612   | 52.04    | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 130 | Recovery | =      | 104.08%  |
| 73) toluene-d8 (s)            | 4.303  | 98    | 489394   | 50.06    | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 80 - 120 | Recovery | =      | 100.12%  |
| 96) 4-bromofluorobenzene (s)  | 6.190  | 95    | 175912   | 51.17    | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 79 - 127 | Recovery | =      | 102.34%  |
| Target Compounds              |        |       |          |          |        |          |
| 2) ethanol                    | 1.839  | 45    | 35733    | 456.79   | ug/L   | 93       |
| 3) tertiary butyl alcohol     | 2.279  | 59    | 16573    | 19.43    | ug/L # | 92       |
| 4) 1,4-dioxane                | 3.925  | 88    | 4391     | 99.23    | ug/L   | 83       |
| 6) chlorodifluoromethane      | 1.236  | 51    | 18088    | 3.77     | ug/L   | 96       |
| 7) dichlorodifluoromethane    | 1.215  | 85    | 11663    | 3.52     | ug/L   | 96       |
| 8) chloromethane              | 1.325  | 50    | 18140    | 3.79     | ug/L   | 99       |
| 9) vinyl chloride             | 1.362  | 62    | 15100    | 3.71     | ug/L   | 94       |
| 10) 1,3-butadiene             | 1.367  | 39    | 12060    | 4.01     | ug/L   | 97       |
| 11) bromomethane              | 1.524  | 96    | 3255     | 3.13     | ug/L # | 90       |
| 12) chloroethane              | 1.587  | 64    | 8906     | 4.34     | ug/L   | 99       |
| 13) trichlorofluoromethane    | 1.650  | 101   | 11251    | 3.50     | ug/L   | 95       |
| 14) ethyl ether               | 1.781  | 74    | 5677     | 3.88     | ug/L   | 81       |
| 15) acrolein                  | 2.043  | 56    | 2826     | 2.73     | ug/L   | 89       |
| 16) freon 113                 | 1.902  | 151   | 5456     | 3.93     | ug/L   | 98       |
| 17) 1,1-dichloroethene        | 1.896  | 61    | 15360    | 3.75     | ug/L   | 98       |
| 18) acetone                   | 2.164  | 58    | 12270    | 15.02    | ug/L # | 83       |
| 19) acetonitrile              | 2.394  | 41    | 48657    | 39.27    | ug/L   | 97       |
| 20) iodomethane               | 1.980  | 142   | 4631     | 2.85     | ug/L   | 92       |
| 21) carbon disulfide          | 1.928  | 76    | 23855    | 4.03     | ug/L   | 95       |
| 22) methylene chloride        | 2.159  | 84    | 8047     | 3.67     | ug/L   | 97       |
| 23) methyl acetate            | 2.216  | 74    | 4181     | 4.31     | ug/L   | 92       |
| 24) methyl tert butyl ether   | 2.263  | 73    | 27936    | 3.75     | ug/L # | 49       |
| 25) trans-1,2-dichloroethene  | 2.232  | 61    | 17321    | 4.23     | ug/L   | 96       |
| 26) hexane                    | 2.263  | 57    | 32128    | 3.86     | ug/L   | 97       |
| 27) di-isopropyl ether        | 2.431  | 45    | 50665    | 3.80     | ug/L   | 98       |
| 28) ethyl tert-butyl ether    | 2.604  | 59    | 37897    | 3.62     | ug/L   | 97       |
| 29) 2-butanone                | 3.039  | 72    | 10674    | 15.36    | ug/L   | 99       |
| 30) 1,1-dichloroethane        | 2.520  | 63    | 19830    | 3.82     | ug/L   | 97       |
| 31) chloroprene               | 2.505  | 53    | 20132    | 3.62     | ug/L   | 100      |
| 32) acrylonitrile             | 2.541  | 52    | 6787     | 3.28     | ug/L   | 91       |
| 34) ethyl acetate             | 2.929  | 70    | 1603     | 3.34     | ug/L   | 97       |
| 35) 2,2-dichloropropane       | 2.830  | 77    | 12454    | 3.83     | ug/L   | 93       |



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\vk11\  
 Data File : 1k00264.d  
 Acq On : 16 Oct 2022 8:18 pm  
 Operator : PrashanS  
 Sample : IC11-4  
 Misc : MS62894,V1K0011,5,,,1  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 17 16:03:30 2022

Quant Method : C:\msdchem\1\methods\M1K11.M

Quant Title : SW-846 Method 8260D, column Rtx-VMS 20m x 0.18 id x 1.0 um

QLast Update : Mon Oct 17 14:53:51 2022

Response via : Initial Calibration

| Compound                      | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|--------|--------|----------|
| 36) cis-1,2-dichloroethene    | 2.772 | 96   | 8473     | 3.91   | ug/L   | 92       |
| 37) propionitrile             | 3.202 | 54   | 40960    | 36.95  | ug/L   | 71       |
| 38) methyl acrylate           | 2.945 | 85   | 2924     | 4.04   | ug/L # | 88       |
| 39) bromochloromethane        | 2.877 | 128  | 3413     | 4.08   | ug/L # | 68       |
| 40) tetrahydrofuran           | 2.982 | 71   | 2593     | 4.37   | ug/L # | 74       |
| 41) chloroform                | 2.898 | 47   | 6338     | 3.96   | ug/L   | 93       |
| 43) methacrylonitrile         | 3.212 | 67   | 7263     | 4.12   | ug/L   | 88       |
| 44) 1,1,1-trichloroethane     | 3.018 | 97   | 11947    | 3.69   | ug/L   | 97       |
| 45) cyclohexane               | 2.887 | 84   | 13986    | 3.52   | ug/L   | 94       |
| 46) 1,1-dichloropropene       | 3.076 | 75   | 12516    | 3.73   | ug/L   | 98       |
| 47) carbon tetrachloride      | 2.987 | 117  | 10937    | 3.88   | ug/L   | 95       |
| 48) isobutyl alcohol          | 3.244 | 43   | 28179    | 37.39  | ug/L   | 97       |
| 49) tert-amyl alcohol         | 3.317 | 55   | 6971     | 19.00  | ug/L # | 74       |
| 52) iso-octane                | 3.123 | 57   | 56460    | 4.06   | ug/L   | 98       |
| 53) benzene                   | 3.202 | 78   | 36753    | 3.91   | ug/L   | 97       |
| 54) tert-amyl methyl ether    | 3.239 | 73   | 29546    | 3.95   | ug/L   | 96       |
| 55) heptane                   | 3.160 | 57   | 8776     | 3.97   | ug/L   | 88       |
| 56) isopropyl acetate         | 3.391 | 87   | 2468     | 3.28   | ug/L # | 75       |
| 57) 1,2-dichloroethane        | 3.307 | 62   | 14393    | 4.14   | ug/L   | 92       |
| 58) n-butyl alcohol           | 3.627 | 56   | 45246    | 179.39 | ug/L   | 97       |
| 59) ethyl acrylate            | 3.768 | 55   | 19736    | 3.17   | ug/L   | 99       |
| 60) trichloroethene           | 3.506 | 130  | 7856     | 4.07   | ug/L   | 95       |
| 61) 2-nitropropane            | 4.471 | 41   | 7207     | 4.49   | ug/L   | 90       |
| 62) 2-chloroethyl vinyl ether | 4.135 | 63   | 41994    | 18.87  | ug/L   | 99       |
| 63) methyl methacrylate       | 3.883 | 100  | 3133     | 3.74   | ug/L   | 96       |
| 64) 1,2-dichloropropane       | 3.794 | 63   | 11468    | 3.89   | ug/L   | 96       |
| 65) methylcyclohexane         | 3.511 | 55   | 20712    | 4.27   | ug/L   | 97       |
| 66) dibromomethane            | 3.742 | 93   | 4687     | 3.72   | ug/L   | 98       |
| 67) bromodichloromethane      | 3.821 | 83   | 10965    | 3.89   | ug/L   | 94       |
| 68) epichlorohydrin           | 4.334 | 57   | 12279    | 18.31  | ug/L   | 96       |
| 69) cis-1,3-dichloropropene   | 4.188 | 75   | 14377    | 3.73   | ug/L   | 94       |
| 70) 4-methyl-2-pentanone      | 4.555 | 58   | 35351    | 15.48  | ug/L   | 97       |
| 71) 3-methyl-1-butanol        | 4.397 | 70   | 11698    | 64.96  | ug/L   | 97       |
| 74) toluene                   | 4.340 | 92   | 21180    | 3.87   | ug/L   | 91       |
| 75) ethyl methacrylate        | 4.670 | 69   | 12913    | 3.49   | ug/L   | 96       |
| 76) trans-1,3-dichloropropene | 4.586 | 75   | 13059    | 3.73   | ug/L   | 98       |
| 77) 1,1,2-trichloroethane     | 4.691 | 83   | 6406     | 4.00   | ug/L   | 93       |
| 78) tetrachloroethene         | 4.586 | 166  | 7253     | 4.10   | ug/L   | 91       |
| 79) 2-hexanone                | 5.100 | 58   | 38147    | 14.87  | ug/L   | 99       |
| 80) 1,3-dichloropropane       | 4.874 | 76   | 15258    | 3.96   | ug/L   | 96       |
| 81) butyl acetate             | 5.026 | 56   | 9010     | 2.90   | ug/L   | 94       |
| 82) dibromochloromethane      | 4.811 | 129  | 6937     | 3.70   | ug/L   | 97       |
| 83) 1,2-dibromoethane         | 4.979 | 107  | 7615     | 3.98   | ug/L   | 97       |
| 84) n-butyl ether             | 5.236 | 57   | 59291    | 3.79   | ug/L   | 98       |
| 85) chlorobenzene             | 5.331 | 112  | 20654    | 4.01   | ug/L   | 97       |
| 86) 1,1,1,2-tetrachloroethane | 5.367 | 131  | 6470     | 3.77   | ug/L   | 92       |
| 87) ethylbenzene              | 5.341 | 91   | 41097    | 3.95   | ug/L   | 96       |
| 88) m,p-xylene                | 5.441 | 106  | 29001    | 7.88   | ug/L   | 99       |
| 89) o-xylene                  | 5.745 | 106  | 14236    | 3.87   | ug/L   | 87       |
| 90) styrene                   | 5.787 | 104  | 23188    | 3.74   | ug/L   | 99       |

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\vk11\  
 Data File : 1k00264.d  
 Acq On : 16 Oct 2022 8:18 pm  
 Operator : PrashanS  
 Sample : IC11-4  
 Misc : MS62894,V1K0011,5,,,1  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 17 16:03:30 2022  
 Quant Method : C:\msdchem\1\methods\M1K11.M  
 Quant Title : SW-846 Method 8260D, column Rtx-VMS 20m x 0.18 id x 1.0 um  
 QLast Update : Mon Oct 17 14:53:51 2022  
 Response via : Initial Calibration

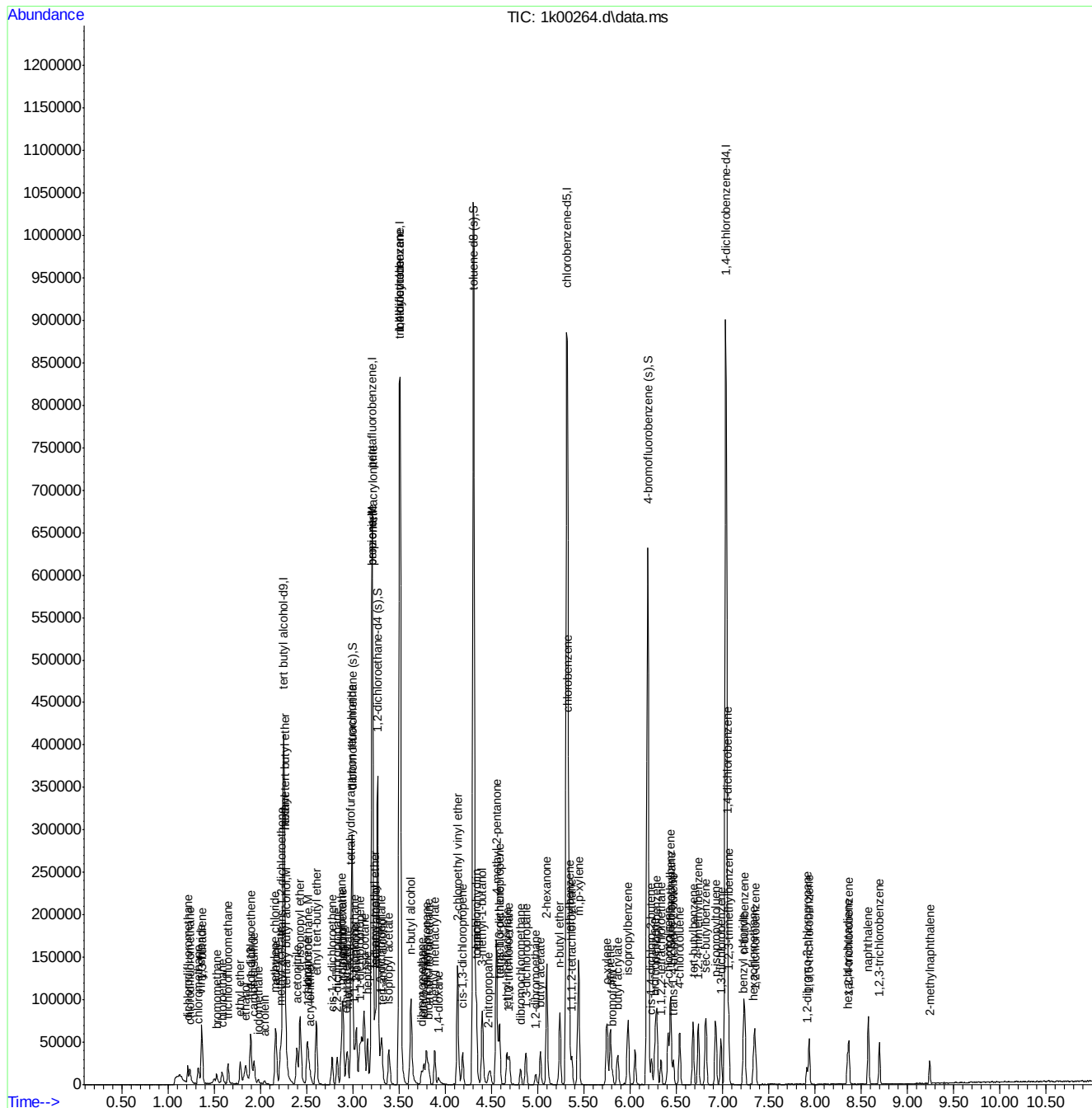
| Compound                       | R.T.  | QIon | Response | Conc | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|------|--------|----------|
| 91) bromoform                  | 5.808 | 173  | 5023     | 3.57 | ug/L   | 86       |
| 92) butyl acrylate             | 5.865 | 55   | 19918    | 2.74 | ug/L   | 93       |
| 93) isopropylbenzene           | 5.975 | 105  | 38490    | 3.88 | ug/L   | 99       |
| 94) cis-1,4-dichloro-2-butene  | 6.227 | 88   | 4899     | 3.31 | ug/L   | 92       |
| 97) bromobenzene               | 6.269 | 156  | 7514     | 3.95 | ug/L   | 99       |
| 98) 1,1,2,2-tetrachloroethane  | 6.332 | 83   | 12729    | 4.17 | ug/L   | 94       |
| 99) trans-1,4-dichloro-2-b...  | 6.468 | 53   | 6437     | 3.65 | ug/L   | 87       |
| 100) 1,2,3-trichloropropane    | 6.442 | 110  | 3722     | 3.89 | ug/L   | 98       |
| 101) n-propylbenzene           | 6.285 | 91   | 48543    | 3.97 | ug/L   | 98       |
| 102) 2-chlorotoluene           | 6.411 | 126  | 7490     | 3.82 | ug/L # | 86       |
| 103) 4-chlorotoluene           | 6.536 | 91   | 29248    | 4.02 | ug/L   | 95       |
| 104) 1,3,5-trimethylbenzene    | 6.437 | 105  | 31730    | 3.94 | ug/L   | 99       |
| 105) tert-butylbenzene         | 6.683 | 119  | 25473    | 3.91 | ug/L   | 96       |
| 106) 1,2,4-trimethylbenzene    | 6.736 | 105  | 32143    | 3.85 | ug/L   | 99       |
| 107) sec-butylbenzene          | 6.820 | 105  | 42655    | 4.02 | ug/L   | 97       |
| 108) 1,3-dichlorobenzene       | 6.982 | 146  | 15281    | 3.90 | ug/L   | 99       |
| 109) p-isopropyltoluene        | 6.924 | 119  | 30892    | 3.78 | ug/L   | 97       |
| 110) 1,4-dichlorobenzene       | 7.050 | 146  | 15257    | 3.93 | ug/L   | 95       |
| 111) 1,2-dichlorobenzene       | 7.354 | 146  | 14998    | 3.98 | ug/L   | 93       |
| 112) 1,2,3-trimethylbenzene    | 7.066 | 105  | 33723    | 3.99 | ug/L   | 99       |
| 113) n-butylbenzene            | 7.234 | 92   | 20088    | 3.83 | ug/L   | 82       |
| 114) 1,2-dibromo-3-chloropr... | 7.910 | 157  | 3188     | 3.45 | ug/L   | 86       |
| 115) 1,3,5-trichlorobenzene    | 7.936 | 180  | 11394    | 4.10 | ug/L   | 94       |
| 116) 1,2,4-trichlorobenzene    | 8.366 | 180  | 9450     | 3.91 | ug/L   | 97       |
| 117) hexachlorobutadiene       | 8.351 | 225  | 4168     | 3.96 | ug/L   | 93       |
| 118) naphthalene               | 8.576 | 128  | 35942    | 3.69 | ug/L   | 97       |
| 119) 1,2,3-trichlorobenzene    | 8.697 | 180  | 9922     | 4.16 | ug/L   | 96       |
| 120) hexachloroethane          | 7.339 | 119  | 5079     | 3.65 | ug/L   | 93       |
| 121) benzyl chloride           | 7.223 | 126  | 3722     | 3.45 | ug/L   | 97       |
| 122) 2-methylnaphthalene       | 9.242 | 142  | 8845     | 1.85 | ug/L   | 93       |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\vk11\  
Data File : 1k00264.d  
Acq On : 16 Oct 2022 8:18 pm  
Operator : PrashanS  
Sample : IC11-4  
Misc : MS62894,V1K0011,5,,,,,1  
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 17 16:03:30 2022  
Quant Method : C:\msdchem\1\methods\M1K11.M  
Quant Title : SW-846 Method 8260D, column Rtx-VMS 20m x 0.18 id x 1.0 um  
QLast Update : Mon Oct 17 14:53:51 2022  
Response via : Initial Calibration



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\vk11\  
 Data File : 1k00266.d  
 Acq On : 16 Oct 2022 8:50 pm  
 Operator : PrashanS  
 Sample : IC11-8  
 Misc : MS62894,V1K0011,5,,,1  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 17 14:57:39 2022

Quant Method : C:\msdchem\1\methods\M1K11.M

Quant Title : SW-846 Method 8260D, column Rtx-VMS 20m x 0.18 id x 1.0 um

QLast Update : Mon Oct 17 14:53:51 2022

Response via : Initial Calibration

| Compound                      | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|---------|--------|----------|
| Internal Standards            |                |      |            |         |        |          |
| 1) tert butyl alcohol-d9      | 2.248          | 65   | 287771     | 500.00  | ug/L   | 0.00     |
| 5) pentafluorobenzene         | 3.207          | 168  | 218834     | 50.00   | ug/L   | 0.00     |
| 50) 1,4-difluorobenzene       | 3.511          | 114  | 361227     | 50.00   | ug/L   | 0.00     |
| 72) chlorobenzene-d5          | 5.315          | 117  | 318452     | 50.00   | ug/L   | 0.00     |
| 95) 1,4-dichlorobenzene-d4    | 7.040          | 152  | 143158     | 50.00   | ug/L   | 0.00     |
| System Monitoring Compounds   |                |      |            |         |        |          |
| 42) dibromofluoromethane (s)  | 2.987          | 113  | 103220     | 50.74   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 127 |      | Recovery = | 101.48% |        |          |
| 51) 1,2-dichloroethane-d4 (s) | 3.270          | 65   | 157972     | 53.11   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 130 |      | Recovery = | 106.22% |        |          |
| 73) toluene-d8 (s)            | 4.308          | 98   | 463047     | 50.19   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 80 - 120 |      | Recovery = | 100.38% |        |          |
| 96) 4-bromofluorobenzene (s)  | 6.190          | 95   | 164848     | 51.64   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 79 - 127 |      | Recovery = | 103.28% |        |          |
| Target Compounds              |                |      |            |         |        |          |
| 2) ethanol                    | 1.839          | 45   | 68201      | 938.55  | ug/L   | 97       |
| 3) tertiary butyl alcohol     | 2.284          | 59   | 31516      | 39.77   | ug/L # | 84       |
| 4) 1,4-dioxane                | 3.931          | 88   | 8425       | 204.96  | ug/L   | 93       |
| 6) chlorodifluoromethane      | 1.236          | 51   | 35693      | 8.12    | ug/L   | 92       |
| 7) dichlorodifluoromethane    | 1.215          | 85   | 22576      | 7.44    | ug/L   | 98       |
| 8) chloromethane              | 1.330          | 50   | 35118      | 8.03    | ug/L   | 95       |
| 9) vinyl chloride             | 1.361          | 62   | 28704      | 7.71    | ug/L   | 97       |
| 10) 1,3-butadiene             | 1.367          | 39   | 22166      | 8.06    | ug/L   | 98       |
| 11) bromomethane              | 1.524          | 96   | 6445       | 6.77    | ug/L # | 99       |
| 12) chloroethane              | 1.587          | 64   | 16009      | 8.52    | ug/L   | 99       |
| 13) trichlorofluoromethane    | 1.650          | 101  | 21663      | 7.36    | ug/L   | 98       |
| 14) ethyl ether               | 1.781          | 74   | 10156      | 7.59    | ug/L   | 96       |
| 15) acrolein                  | 2.038          | 56   | 5879       | 6.21    | ug/L   | 96       |
| 16) freon 113                 | 1.902          | 151  | 9174       | 7.23    | ug/L   | 89       |
| 17) 1,1-dichloroethene        | 1.891          | 61   | 27865      | 7.44    | ug/L   | 97       |
| 18) acetone                   | 2.169          | 58   | 22472      | 30.07   | ug/L   | 99       |
| 19) acetonitrile              | 2.394          | 41   | 91832      | 81.01   | ug/L   | 97       |
| 20) iodomethane               | 1.980          | 142  | 8543       | 5.74    | ug/L   | 98       |
| 21) carbon disulfide          | 1.928          | 76   | 42767      | 7.90    | ug/L   | 98       |
| 22) methylene chloride        | 2.158          | 84   | 14937      | 7.45    | ug/L   | 89       |
| 23) methyl acetate            | 2.216          | 74   | 7781       | 8.77    | ug/L   | 98       |
| 24) methyl tert butyl ether   | 2.263          | 73   | 51180      | 7.50    | ug/L # | 52       |
| 25) trans-1,2-dichloroethene  | 2.232          | 61   | 30248      | 8.07    | ug/L   | 95       |
| 26) hexane                    | 2.263          | 57   | 59165      | 7.77    | ug/L   | 97       |
| 27) di-isopropyl ether        | 2.431          | 45   | 95432      | 7.83    | ug/L   | 98       |
| 28) ethyl tert-butyl ether    | 2.604          | 59   | 72737      | 7.60    | ug/L   | 98       |
| 29) 2-butanone                | 3.039          | 72   | 19897      | 31.30   | ug/L   | 97       |
| 30) 1,1-dichloroethane        | 2.520          | 63   | 36244      | 7.63    | ug/L   | 99       |
| 31) chloroprene               | 2.504          | 53   | 40020      | 7.86    | ug/L   | 98       |
| 32) acrylonitrile             | 2.536          | 52   | 13600      | 7.18    | ug/L   | 94       |
| 33) vinyl acetate             | 2.609          | 86   | 2107       | 5.24    | ug/L # | 73       |
| 34) ethyl acetate             | 2.929          | 70   | 2836       | 6.47    | ug/L   | 91       |

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\vk11\  
 Data File : 1k00266.d  
 Acq On : 16 Oct 2022 8:50 pm  
 Operator : PrashanS  
 Sample : IC11-8  
 Misc : MS62894,V1K0011,5,,,1  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 17 14:57:39 2022

Quant Method : C:\msdchem\1\methods\M1K11.M

Quant Title : SW-846 Method 8260D, column Rtx-VMS 20m x 0.18 id x 1.0 um

QLast Update : Mon Oct 17 14:53:51 2022

Response via : Initial Calibration

| Compound                      | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|--------|--------|----------|
| 35) 2,2-dichloropropane       | 2.835 | 77   | 23900    | 8.03   | ug/L   | 96       |
| 36) cis-1,2-dichloroethene    | 2.772 | 96   | 15362    | 7.74   | ug/L   | 90       |
| 37) propionitrile             | 3.202 | 54   | 78594    | 77.49  | ug/L   | 89       |
| 38) methyl acrylate           | 2.945 | 85   | 5251     | 7.92   | ug/L   | 98       |
| 39) bromochloromethane        | 2.877 | 128  | 6297     | 8.22   | ug/L   | 90       |
| 40) tetrahydrofuran           | 2.982 | 71   | 4162     | 7.66   | ug/L   | 96       |
| 41) chloroform                | 2.892 | 47   | 11944    | 8.15   | ug/L   | 93       |
| 43) methacrylonitrile         | 3.212 | 67   | 13449    | 8.34   | ug/L   | 87       |
| 44) 1,1,1-trichloroethane     | 3.018 | 97   | 22323    | 7.53   | ug/L   | 96       |
| 45) cyclohexane               | 2.887 | 84   | 27679    | 7.61   | ug/L   | 88       |
| 46) 1,1-dichloropropene       | 3.076 | 75   | 23129    | 7.54   | ug/L   | 98       |
| 47) carbon tetrachloride      | 2.987 | 117  | 18937    | 7.34   | ug/L   | 96       |
| 48) isobutyl alcohol          | 3.244 | 43   | 51485    | 74.67  | ug/L   | 97       |
| 49) tert-amyl alcohol         | 3.312 | 55   | 13295    | 39.60  | ug/L   | 90       |
| 52) iso-octane                | 3.123 | 57   | 106273   | 8.13   | ug/L   | 97       |
| 53) benzene                   | 3.202 | 78   | 68879    | 7.80   | ug/L   | 96       |
| 54) tert-amyl methyl ether    | 3.239 | 73   | 55645    | 7.91   | ug/L   | 99       |
| 55) heptane                   | 3.160 | 57   | 14064    | 6.76   | ug/L   | 92       |
| 56) isopropyl acetate         | 3.391 | 87   | 4933     | 6.98   | ug/L # | 81       |
| 57) 1,2-dichloroethane        | 3.301 | 62   | 26013    | 7.97   | ug/L   | 98       |
| 58) n-butyl alcohol           | 3.626 | 56   | 89474    | 377.30 | ug/L   | 99       |
| 59) ethyl acrylate            | 3.768 | 55   | 39860    | 6.81   | ug/L   | 98       |
| 60) trichloroethene           | 3.506 | 130  | 13785    | 7.60   | ug/L   | 98       |
| 61) 2-nitropropane            | 4.471 | 41   | 11422    | 7.57   | ug/L   | 95       |
| 62) 2-chloroethyl vinyl ether | 4.135 | 63   | 80320    | 38.39  | ug/L   | 98       |
| 63) methyl methacrylate       | 3.883 | 100  | 6077     | 7.71   | ug/L # | 84       |
| 64) 1,2-dichloropropane       | 3.794 | 63   | 21867    | 7.89   | ug/L   | 97       |
| 65) methylcyclohexane         | 3.511 | 55   | 36624    | 8.02   | ug/L   | 96       |
| 66) dibromomethane            | 3.742 | 93   | 9122     | 7.69   | ug/L   | 97       |
| 67) bromodichloromethane      | 3.820 | 83   | 19628    | 7.41   | ug/L   | 95       |
| 68) epichlorohydrin           | 4.334 | 57   | 23858    | 37.83  | ug/L   | 94       |
| 69) cis-1,3-dichloropropene   | 4.187 | 75   | 27163    | 7.49   | ug/L   | 99       |
| 70) 4-methyl-2-pentanone      | 4.555 | 58   | 65632    | 30.57  | ug/L   | 95       |
| 71) 3-methyl-1-butanol        | 4.402 | 70   | 23382    | 138.10 | ug/L   | 96       |
| 74) toluene                   | 4.340 | 92   | 39875    | 7.73   | ug/L   | 96       |
| 75) ethyl methacrylate        | 4.670 | 69   | 24750    | 7.08   | ug/L   | 97       |
| 76) trans-1,3-dichloropropene | 4.586 | 75   | 24201    | 7.32   | ug/L   | 97       |
| 77) 1,1,2-trichloroethane     | 4.691 | 83   | 12193    | 8.07   | ug/L   | 96       |
| 78) tetrachloroethene         | 4.586 | 166  | 13429    | 8.04   | ug/L   | 95       |
| 79) 2-hexanone                | 5.100 | 58   | 73886    | 30.52  | ug/L   | 98       |
| 80) 1,3-dichloropropane       | 4.874 | 76   | 29418    | 8.09   | ug/L   | 97       |
| 81) butyl acetate             | 5.026 | 56   | 18239    | 6.22   | ug/L   | 95       |
| 82) dibromochloromethane      | 4.811 | 129  | 13484    | 7.63   | ug/L   | 94       |
| 83) 1,2-dibromoethane         | 4.979 | 107  | 13858    | 7.68   | ug/L   | 96       |
| 84) n-butyl ether             | 5.236 | 57   | 114383   | 7.74   | ug/L   | 98       |
| 85) chlorobenzene             | 5.330 | 112  | 37409    | 7.69   | ug/L   | 99       |
| 86) 1,1,1,2-tetrachloroethane | 5.372 | 131  | 12079    | 7.46   | ug/L   | 97       |
| 87) ethylbenzene              | 5.341 | 91   | 76848    | 7.82   | ug/L   | 98       |
| 88) m,p-xylene                | 5.441 | 106  | 53780    | 15.49  | ug/L   | 96       |
| 89) o-xylene                  | 5.745 | 106  | 26647    | 7.68   | ug/L   | 98       |

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\vk11\  
 Data File : 1k00266.d  
 Acq On : 16 Oct 2022 8:50 pm  
 Operator : PrashanS  
 Sample : IC11-8  
 Misc : MS62894,V1K0011,5,,,1  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 17 14:57:39 2022

Quant Method : C:\msdchem\1\methods\M1K11.M

Quant Title : SW-846 Method 8260D, column Rtx-VMS 20m x 0.18 id x 1.0 um

QLast Update : Mon Oct 17 14:53:51 2022

Response via : Initial Calibration

| Compound                       | R.T.  | QIon | Response | Conc | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|------|--------|----------|
| 90) styrene                    | 5.787 | 104  | 43957    | 7.52 | ug/L   | 97       |
| 91) bromoform                  | 5.808 | 173  | 9579     | 7.20 | ug/L   | 94       |
| 92) butyl acrylate             | 5.865 | 55   | 40771    | 5.94 | ug/L   | 97       |
| 93) isopropylbenzene           | 5.975 | 105  | 71634    | 7.64 | ug/L   | 98       |
| 94) cis-1,4-dichloro-2-butene  | 6.232 | 88   | 9172     | 6.57 | ug/L # | 79       |
| 97) bromobenzene               | 6.274 | 156  | 14392    | 8.14 | ug/L   | 98       |
| 98) 1,1,2,2-tetrachloroethane  | 6.332 | 83   | 23099    | 8.14 | ug/L   | 93       |
| 99) trans-1,4-dichloro-2-b...  | 6.468 | 53   | 13081    | 8.00 | ug/L   | 97       |
| 100) 1,2,3-trichloropropane    | 6.442 | 110  | 6811     | 7.66 | ug/L   | 97       |
| 101) n-propylbenzene           | 6.285 | 91   | 90443    | 7.96 | ug/L   | 100      |
| 102) 2-chlorotoluene           | 6.411 | 126  | 14514    | 7.97 | ug/L   | 91       |
| 103) 4-chlorotoluene           | 6.536 | 91   | 54202    | 8.01 | ug/L   | 99       |
| 104) 1,3,5-trimethylbenzene    | 6.437 | 105  | 57995    | 7.76 | ug/L   | 96       |
| 105) tert-butylbenzene         | 6.683 | 119  | 45901    | 7.59 | ug/L   | 93       |
| 106) 1,2,4-trimethylbenzene    | 6.736 | 105  | 60830    | 7.84 | ug/L   | 98       |
| 107) sec-butylbenzene          | 6.819 | 105  | 78056    | 7.92 | ug/L   | 99       |
| 108) 1,3-dichlorobenzene       | 6.982 | 146  | 28071    | 7.72 | ug/L   | 93       |
| 109) p-isopropyltoluene        | 6.924 | 119  | 58436    | 7.69 | ug/L   | 95       |
| 110) 1,4-dichlorobenzene       | 7.045 | 146  | 27842    | 7.72 | ug/L   | 96       |
| 111) 1,2-dichlorobenzene       | 7.354 | 146  | 26701    | 7.62 | ug/L   | 97       |
| 112) 1,2,3-trimethylbenzene    | 7.066 | 105  | 61373    | 7.83 | ug/L   | 98       |
| 113) n-butylbenzene            | 7.239 | 92   | 37457    | 7.69 | ug/L   | 99       |
| 114) 1,2-dibromo-3-chloropr... | 7.910 | 157  | 6297     | 7.35 | ug/L   | 94       |
| 115) 1,3,5-trichlorobenzene    | 7.936 | 180  | 20935    | 8.11 | ug/L   | 97       |
| 116) 1,2,4-trichlorobenzene    | 8.366 | 180  | 17197    | 7.66 | ug/L   | 91       |
| 117) hexachlorobutadiene       | 8.350 | 225  | 7829     | 8.01 | ug/L   | 92       |
| 118) naphthalene               | 8.576 | 128  | 68907    | 7.62 | ug/L   | 99       |
| 119) 1,2,3-trichlorobenzene    | 8.697 | 180  | 17575    | 7.94 | ug/L   | 98       |
| 120) hexachloroethane          | 7.339 | 119  | 9924     | 7.69 | ug/L   | 97       |
| 121) benzyl chloride           | 7.228 | 126  | 6872     | 6.86 | ug/L   | 97       |
| 122) 2-methylnaphthalene       | 9.242 | 142  | 15824    | 3.56 | ug/L   | 94       |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

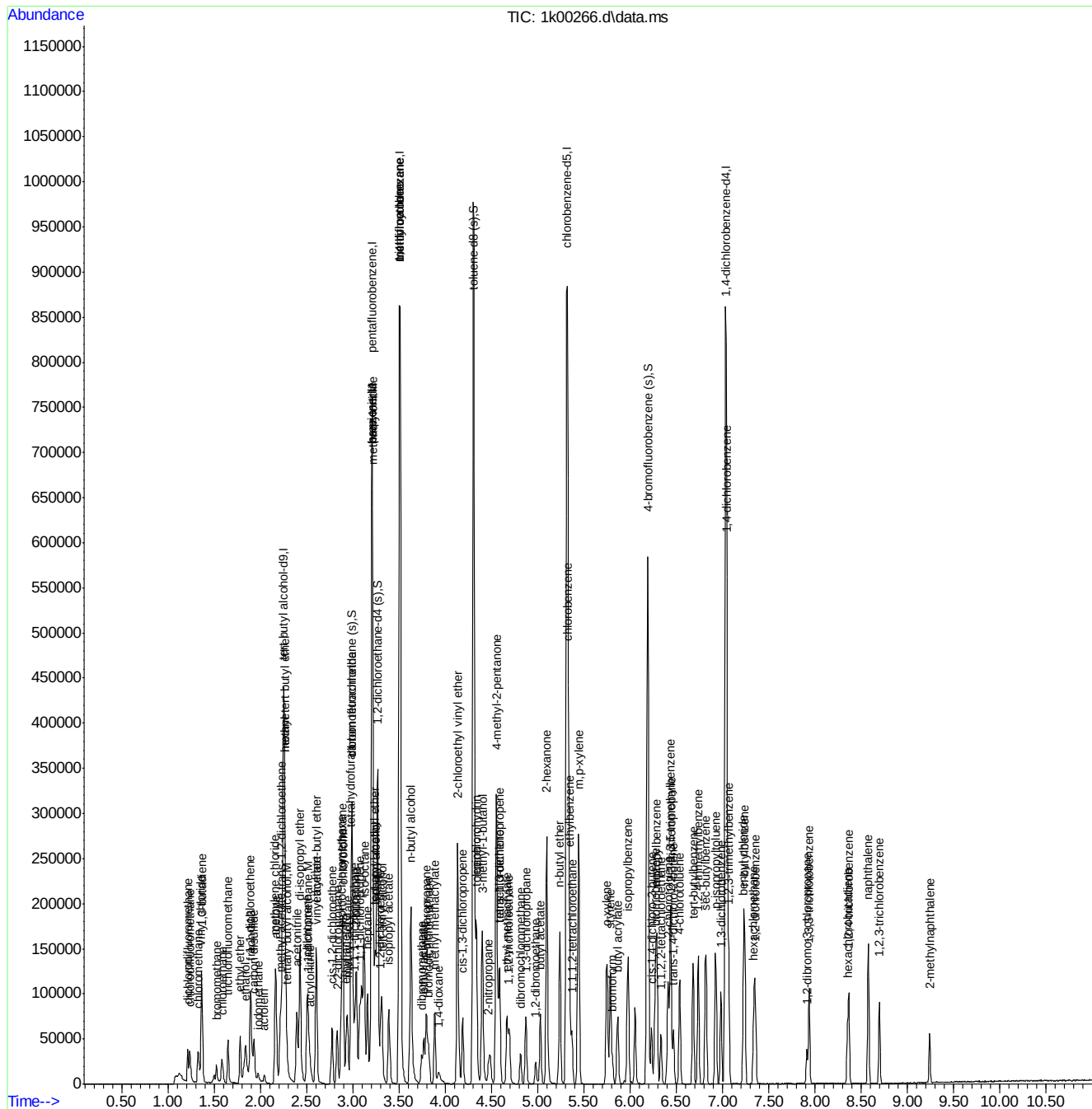
Quantitation Report (QT Reviewed)

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Data Path : C:\msdchem\1\data\vk11\
Data File : 1k00266.d
Acq On    : 16 Oct 2022    8:50 pm
Operator  : PrashanS
Sample    : IC11-8
Misc      : MS62894,V1K0011,5,,,,1
ALS Vial  : 7    Sample Multiplier: 1

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Quant Time: Oct 17 14:57:39 2022  
Quant Method : C:\msdchem\1\methods\M1K11.M  
Quant Title : SW-846 Method 8260D, column Rtx-VMS 20m x 0.18 id x 1.0 um  
QLast Update : Mon Oct 17 14:53:51 2022  
Response via : Initial Calibration



M1K11.M Thu Oct 20 12:16:58 2022 RPT1

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## 7.6.6



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\vk11\  
 Data File : 1k00268.d  
 Acq On : 16 Oct 2022 9:23 pm  
 Operator : PrashanS  
 Sample : IC11-20  
 Misc : MS62894,V1K0011,5,,,1  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 17 14:57:41 2022

Quant Method : C:\msdchem\1\methods\M1K11.M

Quant Title : SW-846 Method 8260D, column Rtx-VMS 20m x 0.18 id x 1.0 um

QLast Update : Mon Oct 17 14:53:51 2022

Response via : Initial Calibration

| Compound                   | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| Internal Standards         |       |      |          |        |       |          |
| 1) tert butyl alcohol-d9   | 2.248 | 65   | 314567   | 500.00 | ug/L  | 0.00     |
| 5) pentafluorobenzene      | 3.207 | 168  | 226384   | 50.00  | ug/L  | 0.00     |
| 50) 1,4-difluorobenzene    | 3.506 | 114  | 374295   | 50.00  | ug/L  | 0.00     |
| 72) chlorobenzene-d5       | 5.315 | 117  | 332600   | 50.00  | ug/L  | 0.00     |
| 95) 1,4-dichlorobenzene-d4 | 7.040 | 152  | 153809   | 50.00  | ug/L  | 0.00     |

## System Monitoring Compounds

|                               |        |       |          |          |      |         |
|-------------------------------|--------|-------|----------|----------|------|---------|
| 42) dibromofluoromethane (s)  | 2.987  | 113   | 107558   | 51.11    | ug/L | 0.00    |
| Spiked Amount                 | 50.000 | Range | 75 - 127 | Recovery | =    | 102.22% |
| 51) 1,2-dichloroethane-d4 (s) | 3.265  | 65    | 165880   | 53.82    | ug/L | 0.00    |
| Spiked Amount                 | 50.000 | Range | 75 - 130 | Recovery | =    | 107.64% |
| 73) toluene-d8 (s)            | 4.303  | 98    | 482882   | 50.12    | ug/L | 0.00    |
| Spiked Amount                 | 50.000 | Range | 80 - 120 | Recovery | =    | 100.24% |
| 96) 4-bromofluorobenzene (s)  | 6.185  | 95    | 172713   | 50.36    | ug/L | 0.00    |
| Spiked Amount                 | 50.000 | Range | 79 - 127 | Recovery | =    | 100.72% |

## Target Compounds

|                              |       |     |        |         |      | Qvalue |
|------------------------------|-------|-----|--------|---------|------|--------|
| 2) ethanol                   | 1.839 | 45  | 160555 | 2021.27 | ug/L | 96     |
| 3) tertiary butyl alcohol    | 2.279 | 59  | 82520  | 95.26   | ug/L | 100    |
| 4) 1,4-dioxane               | 3.931 | 88  | 22058  | 490.90  | ug/L | 93     |
| 6) chlorodifluoromethane     | 1.231 | 51  | 88259  | 19.42   | ug/L | 91     |
| 7) dichlorodifluoromethane   | 1.210 | 85  | 59551  | 18.98   | ug/L | 99     |
| 8) chloromethane             | 1.320 | 50  | 87635  | 19.36   | ug/L | 96     |
| 9) vinyl chloride            | 1.356 | 62  | 73502  | 19.09   | ug/L | 98     |
| 10) 1,3-butadiene            | 1.362 | 39  | 55513  | 19.52   | ug/L | 99     |
| 11) bromomethane             | 1.519 | 96  | 17691  | 17.97   | ug/L | # 95   |
| 12) chloroethane             | 1.582 | 64  | 38851  | 19.98   | ug/L | 99     |
| 13) trichlorofluoromethane   | 1.645 | 101 | 57324  | 18.82   | ug/L | 98     |
| 14) ethyl ether              | 1.781 | 74  | 27121  | 19.59   | ug/L | 89     |
| 15) acrolein                 | 2.038 | 56  | 17181  | 17.55   | ug/L | 100    |
| 16) freon 113                | 1.896 | 151 | 23697  | 18.04   | ug/L | 85     |
| 17) 1,1-dichloroethene       | 1.891 | 61  | 72515  | 18.72   | ug/L | 98     |
| 18) acetone                  | 2.164 | 58  | 61300  | 79.28   | ug/L | 93     |
| 19) acetonitrile             | 2.389 | 41  | 235803 | 201.08  | ug/L | 96     |
| 20) iodomethane              | 1.975 | 142 | 24176  | 15.71   | ug/L | 98     |
| 21) carbon disulfide         | 1.928 | 76  | 108249 | 19.32   | ug/L | 97     |
| 22) methylene chloride       | 2.153 | 84  | 37814  | 18.24   | ug/L | 92     |
| 23) methyl acetate           | 2.211 | 74  | 18888  | 20.59   | ug/L | # 64   |
| 24) methyl tert butyl ether  | 2.263 | 73  | 131522 | 18.63   | ug/L | 80     |
| 25) trans-1,2-dichloroethene | 2.227 | 61  | 76105  | 19.62   | ug/L | 97     |
| 26) hexane                   | 2.258 | 57  | 151869 | 19.28   | ug/L | 98     |
| 27) di-isopropyl ether       | 2.426 | 45  | 247248 | 19.62   | ug/L | 97     |
| 28) ethyl tert-butyl ether   | 2.599 | 59  | 191108 | 19.30   | ug/L | 99     |
| 29) 2-butanone               | 3.039 | 72  | 53062  | 80.68   | ug/L | # 90   |
| 30) 1,1-dichloroethane       | 2.515 | 63  | 96441  | 19.63   | ug/L | 96     |
| 31) chloroprene              | 2.505 | 53  | 107380 | 20.39   | ug/L | 99     |
| 32) acrylonitrile            | 2.536 | 52  | 36818  | 18.79   | ug/L | 97     |
| 33) vinyl acetate            | 2.604 | 86  | 7177   | 17.26   | ug/L | # 70   |
| 34) ethyl acetate            | 2.929 | 70  | 8206   | 18.09   | ug/L | 92     |



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\vk11\  
 Data File : 1k00268.d  
 Acq On : 16 Oct 2022 9:23 pm  
 Operator : PrashanS  
 Sample : IC11-20  
 Misc : MS62894,V1K0011,5,,,1  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 17 14:57:41 2022

Quant Method : C:\msdchem\1\methods\M1K11.M

Quant Title : SW-846 Method 8260D, column Rtx-VMS 20m x 0.18 id x 1.0 um

QLast Update : Mon Oct 17 14:53:51 2022

Response via : Initial Calibration

| Compound                      | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|--------|--------|----------|
| 35) 2,2-dichloropropane       | 2.830 | 77   | 57393    | 18.65  | ug/L   | 99       |
| 36) cis-1,2-dichloroethene    | 2.772 | 96   | 39214    | 19.11  | ug/L   | 94       |
| 37) propionitrile             | 3.197 | 54   | 200511   | 191.10 | ug/L   | 96       |
| 38) methyl acrylate           | 2.945 | 85   | 13770    | 20.07  | ug/L   | 99       |
| 39) bromochloromethane        | 2.872 | 128  | 16589    | 20.94  | ug/L   | 94       |
| 40) tetrahydrofuran           | 2.982 | 71   | 10331    | 18.37  | ug/L   | 94       |
| 41) chloroform                | 2.893 | 47   | 30835    | 20.34  | ug/L   | 97       |
| 43) methacrylonitrile         | 3.207 | 67   | 32710    | 19.60  | ug/L   | 97       |
| 44) 1,1,1-trichloroethane     | 3.013 | 97   | 58770    | 19.15  | ug/L   | 98       |
| 45) cyclohexane               | 2.887 | 84   | 71409    | 18.99  | ug/L   | 97       |
| 46) 1,1-dichloropropene       | 3.071 | 75   | 59962    | 18.89  | ug/L   | 98       |
| 47) carbon tetrachloride      | 2.982 | 117  | 47766    | 17.89  | ug/L   | 92       |
| 48) isobutyl alcohol          | 3.244 | 43   | 134894   | 189.10 | ug/L   | 94       |
| 49) tert-amyl alcohol         | 3.312 | 55   | 33593    | 96.73  | ug/L   | 92       |
| 52) iso-octane                | 3.118 | 57   | 262179   | 19.36  | ug/L   | 97       |
| 53) benzene                   | 3.202 | 78   | 177660   | 19.42  | ug/L   | 97       |
| 54) tert-amyl methyl ether    | 3.239 | 73   | 142258   | 19.53  | ug/L   | 97       |
| 55) heptane                   | 3.155 | 57   | 41616    | 19.30  | ug/L   | 99       |
| 56) isopropyl acetate         | 3.391 | 87   | 13455    | 18.36  | ug/L # | 80       |
| 57) 1,2-dichloroethane        | 3.302 | 62   | 67568    | 19.97  | ug/L   | 95       |
| 58) n-butyl alcohol           | 3.627 | 56   | 236272   | 961.54 | ug/L   | 97       |
| 59) ethyl acrylate            | 3.763 | 55   | 115197   | 18.99  | ug/L   | 99       |
| 60) trichloroethene           | 3.506 | 130  | 36392    | 19.36  | ug/L   | 95       |
| 61) 2-nitropropane            | 4.471 | 41   | 28587    | 18.28  | ug/L   | 87       |
| 62) 2-chloroethyl vinyl ether | 4.135 | 63   | 209140   | 96.48  | ug/L   | 99       |
| 63) methyl methacrylate       | 3.884 | 100  | 16066    | 19.67  | ug/L   | 98       |
| 64) 1,2-dichloropropane       | 3.794 | 63   | 55534    | 19.34  | ug/L   | 96       |
| 65) methylcyclohexane         | 3.511 | 55   | 93658    | 19.80  | ug/L   | 99       |
| 66) dibromomethane            | 3.742 | 93   | 24395    | 19.85  | ug/L   | 96       |
| 67) bromodichloromethane      | 3.821 | 83   | 52867    | 19.27  | ug/L   | 98       |
| 68) epichlorohydrin           | 4.329 | 57   | 61434    | 94.01  | ug/L   | 96       |
| 69) cis-1,3-dichloropropene   | 4.188 | 75   | 71660    | 19.07  | ug/L   | 97       |
| 70) 4-methyl-2-pentanone      | 4.555 | 58   | 173080   | 77.80  | ug/L   | 99       |
| 71) 3-methyl-1-butanol        | 4.397 | 70   | 66739    | 380.43 | ug/L   | 99       |
| 74) toluene                   | 4.340 | 92   | 102051   | 18.93  | ug/L   | 99       |
| 75) ethyl methacrylate        | 4.670 | 69   | 68494    | 18.76  | ug/L   | 97       |
| 76) trans-1,3-dichloropropene | 4.586 | 75   | 65951    | 19.09  | ug/L   | 99       |
| 77) 1,1,2-trichloroethane     | 4.691 | 83   | 30993    | 19.64  | ug/L   | 94       |
| 78) tetrachloroethene         | 4.586 | 166  | 32829    | 18.81  | ug/L   | 97       |
| 79) 2-hexanone                | 5.100 | 58   | 197951   | 78.30  | ug/L   | 100      |
| 80) 1,3-dichloropropane       | 4.875 | 76   | 72826    | 19.17  | ug/L   | 98       |
| 81) butyl acetate             | 5.027 | 56   | 54376    | 17.77  | ug/L   | 96       |
| 82) dibromochloromethane      | 4.812 | 129  | 34615    | 18.75  | ug/L   | 98       |
| 83) 1,2-dibromoethane         | 4.979 | 107  | 35335    | 18.76  | ug/L   | 100      |
| 84) n-butyl ether             | 5.236 | 57   | 298581   | 19.34  | ug/L   | 99       |
| 85) chlorobenzene             | 5.331 | 112  | 96803    | 19.06  | ug/L   | 99       |
| 86) 1,1,1,2-tetrachloroethane | 5.367 | 131  | 31792    | 18.80  | ug/L   | 97       |
| 87) ethylbenzene              | 5.341 | 91   | 196442   | 19.15  | ug/L   | 99       |
| 88) m,p-xylene                | 5.441 | 106  | 141501   | 39.01  | ug/L   | 99       |
| 89) o-xylene                  | 5.750 | 106  | 69306    | 19.12  | ug/L   | 99       |

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\vk11\  
 Data File : 1k00268.d  
 Acq On : 16 Oct 2022 9:23 pm  
 Operator : PrashanS  
 Sample : IC11-20  
 Misc : MS62894,V1K0011,5,,,1  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 17 14:57:41 2022

Quant Method : C:\msdchem\1\methods\M1K11.M

Quant Title : SW-846 Method 8260D, column Rtx-VMS 20m x 0.18 id x 1.0 um

QLast Update : Mon Oct 17 14:53:51 2022

Response via : Initial Calibration

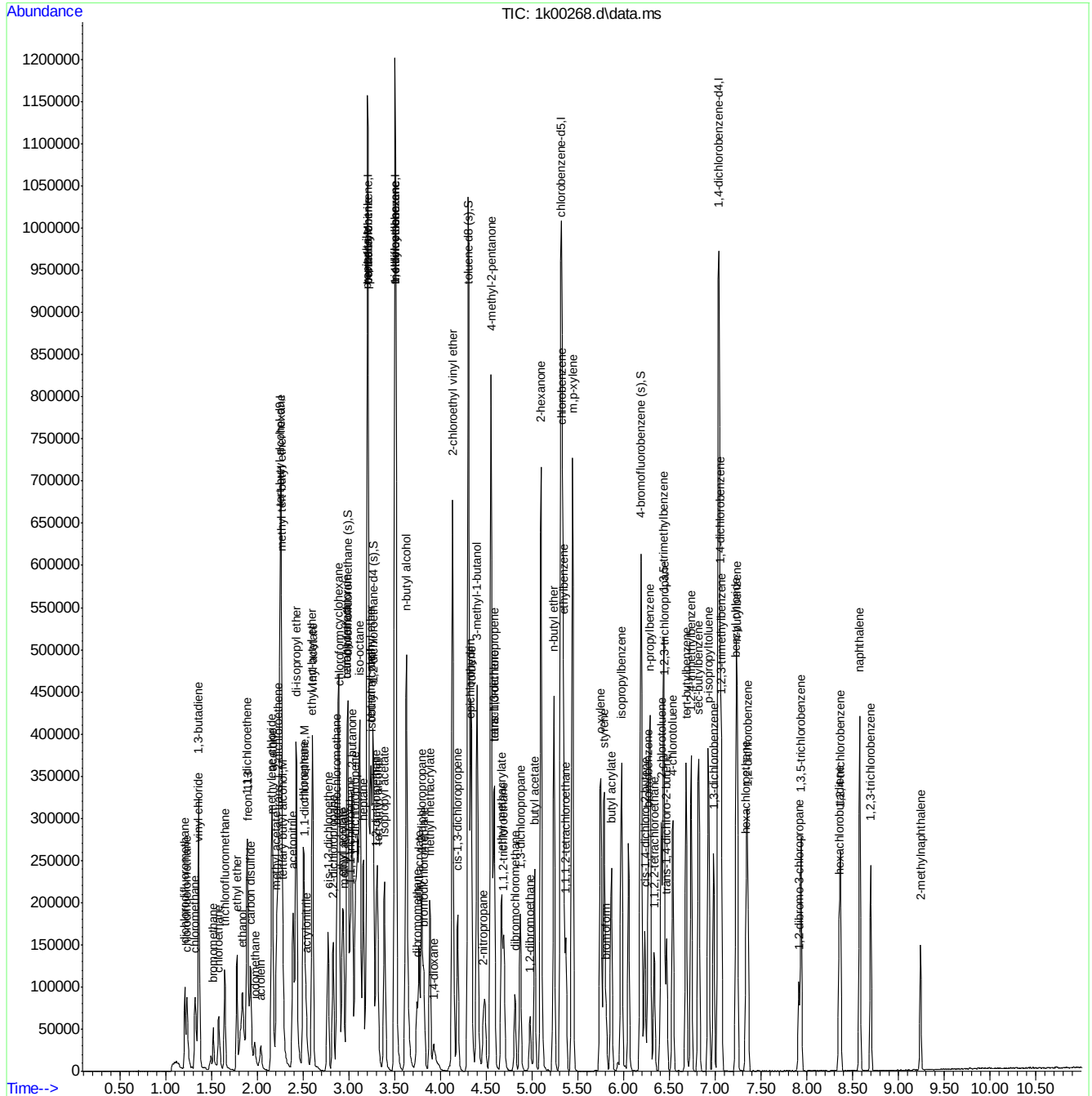
| Compound                       | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-------|-------|----------|
| 90) styrene                    | 5.787 | 104  | 114628   | 18.76 | ug/L  | 100      |
| 91) bromoform                  | 5.808 | 173  | 24570    | 17.69 | ug/L  | 98       |
| 92) butyl acrylate             | 5.865 | 55   | 126944   | 17.70 | ug/L  | 98       |
| 93) isopropylbenzene           | 5.976 | 105  | 186905   | 19.10 | ug/L  | 99       |
| 94) cis-1,4-dichloro-2-butene  | 6.232 | 88   | 26467    | 18.16 | ug/L  | 95       |
| 97) bromobenzene               | 6.269 | 156  | 36712    | 19.33 | ug/L  | 93       |
| 98) 1,1,2,2-tetrachloroethane  | 6.332 | 83   | 59337    | 19.47 | ug/L  | 97       |
| 99) trans-1,4-dichloro-2-b...  | 6.468 | 53   | 34042    | 19.37 | ug/L  | 91       |
| 100) 1,2,3-trichloropropane    | 6.442 | 110  | 17415    | 18.23 | ug/L  | 97       |
| 101) n-propylbenzene           | 6.285 | 91   | 235240   | 19.27 | ug/L  | 100      |
| 102) 2-chlorotoluene           | 6.411 | 126  | 38448    | 19.64 | ug/L  | 98       |
| 103) 4-chlorotoluene           | 6.537 | 91   | 142351   | 19.59 | ug/L  | 99       |
| 104) 1,3,5-trimethylbenzene    | 6.437 | 105  | 156171   | 19.44 | ug/L  | 99       |
| 105) tert-butylbenzene         | 6.683 | 119  | 124355   | 19.13 | ug/L  | 99       |
| 106) 1,2,4-trimethylbenzene    | 6.736 | 105  | 160209   | 19.22 | ug/L  | 98       |
| 107) sec-butylbenzene          | 6.820 | 105  | 201041   | 18.98 | ug/L  | 99       |
| 108) 1,3-dichlorobenzene       | 6.982 | 146  | 73451    | 18.80 | ug/L  | 98       |
| 109) p-isopropyltoluene        | 6.925 | 119  | 155630   | 19.07 | ug/L  | 99       |
| 110) 1,4-dichlorobenzene       | 7.050 | 146  | 73037    | 18.85 | ug/L  | 99       |
| 111) 1,2-dichlorobenzene       | 7.354 | 146  | 70493    | 18.73 | ug/L  | 100      |
| 112) 1,2,3-trimethylbenzene    | 7.066 | 105  | 161275   | 19.14 | ug/L  | 99       |
| 113) n-butylbenzene            | 7.239 | 92   | 98241    | 18.76 | ug/L  | 98       |
| 114) 1,2-dibromo-3-chloropr... | 7.915 | 157  | 17146    | 18.62 | ug/L  | 89       |
| 115) 1,3,5-trichlorobenzene    | 7.936 | 180  | 54006    | 19.48 | ug/L  | 95       |
| 116) 1,2,4-trichlorobenzene    | 8.366 | 180  | 47139    | 19.53 | ug/L  | 99       |
| 117) hexachlorobutadiene       | 8.351 | 225  | 20347    | 19.37 | ug/L  | 95       |
| 118) naphthalene               | 8.576 | 128  | 184592   | 19.01 | ug/L  | 99       |
| 119) 1,2,3-trichlorobenzene    | 8.697 | 180  | 46519    | 19.57 | ug/L  | 97       |
| 120) hexachloroethane          | 7.339 | 119  | 25879    | 18.66 | ug/L  | 96       |
| 121) benzyl chloride           | 7.229 | 126  | 20173    | 18.74 | ug/L  | 95       |
| 122) 2-methylnaphthalene       | 9.242 | 142  | 43917    | 9.20  | ug/L  | 94       |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

```
Data Path : C:\msdchem\1\data\vk11\  
Data File : 1k00268.d  
Acq On    : 16 Oct 2022    9:23 pm  
Operator  : PrashanS  
Sample    : IC11-20  
Misc      : MS62894,V1K0011,5,,,,1  
ALS Vial  : 8    Sample Multiplier: 1
```

Quant Time: Oct 17 14:57:41 2022  
Quant Method : C:\msdchem\1\methods\M1K11.M  
Quant Title : SW-846 Method 8260D, column Rtx-VMS 20m x 0.18 id x 1.0 um  
QLast Update : Mon Oct 17 14:53:51 2022  
Response via : Initial Calibration



M1K11.M Thu Oct 20 12:17:00 2022 RPT1

Page: 4

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\vk11\  
 Data File : 1k00270.d  
 Acq On : 16 Oct 2022 9:55 pm  
 Operator : PrashanS  
 Sample : ICC11-50  
 Misc : MS62894,V1K0011,5,,,1  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 17 14:57:43 2022

Quant Method : C:\msdchem\1\methods\M1K11.M

Quant Title : SW-846 Method 8260D, column Rtx-VMS 20m x 0.18 id x 1.0 um

QLast Update : Mon Oct 17 14:53:51 2022

Response via : Initial Calibration

| Compound                      | R.T.           | QIon | Response   | Conc    | Units | Dev(Min) |
|-------------------------------|----------------|------|------------|---------|-------|----------|
| Internal Standards            |                |      |            |         |       |          |
| 1) tert butyl alcohol-d9      | 2.248          | 65   | 324619     | 500.00  | ug/L  | 0.00     |
| 5) pentafluorobenzene         | 3.207          | 168  | 235292     | 50.00   | ug/L  | 0.00     |
| 50) 1,4-difluorobenzene       | 3.506          | 114  | 395658     | 50.00   | ug/L  | 0.00     |
| 72) chlorobenzene-d5          | 5.315          | 117  | 352356     | 50.00   | ug/L  | 0.00     |
| 95) 1,4-dichlorobenzene-d4    | 7.035          | 152  | 163222     | 50.00   | ug/L  | 0.00     |
| System Monitoring Compounds   |                |      |            |         |       |          |
| 42) dibromofluoromethane (s)  | 2.987          | 113  | 109370     | 50.00   | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 75 - 127 |      | Recovery = | 100.00% |       |          |
| 51) 1,2-dichloroethane-d4 (s) | 3.265          | 65   | 173783     | 53.34   | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 75 - 130 |      | Recovery = | 106.68% |       |          |
| 73) toluene-d8 (s)            | 4.303          | 98   | 510355     | 50.00   | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 80 - 120 |      | Recovery = | 100.00% |       |          |
| 96) 4-bromofluorobenzene (s)  | 6.191          | 95   | 181969     | 50.00   | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 79 - 127 |      | Recovery = | 100.00% |       |          |
| Target Compounds              |                |      |            |         |       |          |
| 2) ethanol                    | 1.839          | 45   | 411567     | 5020.87 | ug/L  | 100      |
| 3) tertiary butyl alcohol     | 2.279          | 59   | 223229     | 249.71  | ug/L  | 100      |
| 4) 1,4-dioxane                | 3.931          | 88   | 57962      | 1250.00 | ug/L  | 100      |
| 6) chlorodifluoromethane      | 1.231          | 51   | 236202     | 50.00   | ug/L  | 100      |
| 7) dichlorodifluoromethane    | 1.210          | 85   | 163076     | 50.00   | ug/L  | 100      |
| 8) chloromethane              | 1.320          | 50   | 235184     | 50.00   | ug/L  | 100      |
| 9) vinyl chloride             | 1.357          | 62   | 200123     | 50.00   | ug/L  | 100      |
| 10) 1,3-butadiene             | 1.362          | 39   | 147757     | 50.00   | ug/L  | 100      |
| 11) bromomethane              | 1.519          | 96   | 51154      | 50.00   | ug/L  | # 100    |
| 12) chloroethane              | 1.577          | 64   | 101055     | 50.00   | ug/L  | 100      |
| 13) trichlorofluoromethane    | 1.645          | 101  | 158306     | 50.00   | ug/L  | 100      |
| 14) ethyl ether               | 1.776          | 74   | 71960      | 50.00   | ug/L  | 100      |
| 15) acrolein                  | 2.038          | 56   | 50877      | 50.00   | ug/L  | 100      |
| 16) freon 113                 | 1.897          | 151  | 68250      | 50.00   | ug/L  | 100      |
| 17) 1,1-dichloroethene        | 1.886          | 61   | 201351     | 50.00   | ug/L  | 100      |
| 18) acetone                   | 2.164          | 58   | 160727     | 200.00  | ug/L  | 100      |
| 19) acetonitrile              | 2.389          | 41   | 609423     | 500.00  | ug/L  | 100      |
| 20) iodomethane               | 1.970          | 142  | 79991      | 50.00   | ug/L  | 100      |
| 21) carbon disulfide          | 1.923          | 76   | 291187     | 50.00   | ug/L  | 100      |
| 22) methylene chloride        | 2.153          | 84   | 107764     | 50.00   | ug/L  | 100      |
| 23) methyl acetate            | 2.211          | 74   | 47676      | 50.00   | ug/L  | 100      |
| 24) methyl tert butyl ether   | 2.264          | 73   | 366787     | 50.00   | ug/L  | 100      |
| 25) trans-1,2-dichloroethene  | 2.227          | 61   | 201610     | 50.00   | ug/L  | 100      |
| 26) hexane                    | 2.258          | 57   | 409256     | 50.00   | ug/L  | 100      |
| 27) di-isopropyl ether        | 2.426          | 45   | 655026     | 50.00   | ug/L  | 100      |
| 28) ethyl tert-butyl ether    | 2.599          | 59   | 514688     | 50.00   | ug/L  | 100      |
| 29) 2-butanone                | 3.040          | 72   | 136711     | 200.00  | ug/L  | 100      |
| 30) 1,1-dichloroethane        | 2.515          | 63   | 255249     | 50.00   | ug/L  | 100      |
| 31) chloroprene               | 2.505          | 53   | 273720     | 50.00   | ug/L  | 100      |
| 32) acrylonitrile             | 2.536          | 52   | 101840     | 50.00   | ug/L  | 100      |
| 33) vinyl acetate             | 2.610          | 86   | 21607      | 50.00   | ug/L  | 100      |
| 34) ethyl acetate             | 2.929          | 70   | 23574      | 50.00   | ug/L  | 100      |

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\vk11\  
 Data File : 1k00270.d  
 Acq On : 16 Oct 2022 9:55 pm  
 Operator : PrashanS  
 Sample : ICC11-50  
 Misc : MS62894,V1K0011,5,,,1  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 17 14:57:43 2022

Quant Method : C:\msdchem\1\methods\M1K11.M

Quant Title : SW-846 Method 8260D, column Rtx-VMS 20m x 0.18 id x 1.0 um

QLast Update : Mon Oct 17 14:53:51 2022

Response via : Initial Calibration

| Compound                      | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|-------|------|----------|---------|-------|----------|
| 35) 2,2-dichloropropane       | 2.830 | 77   | 159911   | 50.00   | ug/L  | 100      |
| 36) cis-1,2-dichloroethene    | 2.772 | 96   | 106654   | 50.00   | ug/L  | 100      |
| 37) propionitrile             | 3.202 | 54   | 545254   | 500.00  | ug/L  | 100      |
| 38) methyl acrylate           | 2.945 | 85   | 35646    | 50.00   | ug/L  | 100      |
| 39) bromochloromethane        | 2.872 | 128  | 41174    | 50.00   | ug/L  | 100      |
| 40) tetrahydrofuran           | 2.982 | 71   | 29220    | 50.00   | ug/L  | 100      |
| 41) chloroform                | 2.893 | 47   | 78766    | 50.00   | ug/L  | 100      |
| 43) methacrylonitrile         | 3.207 | 67   | 86729    | 50.00   | ug/L  | 100      |
| 44) 1,1,1-trichloroethane     | 3.013 | 97   | 159471   | 50.00   | ug/L  | 100      |
| 45) cyclohexane               | 2.887 | 84   | 195413   | 50.00   | ug/L  | 100      |
| 46) 1,1-dichloropropene       | 3.071 | 75   | 164982   | 50.00   | ug/L  | 100      |
| 47) carbon tetrachloride      | 2.982 | 117  | 134022   | 48.29   | ug/L  | 100      |
| 48) isobutyl alcohol          | 3.244 | 43   | 370702   | 500.00  | ug/L  | 100      |
| 49) tert-amyl alcohol         | 3.312 | 55   | 90242    | 250.00  | ug/L  | 100      |
| 52) iso-octane                | 3.118 | 57   | 715660   | 50.00   | ug/L  | 100      |
| 53) benzene                   | 3.202 | 78   | 483523   | 50.00   | ug/L  | 100      |
| 54) tert-amyl methyl ether    | 3.239 | 73   | 385050   | 50.00   | ug/L  | 100      |
| 55) heptane                   | 3.155 | 57   | 113135   | 49.63   | ug/L  | 100      |
| 56) isopropyl acetate         | 3.391 | 87   | 38724    | 50.00   | ug/L  | 100      |
| 57) 1,2-dichloroethane        | 3.302 | 62   | 178854   | 50.00   | ug/L  | 100      |
| 58) n-butyl alcohol           | 3.627 | 56   | 649368   | 2500.00 | ug/L  | 100      |
| 59) ethyl acrylate            | 3.763 | 55   | 320591   | 49.99   | ug/L  | 100      |
| 60) trichloroethene           | 3.506 | 130  | 99344    | 50.00   | ug/L  | 100      |
| 61) 2-nitropropane            | 4.471 | 41   | 82637    | 50.00   | ug/L  | 100      |
| 62) 2-chloroethyl vinyl ether | 4.135 | 63   | 572841   | 250.00  | ug/L  | 100      |
| 63) methyl methacrylate       | 3.884 | 100  | 43180    | 50.00   | ug/L  | 100      |
| 64) 1,2-dichloropropane       | 3.795 | 63   | 151797   | 50.00   | ug/L  | 100      |
| 65) methylcyclohexane         | 3.511 | 55   | 249990   | 50.00   | ug/L  | 100      |
| 66) dibromomethane            | 3.742 | 93   | 64963    | 50.00   | ug/L  | 100      |
| 67) bromodichloromethane      | 3.821 | 83   | 145007   | 50.00   | ug/L  | 100      |
| 68) epichlorohydrin           | 4.335 | 57   | 172694   | 250.00  | ug/L  | 100      |
| 69) cis-1,3-dichloropropene   | 4.188 | 75   | 198633   | 50.00   | ug/L  | 100      |
| 70) 4-methyl-2-pentanone      | 4.555 | 58   | 470315   | 200.00  | ug/L  | 100      |
| 71) 3-methyl-1-butanol        | 4.403 | 70   | 185445   | 1000.00 | ug/L  | 100      |
| 74) toluene                   | 4.335 | 92   | 285491   | 50.00   | ug/L  | 100      |
| 75) ethyl methacrylate        | 4.670 | 69   | 193414   | 50.00   | ug/L  | 100      |
| 76) trans-1,3-dichloropropene | 4.586 | 75   | 183001   | 50.00   | ug/L  | 100      |
| 77) 1,1,2-trichloroethane     | 4.691 | 83   | 83597    | 50.00   | ug/L  | 100      |
| 78) tetrachloroethene         | 4.586 | 166  | 92434    | 50.00   | ug/L  | 100      |
| 79) 2-hexanone                | 5.100 | 58   | 535659   | 200.00  | ug/L  | 100      |
| 80) 1,3-dichloropropane       | 4.875 | 76   | 201201   | 50.00   | ug/L  | 100      |
| 81) butyl acetate             | 5.027 | 56   | 162111   | 50.00   | ug/L  | 100      |
| 82) dibromochloromethane      | 4.812 | 129  | 97815    | 50.00   | ug/L  | 100      |
| 83) 1,2-dibromoethane         | 4.979 | 107  | 99764    | 50.00   | ug/L  | 100      |
| 84) n-butyl ether             | 5.236 | 57   | 817596   | 50.00   | ug/L  | 100      |
| 85) chlorobenzene             | 5.331 | 112  | 269033   | 50.00   | ug/L  | 100      |
| 86) 1,1,1,2-tetrachloroethane | 5.367 | 131  | 89571    | 50.00   | ug/L  | 100      |
| 87) ethylbenzene              | 5.341 | 91   | 543322   | 50.00   | ug/L  | 100      |
| 88) m,p-xylene                | 5.441 | 106  | 384239   | 100.00  | ug/L  | 100      |
| 89) o-xylene                  | 5.750 | 106  | 192019   | 50.00   | ug/L  | 100      |

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\vk11\  
 Data File : 1k00270.d  
 Acq On : 16 Oct 2022 9:55 pm  
 Operator : PrashanS  
 Sample : ICC11-50  
 Misc : MS62894,V1K0011,5,,,1  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 17 14:57:43 2022  
 Quant Method : C:\msdchem\1\methods\M1K11.M  
 Quant Title : SW-846 Method 8260D, column Rtx-VMS 20m x 0.18 id x 1.0 um  
 QLast Update : Mon Oct 17 14:53:51 2022  
 Response via : Initial Calibration

| Compound                       | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-------|-------|----------|
| 90) styrene                    | 5.787 | 104  | 323582   | 50.00 | ug/L  | 100      |
| 91) bromoform                  | 5.808 | 173  | 73552    | 50.00 | ug/L  | 100      |
| 92) butyl acrylate             | 5.866 | 55   | 379893   | 50.00 | ug/L  | 100      |
| 93) isopropylbenzene           | 5.976 | 105  | 518473   | 50.00 | ug/L  | 100      |
| 94) cis-1,4-dichloro-2-butene  | 6.233 | 88   | 77185    | 50.00 | ug/L  | 100      |
| 97) bromobenzene               | 6.274 | 156  | 100750   | 50.00 | ug/L  | 100      |
| 98) 1,1,2,2-tetrachloroethane  | 6.332 | 83   | 161697   | 50.00 | ug/L  | 100      |
| 99) trans-1,4-dichloro-2-b...  | 6.468 | 53   | 93264    | 50.00 | ug/L  | 100      |
| 100) 1,2,3-trichloropropane    | 6.442 | 110  | 50686    | 50.00 | ug/L  | 100      |
| 101) n-propylbenzene           | 6.285 | 91   | 647876   | 50.00 | ug/L  | 100      |
| 102) 2-chlorotoluene           | 6.411 | 126  | 103854   | 50.00 | ug/L  | 100      |
| 103) 4-chlorotoluene           | 6.537 | 91   | 385559   | 50.00 | ug/L  | 100      |
| 104) 1,3,5-trimethylbenzene    | 6.437 | 105  | 426237   | 50.00 | ug/L  | 100      |
| 105) tert-butylbenzene         | 6.683 | 119  | 344981   | 50.00 | ug/L  | 100      |
| 106) 1,2,4-trimethylbenzene    | 6.736 | 105  | 442267   | 50.00 | ug/L  | 100      |
| 107) sec-butylbenzene          | 6.820 | 105  | 562042   | 50.00 | ug/L  | 100      |
| 108) 1,3-dichlorobenzene       | 6.982 | 146  | 207312   | 50.00 | ug/L  | 100      |
| 109) p-isopropyltoluene        | 6.930 | 119  | 432960   | 50.00 | ug/L  | 100      |
| 110) 1,4-dichlorobenzene       | 7.050 | 146  | 205591   | 50.00 | ug/L  | 100      |
| 111) 1,2-dichlorobenzene       | 7.355 | 146  | 199672   | 50.00 | ug/L  | 100      |
| 112) 1,2,3-trimethylbenzene    | 7.066 | 105  | 447077   | 50.00 | ug/L  | 100      |
| 113) n-butylbenzene            | 7.239 | 92   | 277808   | 50.00 | ug/L  | 100      |
| 114) 1,2-dibromo-3-chloropr... | 7.910 | 157  | 48851    | 50.00 | ug/L  | 100      |
| 115) 1,3,5-trichlorobenzene    | 7.937 | 180  | 147092   | 50.00 | ug/L  | 100      |
| 116) 1,2,4-trichlorobenzene    | 8.366 | 180  | 128062   | 50.00 | ug/L  | 100      |
| 117) hexachlorobutadiene       | 8.351 | 225  | 55735    | 50.00 | ug/L  | 100      |
| 118) naphthalene               | 8.581 | 128  | 515304   | 50.00 | ug/L  | 100      |
| 119) 1,2,3-trichlorobenzene    | 8.697 | 180  | 126135   | 50.00 | ug/L  | 100      |
| 120) hexachloroethane          | 7.339 | 119  | 73573    | 50.00 | ug/L  | 100      |
| 121) benzyl chloride           | 7.229 | 126  | 57104    | 50.00 | ug/L  | 100      |
| 122) 2-methylnaphthalene       | 9.242 | 142  | 126640   | 25.00 | ug/L  | 100      |

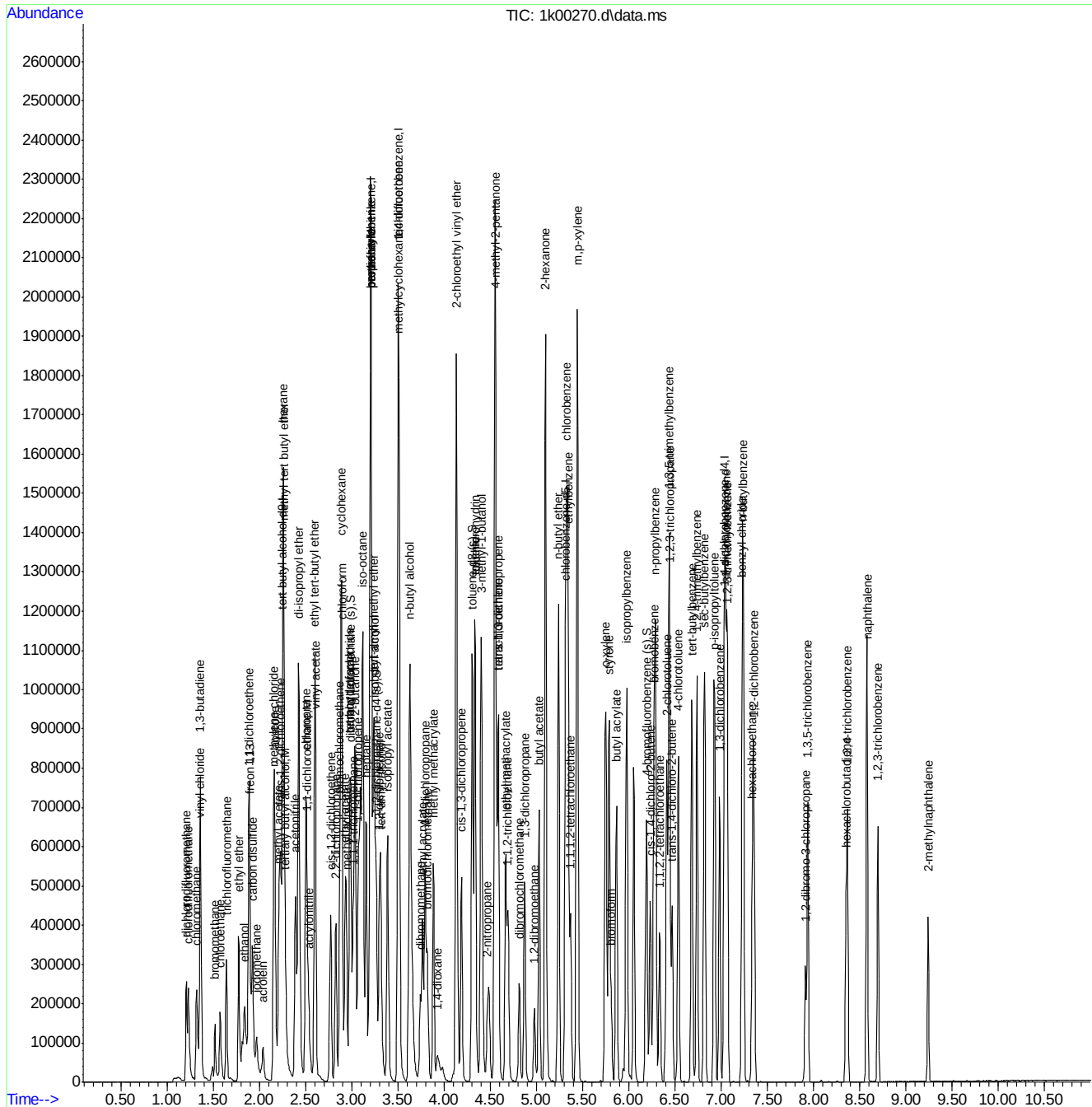
(#) = qualifier out of range (m) = manual integration (+) = signals summed



(QT Reviewed)

Data Path : C:\msdchem\1\data\vk11\  
Data File : 1k00270.d  
Acq On : 16 Oct 2022 9:55 pm  
Operator : PrashanS  
Sample : ICC11-50  
Misc : MS62894,V1K0011,5,,,1  
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 17 14:57:43 2022  
Quant Method : C:\msdchem\1\methods\M1K11.M  
Quant Title : SW-846 Method 8260D, column Rtx-VMS 20m x 0.18 id x 1.0 um  
QLast Update : Mon Oct 17 14:53:51 2022  
Response via : Initial Calibration



Page: 4



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\vk11\  
 Data File : 1k00272.d  
 Acq On : 16 Oct 2022 10:28 pm  
 Operator : PrashanS  
 Sample : IC11-100  
 Misc : MS62894,V1K0011,5,,,1  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 17 14:57:45 2022

Quant Method : C:\msdchem\1\methods\M1K11.M

Quant Title : SW-846 Method 8260D, column Rtx-VMS 20m x 0.18 id x 1.0 um

QLast Update : Mon Oct 17 14:53:51 2022

Response via : Initial Calibration

| Compound                      | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|---------|--------|----------|
| Internal Standards            |                |      |            |         |        |          |
| 1) tert butyl alcohol-d9      | 2.253          | 65   | 330767     | 500.00  | ug/L   | 0.00     |
| 5) pentafluorobenzene         | 3.207          | 168  | 220170     | 50.00   | ug/L   | 0.00     |
| 50) 1,4-difluorobenzene       | 3.506          | 114  | 367904     | 50.00   | ug/L   | 0.00     |
| 72) chlorobenzene-d5          | 5.320          | 117  | 330546     | 50.00   | ug/L   | 0.00     |
| 95) 1,4-dichlorobenzene-d4    | 7.040          | 152  | 152748     | 50.00   | ug/L   | 0.00     |
| System Monitoring Compounds   |                |      |            |         |        |          |
| 42) dibromofluoromethane (s)  | 2.987          | 113  | 102362     | 50.01   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 127 |      | Recovery = | 100.02% |        |          |
| 51) 1,2-dichloroethane-d4 (s) | 3.270          | 65   | 159237     | 52.57   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 130 |      | Recovery = | 105.14% |        |          |
| 73) toluene-d8 (s)            | 4.303          | 98   | 483272     | 50.47   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 80 - 120 |      | Recovery = | 100.94% |        |          |
| 96) 4-bromofluorobenzene (s)  | 6.191          | 95   | 176175     | 51.73   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 79 - 127 |      | Recovery = | 103.46% |        |          |
| Target Compounds              |                |      |            |         |        |          |
|                               |                |      |            |         |        | Qvalue   |
| 2) ethanol                    | 1.844          | 45   | 813234     | 9736.57 | ug/L   | 98       |
| 3) tertiary butyl alcohol     | 2.285          | 59   | 442232     | 485.50  | ug/L   | 88       |
| 4) 1,4-dioxane                | 3.936          | 88   | 115137     | 2436.88 | ug/L   | 90       |
| 6) chlorodifluoromethane      | 1.231          | 51   | 441489     | 99.87   | ug/L   | 99       |
| 7) dichlorodifluoromethane    | 1.210          | 85   | 298713     | 97.88   | ug/L   | 98       |
| 8) chloromethane              | 1.320          | 50   | 455276     | 103.44  | ug/L   | 98       |
| 9) vinyl chloride             | 1.362          | 62   | 368069     | 98.28   | ug/L   | 99       |
| 10) 1,3-butadiene             | 1.367          | 39   | 269964     | 97.63   | ug/L   | 98       |
| 11) bromomethane              | 1.519          | 96   | 97883      | 102.25  | ug/L # | 97       |
| 12) chloroethane              | 1.577          | 64   | 176698     | 93.43   | ug/L   | 96       |
| 13) trichlorofluoromethane    | 1.645          | 101  | 277869     | 93.79   | ug/L   | 100      |
| 14) ethyl ether               | 1.781          | 74   | 131694     | 97.79   | ug/L   | 93       |
| 15) acrolein                  | 2.038          | 56   | 94611      | 99.37   | ug/L   | 94       |
| 16) freon 113                 | 1.897          | 151  | 120762     | 94.55   | ug/L   | 93       |
| 17) 1,1-dichloroethene        | 1.886          | 61   | 370585     | 98.35   | ug/L   | 98       |
| 18) acetone                   | 2.169          | 58   | 302855     | 402.74  | ug/L   | 98       |
| 19) acetonitrile              | 2.395          | 41   | 1164262    | 1020.82 | ug/L   | 99       |
| 20) iodomethane               | 1.970          | 142  | 150982     | 100.86  | ug/L   | 99       |
| 21) carbon disulfide          | 1.923          | 76   | 543137     | 99.67   | ug/L   | 99       |
| 22) methylene chloride        | 2.153          | 84   | 194240     | 96.31   | ug/L   | 98       |
| 23) methyl acetate            | 2.216          | 74   | 81914      | 91.81   | ug/L # | 66       |
| 24) methyl tert butyl ether   | 2.264          | 73   | 668140     | 97.34   | ug/L   | 93       |
| 25) trans-1,2-dichloroethene  | 2.227          | 61   | 373189     | 98.91   | ug/L   | 98       |
| 26) hexane                    | 2.258          | 57   | 770071     | 100.54  | ug/L   | 98       |
| 27) di-isopropyl ether        | 2.431          | 45   | 1214026    | 99.03   | ug/L   | 99       |
| 28) ethyl tert-butyl ether    | 2.604          | 59   | 949572     | 98.58   | ug/L   | 99       |
| 29) 2-butanone                | 3.040          | 72   | 255006     | 398.68  | ug/L   | 93       |
| 30) 1,1-dichloroethane        | 2.515          | 63   | 471829     | 98.77   | ug/L   | 98       |
| 31) chloroprene               | 2.505          | 53   | 527451     | 102.97  | ug/L   | 99       |
| 32) acrylonitrile             | 2.536          | 52   | 181255     | 95.10   | ug/L   | 99       |
| 33) vinyl acetate             | 2.610          | 86   | 40423      | 99.97   | ug/L # | 83       |
| 34) ethyl acetate             | 2.929          | 70   | 42055      | 95.32   | ug/L   | 99       |



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\vk11\  
 Data File : 1k00272.d  
 Acq On : 16 Oct 2022 10:28 pm  
 Operator : PrashanS  
 Sample : IC11-100  
 Misc : MS62894,V1K0011,5,,,1  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 17 14:57:45 2022

Quant Method : C:\msdchem\1\methods\M1K11.M

Quant Title : SW-846 Method 8260D, column Rtx-VMS 20m x 0.18 id x 1.0 um

QLast Update : Mon Oct 17 14:53:51 2022

Response via : Initial Calibration

| Compound                      | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|---------|--------|----------|
| 35) 2,2-dichloropropane       | 2.830 | 77   | 294130   | 98.28   | ug/L   | 98       |
| 36) cis-1,2-dichloroethene    | 2.772 | 96   | 195372   | 97.88   | ug/L   | 96       |
| 37) propionitrile             | 3.202 | 54   | 1027762  | 1007.19 | ug/L   | 98       |
| 38) methyl acrylate           | 2.945 | 85   | 62471    | 93.65   | ug/L # | 86       |
| 39) bromochloromethane        | 2.877 | 128  | 73215    | 95.02   | ug/L   | 92       |
| 40) tetrahydrofuran           | 2.982 | 71   | 52554    | 96.10   | ug/L # | 89       |
| 41) chloroform                | 2.893 | 47   | 146703   | 99.52   | ug/L   | 97       |
| 43) methacrylonitrile         | 3.213 | 67   | 162999   | 100.42  | ug/L   | 97       |
| 44) 1,1,1-trichloroethane     | 3.019 | 97   | 296727   | 99.42   | ug/L   | 98       |
| 45) cyclohexane               | 2.887 | 84   | 356434   | 97.46   | ug/L   | 97       |
| 46) 1,1-dichloropropene       | 3.076 | 75   | 303215   | 98.20   | ug/L   | 97       |
| 47) carbon tetrachloride      | 2.982 | 117  | 244369   | 94.09   | ug/L   | 99       |
| 48) isobutyl alcohol          | 3.239 | 43   | 699149   | 1007.78 | ug/L   | 72       |
| 49) tert-amyl alcohol         | 3.317 | 55   | 176015   | 521.11  | ug/L   | 94       |
| 52) iso-octane                | 3.118 | 57   | 1340672  | 100.73  | ug/L   | 100      |
| 53) benzene                   | 3.202 | 78   | 886274   | 98.56   | ug/L   | 99       |
| 54) tert-amyl methyl ether    | 3.239 | 73   | 709225   | 99.04   | ug/L   | 99       |
| 55) heptane                   | 3.155 | 57   | 212314   | 100.17  | ug/L   | 97       |
| 56) isopropyl acetate         | 3.391 | 87   | 74933    | 104.05  | ug/L # | 74       |
| 57) 1,2-dichloroethane        | 3.302 | 62   | 326718   | 98.23   | ug/L   | 97       |
| 58) n-butyl alcohol           | 3.632 | 56   | 1318606  | 5459.46 | ug/L   | 98       |
| 59) ethyl acrylate            | 3.768 | 55   | 614341   | 103.03  | ug/L   | 99       |
| 60) trichloroethene           | 3.506 | 130  | 180686   | 97.80   | ug/L   | 97       |
| 61) 2-nitropropane            | 4.471 | 41   | 158168   | 102.92  | ug/L   | 92       |
| 62) 2-chloroethyl vinyl ether | 4.135 | 63   | 1056183  | 495.71  | ug/L   | 99       |
| 63) methyl methacrylate       | 3.889 | 100  | 79557    | 99.07   | ug/L # | 90       |
| 64) 1,2-dichloropropane       | 3.795 | 63   | 279321   | 98.95   | ug/L   | 100      |
| 65) methylcyclohexane         | 3.511 | 55   | 468350   | 100.74  | ug/L   | 99       |
| 66) dibromomethane            | 3.742 | 93   | 118934   | 98.45   | ug/L   | 97       |
| 67) bromodichloromethane      | 3.821 | 83   | 266419   | 98.79   | ug/L   | 98       |
| 68) epichlorohydrin           | 4.335 | 57   | 329995   | 513.75  | ug/L   | 100      |
| 69) cis-1,3-dichloropropene   | 4.188 | 75   | 367138   | 99.39   | ug/L   | 98       |
| 70) 4-methyl-2-pentanone      | 4.555 | 58   | 870258   | 397.99  | ug/L   | 95       |
| 71) 3-methyl-1-butanol        | 4.403 | 70   | 369205   | 2141.10 | ug/L   | 99       |
| 74) toluene                   | 4.340 | 92   | 519611   | 97.01   | ug/L   | 98       |
| 75) ethyl methacrylate        | 4.670 | 69   | 357261   | 98.45   | ug/L   | 98       |
| 76) trans-1,3-dichloropropene | 4.586 | 75   | 335656   | 97.76   | ug/L   | 99       |
| 77) 1,1,2-trichloroethane     | 4.691 | 83   | 157118   | 100.17  | ug/L   | 98       |
| 78) tetrachloroethene         | 4.586 | 166  | 168313   | 97.05   | ug/L   | 99       |
| 79) 2-hexanone                | 5.100 | 58   | 1001697  | 398.68  | ug/L   | 99       |
| 80) 1,3-dichloropropane       | 4.875 | 76   | 368235   | 97.55   | ug/L   | 98       |
| 81) butyl acetate             | 5.027 | 56   | 316963   | 104.21  | ug/L   | 98       |
| 82) dibromochloromethane      | 4.817 | 129  | 179542   | 97.83   | ug/L   | 98       |
| 83) 1,2-dibromoethane         | 4.979 | 107  | 183096   | 97.82   | ug/L   | 97       |
| 84) n-butyl ether             | 5.242 | 57   | 1528535  | 99.65   | ug/L   | 99       |
| 85) chlorobenzene             | 5.331 | 112  | 492677   | 97.61   | ug/L   | 100      |
| 86) 1,1,1,2-tetrachloroethane | 5.373 | 131  | 162189   | 96.51   | ug/L   | 98       |
| 87) ethylbenzene              | 5.341 | 91   | 998095   | 97.91   | ug/L   | 97       |
| 88) m,p-xylene                | 5.441 | 106  | 710123   | 197.01  | ug/L   | 97       |
| 89) o-xylene                  | 5.750 | 106  | 350207   | 97.21   | ug/L   | 98       |

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\vk11\  
 Data File : 1k00272.d  
 Acq On : 16 Oct 2022 10:28 pm  
 Operator : PrashanS  
 Sample : IC11-100  
 Misc : MS62894,V1K0011,5,,,1  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 17 14:57:45 2022

Quant Method : C:\msdchem\1\methods\M1K11.M

Quant Title : SW-846 Method 8260D, column Rtx-VMS 20m x 0.18 id x 1.0 um

QLast Update : Mon Oct 17 14:53:51 2022

Response via : Initial Calibration

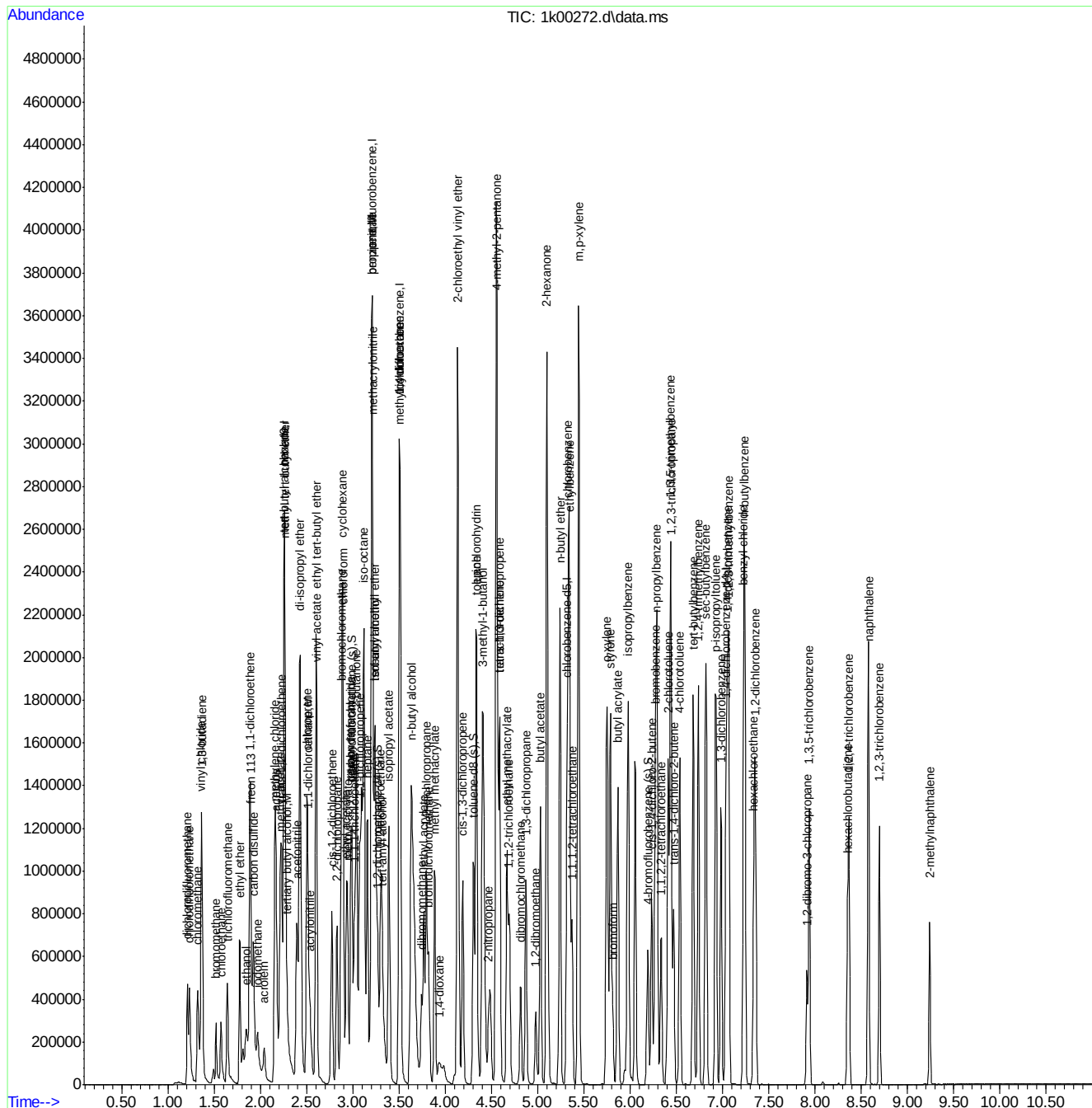
| Compound                       | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 90) styrene                    | 5.787 | 104  | 600627   | 98.93  | ug/L  | 99       |
| 91) bromoform                  | 5.813 | 173  | 135220   | 97.99  | ug/L  | 98       |
| 92) butyl acrylate             | 5.866 | 55   | 761145   | 106.79 | ug/L  | 98       |
| 93) isopropylbenzene           | 5.976 | 105  | 948571   | 97.51  | ug/L  | 99       |
| 94) cis-1,4-dichloro-2-butene  | 6.233 | 88   | 144656   | 99.89  | ug/L  | 93       |
| 97) bromobenzene               | 6.274 | 156  | 188941   | 100.20 | ug/L  | 98       |
| 98) 1,1,2,2-tetrachloroethane  | 6.332 | 83   | 298813   | 98.73  | ug/L  | 98       |
| 99) trans-1,4-dichloro-2-b...  | 6.474 | 53   | 174998   | 100.25 | ug/L  | 96       |
| 100) 1,2,3-trichloropropane    | 6.442 | 110  | 91605    | 96.56  | ug/L  | 96       |
| 101) n-propylbenzene           | 6.290 | 91   | 1208542  | 99.67  | ug/L  | 99       |
| 102) 2-chlorotoluene           | 6.411 | 126  | 190123   | 97.81  | ug/L  | 98       |
| 103) 4-chlorotoluene           | 6.537 | 91   | 719501   | 99.70  | ug/L  | 97       |
| 104) 1,3,5-trimethylbenzene    | 6.437 | 105  | 784367   | 98.32  | ug/L  | 99       |
| 105) tert-butylbenzene         | 6.683 | 119  | 625844   | 96.93  | ug/L  | 97       |
| 106) 1,2,4-trimethylbenzene    | 6.736 | 105  | 803011   | 97.01  | ug/L  | 99       |
| 107) sec-butylbenzene          | 6.820 | 105  | 1029250  | 97.84  | ug/L  | 98       |
| 108) 1,3-dichlorobenzene       | 6.982 | 146  | 375089   | 96.67  | ug/L  | 99       |
| 109) p-isopropyltoluene        | 6.930 | 119  | 784743   | 96.84  | ug/L  | 99       |
| 110) 1,4-dichlorobenzene       | 7.050 | 146  | 373889   | 97.17  | ug/L  | 98       |
| 111) 1,2-dichlorobenzene       | 7.355 | 146  | 355640   | 95.16  | ug/L  | 99       |
| 112) 1,2,3-trimethylbenzene    | 7.066 | 105  | 812441   | 97.09  | ug/L  | 99       |
| 113) n-butylbenzene            | 7.239 | 92   | 506253   | 97.36  | ug/L  | 94       |
| 114) 1,2-dibromo-3-chloropr... | 7.910 | 157  | 88753    | 97.07  | ug/L  | 95       |
| 115) 1,3,5-trichlorobenzene    | 7.937 | 180  | 261246   | 94.89  | ug/L  | 100      |
| 116) 1,2,4-trichlorobenzene    | 8.366 | 180  | 227356   | 94.85  | ug/L  | 99       |
| 117) hexachlorobutadiene       | 8.351 | 225  | 99898    | 95.76  | ug/L  | 93       |
| 118) naphthalene               | 8.581 | 128  | 929191   | 96.34  | ug/L  | 99       |
| 119) 1,2,3-trichlorobenzene    | 8.697 | 180  | 221931   | 94.01  | ug/L  | 98       |
| 120) hexachloroethane          | 7.339 | 119  | 136036   | 98.79  | ug/L  | 96       |
| 121) benzyl chloride           | 7.229 | 126  | 106001   | 99.18  | ug/L  | 93       |
| 122) 2-methylnaphthalene       | 9.242 | 142  | 224008   | 47.25  | ug/L  | 99       |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\vk11\  
Data File : 1k00272.d  
Acq On : 16 Oct 2022 10:28 pm  
Operator : PrashanS  
Sample : IC11-100  
Misc : MS62894,V1K0011,5,,,,,1  
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 17 14:57:45 2022  
Quant Method : C:\msdchem\1\methods\M1K11.M  
Quant Title : SW-846 Method 8260D, column Rtx-VMS 20m x 0.18 id x 1.0 um  
QLast Update : Mon Oct 17 14:53:51 2022  
Response via : Initial Calibration



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\vk11\  
 Data File : 1k00274.d  
 Acq On : 16 Oct 2022 11:00 pm  
 Operator : PrashanS  
 Sample : IC11-200  
 Misc : MS62894,V1K0011,5,,,1  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 20 12:15:50 2022

Quant Method : C:\msdchem\1\methods\M1K11.M

Quant Title : SW-846 Method 8260D, column Rtx-VMS 20m x 0.18 id x 1.0 um

QLast Update : Mon Oct 17 14:53:51 2022

Response via : Initial Calibration

| Compound                      | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|----------|--------|----------|
| Internal Standards            |                |      |            |          |        |          |
| 1) tert butyl alcohol-d9      | 2.258          | 65   | 336541     | 500.00   | ug/L   | 0.01     |
| 5) pentafluorobenzene         | 3.207          | 168  | 213361     | 50.00    | ug/L   | 0.00     |
| 50) 1,4-difluorobenzene       | 3.511          | 114  | 370816     | 50.00    | ug/L   | 0.00     |
| 72) chlorobenzene-d5          | 5.320          | 117  | 333486     | 50.00    | ug/L   | 0.00     |
| 95) 1,4-dichlorobenzene-d4    | 7.040          | 152  | 151061     | 50.00    | ug/L   | 0.00     |
| System Monitoring Compounds   |                |      |            |          |        |          |
| 42) dibromofluoromethane (s)  | 2.992          | 113  | 103196     | 52.03    | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 127 |      | Recovery = | 104.06%  |        |          |
| 51) 1,2-dichloroethane-d4 (s) | 3.270          | 65   | 191974     | 62.88    | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 130 |      | Recovery = | 125.76%  |        |          |
| 73) toluene-d8 (s)            | 4.308          | 98   | 489135     | 50.63    | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 80 - 120 |      | Recovery = | 101.26%  |        |          |
| 96) 4-bromofluorobenzene (s)  | 6.190          | 95   | 177890     | 52.81    | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 79 - 127 |      | Recovery = | 105.62%  |        |          |
| Target Compounds              |                |      |            |          |        |          |
|                               |                |      |            |          |        | Qvalue   |
| 2) ethanol                    | 1.860          | 45   | 1319698    | 15529.20 | ug/L   | 100      |
| 3) tertiary butyl alcohol     | 2.290          | 59   | 773685     | 834.80   | ug/L   | 89       |
| 4) 1,4-dioxane                | 3.941          | 88   | 206029     | 4285.79  | ug/L   | 92       |
| 6) chlorodifluoromethane      | 1.236          | 51   | 852150     | 198.93   | ug/L   | 100      |
| 7) dichlorodifluoromethane    | 1.215          | 85   | 583787     | 197.39   | ug/L   | 99       |
| 8) chloromethane              | 1.325          | 50   | 905707     | 212.35   | ug/L   | 98       |
| 9) vinyl chloride             | 1.367          | 62   | 736724     | 202.99   | ug/L   | 99       |
| 10) 1,3-butadiene             | 1.372          | 39   | 525522     | 196.11   | ug/L   | 96       |
| 11) bromomethane              | 1.524          | 96   | 200359     | 215.97   | ug/L # | 97       |
| 12) chloroethane              | 1.577          | 64   | 319649     | 174.41   | ug/L   | 95       |
| 13) trichlorofluoromethane    | 1.645          | 101  | 542816     | 189.07   | ug/L   | 100      |
| 14) ethyl ether               | 1.781          | 74   | 261684     | 200.52   | ug/L   | 99       |
| 15) acrolein                  | 2.043          | 56   | 187140     | 202.82   | ug/L   | 97       |
| 16) freon 113                 | 1.896          | 151  | 226914     | 183.32   | ug/L   | 89       |
| 17) 1,1-dichloroethene        | 1.891          | 61   | 757991     | 207.57   | ug/L   | 99       |
| 18) acetone                   | 2.174          | 58   | 564821     | 775.08   | ug/L   | 96       |
| 19) acetonitrile              | 2.400          | 41   | 1188046    | 1074.92  | ug/L   | 99       |
| 20) iodomethane               | 1.970          | 142  | 300238     | 206.96   | ug/L   | 99       |
| 21) carbon disulfide          | 1.923          | 76   | 1103385    | 208.94   | ug/L   | 99       |
| 22) methylene chloride        | 2.159          | 84   | 390820     | 199.97   | ug/L   | 98       |
| 23) methyl acetate            | 2.221          | 74   | 149636     | 173.06   | ug/L # | 22       |
| 24) methyl tert butyl ether   | 2.269          | 73   | 1346831    | 202.47   | ug/L   | 80       |
| 25) trans-1,2-dichloroethene  | 2.227          | 61   | 747520     | 204.44   | ug/L   | 96       |
| 26) hexane                    | 2.258          | 57   | 1510842    | 203.56   | ug/L   | 94       |
| 27) di-isopropyl ether        | 2.431          | 45   | 2412513    | 203.08   | ug/L   | 99       |
| 28) ethyl tert-butyl ether    | 2.604          | 59   | 1914962    | 205.15   | ug/L   | 99       |
| 29) 2-butanone                | 3.045          | 72   | 511652     | 825.45   | ug/L   | 99       |
| 30) 1,1-dichloroethane        | 2.520          | 63   | 937481     | 202.52   | ug/L   | 98       |
| 31) chloroprene               | 2.505          | 53   | 995657     | 200.57   | ug/L   | 99       |
| 32) acrylonitrile             | 2.541          | 52   | 372808     | 201.85   | ug/L   | 98       |
| 33) vinyl acetate             | 2.615          | 86   | 82760      | 211.20   | ug/L   | 96       |
| 34) ethyl acetate             | 2.935          | 70   | 84247      | 197.05   | ug/L   | 93       |

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\vk11\  
 Data File : 1k00274.d  
 Acq On : 16 Oct 2022 11:00 pm  
 Operator : PrashanS  
 Sample : IC11-200  
 Misc : MS62894,V1K0011,5,,,1  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 20 12:15:50 2022

Quant Method : C:\msdchem\1\methods\M1K11.M

Quant Title : SW-846 Method 8260D, column Rtx-VMS 20m x 0.18 id x 1.0 um

QLast Update : Mon Oct 17 14:53:51 2022

Response via : Initial Calibration

| Compound                      | R.T.  | QIon | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|----------|--------|----------|
| 35) 2,2-dichloropropane       | 2.830 | 77   | 583567   | 201.22   | ug/L   | 99       |
| 36) cis-1,2-dichloroethene    | 2.772 | 96   | 392680   | 203.01   | ug/L   | 94       |
| 37) propionitrile             | 3.212 | 54   | 2010805  | 2033.45  | ug/L   | 91       |
| 38) methyl acrylate           | 2.950 | 85   | 118314   | 183.02   | ug/L   | 95       |
| 39) bromochloromethane        | 2.877 | 128  | 144591   | 193.63   | ug/L   | 98       |
| 40) tetrahydrofuran           | 2.987 | 71   | 103963   | 196.18   | ug/L   | 95       |
| 41) chloroform                | 2.898 | 47   | 287645   | 201.36   | ug/L   | 98       |
| 43) methacrylonitrile         | 3.218 | 67   | 323123   | 205.43   | ug/L   | 97       |
| 44) 1,1,1-trichloroethane     | 3.018 | 97   | 585669   | 202.50   | ug/L   | 99       |
| 45) cyclohexane               | 2.887 | 84   | 715080   | 201.77   | ug/L   | 95       |
| 46) 1,1-dichloropropene       | 3.076 | 75   | 608406   | 203.34   | ug/L   | 98       |
| 47) carbon tetrachloride      | 2.987 | 117  | 489175   | 194.36   | ug/L   | 99       |
| 49) tert-amyl alcohol         | 3.323 | 55   | 345305   | 1054.94  | ug/L   | 98       |
| 52) iso-octane                | 3.123 | 57   | 2687347  | 200.33   | ug/L   | 93       |
| 53) benzene                   | 3.207 | 78   | 1767483  | 195.02   | ug/L   | 94       |
| 54) tert-amyl methyl ether    | 3.244 | 73   | 1434399  | 198.74   | ug/L   | 98       |
| 55) heptane                   | 3.160 | 57   | 370805   | 173.57   | ug/L   | 94       |
| 56) isopropyl acetate         | 3.396 | 87   | 149169   | 205.51   | ug/L # | 78       |
| 57) 1,2-dichloroethane        | 3.307 | 62   | 656444   | 195.81   | ug/L   | 99       |
| 58) n-butyl alcohol           | 3.674 | 56   | 2448530  | 10058.10 | ug/L   | 99       |
| 59) ethyl acrylate            | 3.768 | 55   | 1257870  | 209.29   | ug/L   | 99       |
| 60) trichloroethene           | 3.506 | 130  | 359841   | 193.24   | ug/L   | 98       |
| 61) 2-nitropropane            | 4.476 | 41   | 358379   | 231.37   | ug/L   | 93       |
| 62) 2-chloroethyl vinyl ether | 4.140 | 63   | 2123984  | 989.05   | ug/L   | 99       |
| 63) methyl methacrylate       | 3.889 | 100  | 160009   | 197.69   | ug/L   | 98       |
| 64) 1,2-dichloropropane       | 3.800 | 63   | 553736   | 194.61   | ug/L   | 98       |
| 65) methylcyclohexane         | 3.511 | 55   | 929093   | 198.28   | ug/L   | 98       |
| 66) dibromomethane            | 3.742 | 93   | 239952   | 197.06   | ug/L   | 95       |
| 67) bromodichloromethane      | 3.826 | 83   | 535481   | 197.01   | ug/L   | 98       |
| 68) epichlorohydrin           | 4.340 | 57   | 632110   | 976.38   | ug/L   | 97       |
| 69) cis-1,3-dichloropropene   | 4.193 | 75   | 741997   | 199.29   | ug/L   | 100      |
| 70) 4-methyl-2-pentanone      | 4.560 | 58   | 1736623  | 787.97   | ug/L   | 97       |
| 71) 3-methyl-1-butanol        | 4.424 | 70   | 714480   | 4110.90  | ug/L   | 98       |
| 74) toluene                   | 4.340 | 92   | 1049428  | 194.19   | ug/L   | 98       |
| 75) ethyl methacrylate        | 4.670 | 69   | 733231   | 200.28   | ug/L   | 97       |
| 76) trans-1,3-dichloropropene | 4.591 | 75   | 682182   | 196.93   | ug/L   | 100      |
| 77) 1,1,2-trichloroethane     | 4.696 | 83   | 316671   | 200.12   | ug/L   | 99       |
| 78) tetrachloroethene         | 4.586 | 166  | 327700   | 187.29   | ug/L   | 98       |
| 79) 2-hexanone                | 5.105 | 58   | 1968655  | 776.63   | ug/L   | 100      |
| 80) 1,3-dichloropropane       | 4.874 | 76   | 742034   | 194.84   | ug/L   | 99       |
| 81) butyl acetate             | 5.032 | 56   | 649490   | 211.66   | ug/L   | 96       |
| 82) dibromochloromethane      | 4.817 | 129  | 366616   | 198.01   | ug/L   | 99       |
| 83) 1,2-dibromoethane         | 4.985 | 107  | 367587   | 194.65   | ug/L   | 98       |
| 84) n-butyl ether             | 5.241 | 57   | 3017844  | 195.00   | ug/L   | 99       |
| 85) chlorobenzene             | 5.331 | 112  | 990303   | 194.46   | ug/L   | 99       |
| 86) 1,1,1,2-tetrachloroethane | 5.373 | 131  | 328501   | 193.75   | ug/L   | 99       |
| 87) ethylbenzene              | 5.346 | 91   | 1996272  | 194.10   | ug/L   | 99       |
| 88) m,p-xylene                | 5.446 | 106  | 1413960  | 388.81   | ug/L   | 98       |
| 89) o-xylene                  | 5.750 | 106  | 696500   | 191.62   | ug/L   | 97       |
| 90) styrene                   | 5.787 | 104  | 1194894  | 195.08   | ug/L   | 96       |

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\vk11\  
 Data File : 1k00274.d  
 Acq On : 16 Oct 2022 11:00 pm  
 Operator : PrashanS  
 Sample : IC11-200  
 Misc : MS62894,V1K0011,5,,,1  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 20 12:15:50 2022

Quant Method : C:\msdchem\1\methods\M1K11.M

Quant Title : SW-846 Method 8260D, column Rtx-VMS 20m x 0.18 id x 1.0 um

QLast Update : Mon Oct 17 14:53:51 2022

Response via : Initial Calibration

| Compound                       | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 91) bromoform                  | 5.813 | 173  | 274432   | 197.11 | ug/L  | 98       |
| 92) butyl acrylate             | 5.871 | 55   | 1553655  | 216.06 | ug/L  | 100      |
| 93) isopropylbenzene           | 5.981 | 105  | 1877794  | 191.34 | ug/L  | 100      |
| 94) cis-1,4-dichloro-2-butene  | 6.238 | 88   | 291720   | 199.67 | ug/L  | 94       |
| 97) bromobenzene               | 6.274 | 156  | 373475   | 200.27 | ug/L  | 95       |
| 98) 1,1,2,2-tetrachloroethane  | 6.337 | 83   | 593911   | 198.43 | ug/L  | 100      |
| 99) trans-1,4-dichloro-2-b...  | 6.474 | 53   | 338913   | 196.32 | ug/L  | 97       |
| 100) 1,2,3-trichloropropane    | 6.447 | 110  | 182649   | 194.68 | ug/L  | 98       |
| 101) n-propylbenzene           | 6.290 | 91   | 2375236  | 198.07 | ug/L  | 99       |
| 102) 2-chlorotoluene           | 6.411 | 126  | 373227   | 194.15 | ug/L  | 97       |
| 103) 4-chlorotoluene           | 6.542 | 91   | 1411285  | 197.75 | ug/L  | 98       |
| 104) 1,3,5-trimethylbenzene    | 6.442 | 105  | 1529463  | 193.86 | ug/L  | 99       |
| 105) tert-butylbenzene         | 6.689 | 119  | 1211362  | 189.70 | ug/L  | 99       |
| 106) 1,2,4-trimethylbenzene    | 6.741 | 105  | 1571705  | 191.99 | ug/L  | 98       |
| 107) sec-butylbenzene          | 6.820 | 105  | 1991462  | 191.43 | ug/L  | 98       |
| 108) 1,3-dichlorobenzene       | 6.987 | 146  | 726683   | 189.37 | ug/L  | 98       |
| 109) p-isopropyltoluene        | 6.930 | 119  | 1539835  | 192.14 | ug/L  | 99       |
| 110) 1,4-dichlorobenzene       | 7.050 | 146  | 728694   | 191.49 | ug/L  | 99       |
| 111) 1,2-dichlorobenzene       | 7.354 | 146  | 687125   | 185.92 | ug/L  | 97       |
| 112) 1,2,3-trimethylbenzene    | 7.066 | 105  | 1578112  | 190.70 | ug/L  | 99       |
| 113) n-butylbenzene            | 7.239 | 92   | 999133   | 194.30 | ug/L  | 86       |
| 114) 1,2-dibromo-3-chloropr... | 7.915 | 157  | 170427   | 188.48 | ug/L  | 95       |
| 115) 1,3,5-trichlorobenzene    | 7.942 | 180  | 512401   | 188.20 | ug/L  | 99       |
| 116) 1,2,4-trichlorobenzene    | 8.372 | 180  | 445055   | 187.75 | ug/L  | 98       |
| 117) hexachlorobutadiene       | 8.351 | 225  | 194216   | 188.26 | ug/L  | 96       |
| 118) naphthalene               | 8.581 | 128  | 1753703  | 183.86 | ug/L  | 99       |
| 119) 1,2,3-trichlorobenzene    | 8.702 | 180  | 424030   | 181.62 | ug/L  | 99       |
| 120) hexachloroethane          | 7.339 | 119  | 265666   | 195.08 | ug/L  | 97       |
| 121) benzyl chloride           | 7.229 | 126  | 206189   | 195.07 | ug/L  | 98       |
| 122) 2-methylnaphthalene       | 9.242 | 142  | 429474   | 91.61  | ug/L  | 99       |

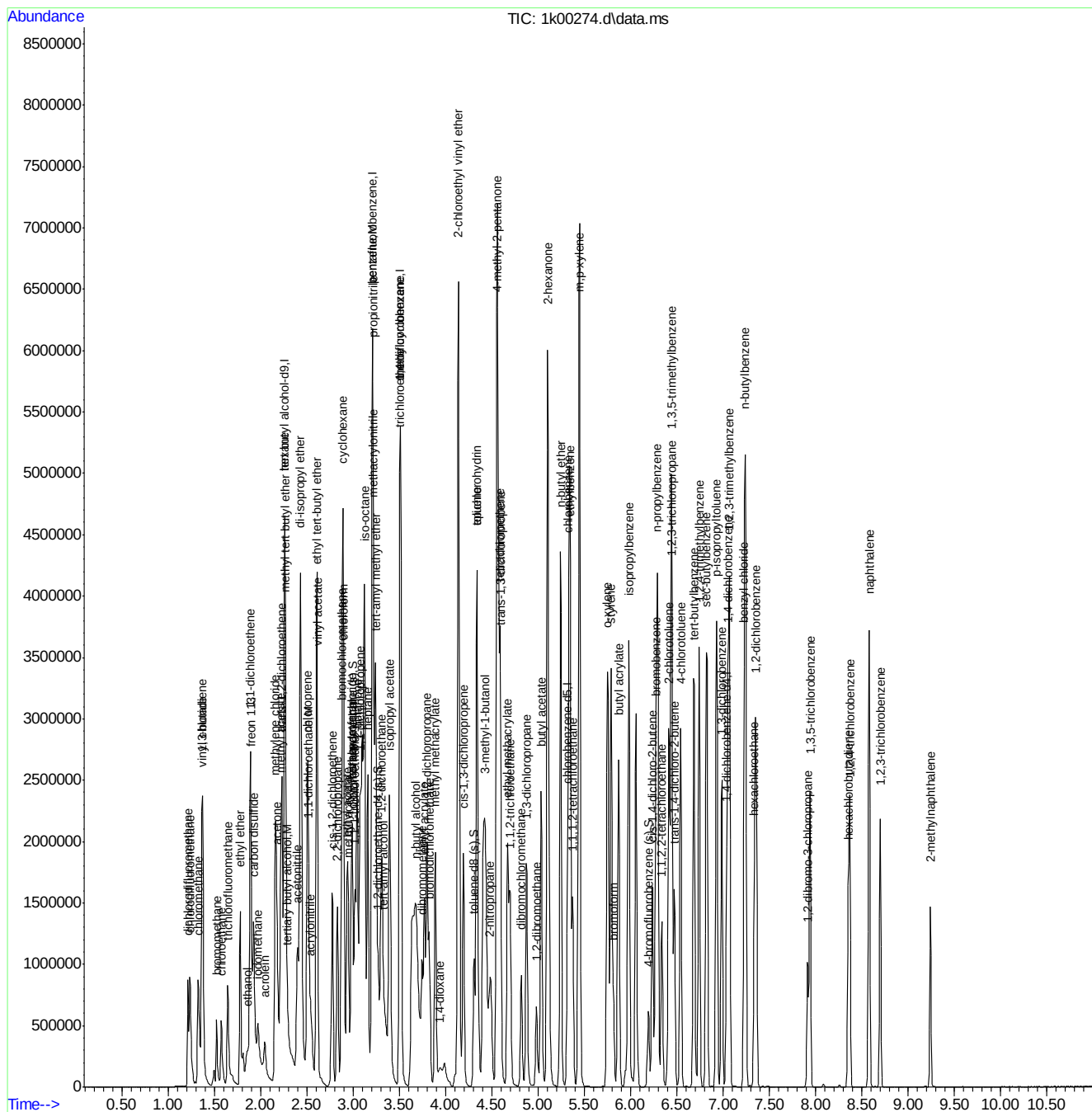
(#) = qualifier out of range (m) = manual integration (+) = signals summed



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\vk11\  
Data File : 1k00274.d  
Acq On : 16 Oct 2022 11:00 pm  
Operator : PrashanS  
Sample : IC11-200  
Misc : MS62894,V1K0011,5,,,,,1  
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 20 12:15:50 2022  
Quant Method : C:\msdchem\1\methods\M1K11.M  
Quant Title : SW-846 Method 8260D, column Rtx-VMS 20m x 0.18 id x 1.0 um  
QLast Update : Mon Oct 17 14:53:51 2022  
Response via : Initial Calibration



M1K11.M Thu Oct 20 12:17:06 2022 RPT1

Page: 4

## 7.6.10



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\vk11\  
 Data File : 1k00280.d  
 Acq On : 17 Oct 2022 12:38 am  
 Operator : PrashanS  
 Sample : ICV11-50  
 Misc : MS62894,V1K0011,5,,,1  
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 17 16:04:01 2022  
 Quant Method : C:\msdchem\1\methods\M1K11.M  
 Quant Title : SW-846 Method 8260D, column Rtx-VMS 20m x 0.18 id x 1.0 um  
 QLast Update : Mon Oct 17 15:20:12 2022  
 Response via : Initial Calibration

| Compound                      | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|---------|--------|----------|
| Internal Standards            |                |      |            |         |        |          |
| 1) tert butyl alcohol-d9      | 2.248          | 65   | 334500     | 500.00  | ug/L   | 0.00     |
| 5) pentafluorobenzene         | 3.207          | 168  | 237677     | 50.00   | ug/L   | 0.00     |
| 50) 1,4-difluorobenzene       | 3.506          | 114  | 398716     | 50.00   | ug/L   | 0.00     |
| 72) chlorobenzene-d5          | 5.320          | 117  | 351018     | 50.00   | ug/L   | 0.00     |
| 95) 1,4-dichlorobenzene-d4    | 7.035          | 152  | 161177     | 50.00   | ug/L   | 0.00     |
| System Monitoring Compounds   |                |      |            |         |        |          |
| 42) dibromofluoromethane (s)  | 2.987          | 113  | 111357     | 50.52   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 127 |      | Recovery = | 101.04% |        |          |
| 51) 1,2-dichloroethane-d4 (s) | 3.265          | 65   | 172200     | 49.19   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 130 |      | Recovery = | 98.38%  |        |          |
| 73) toluene-d8 (s)            | 4.303          | 98   | 511385     | 50.14   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 80 - 120 |      | Recovery = | 100.28% |        |          |
| 96) 4-bromofluorobenzene (s)  | 6.190          | 95   | 185399     | 50.41   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 79 - 127 |      | Recovery = | 100.82% |        |          |
| Target Compounds              |                |      |            |         |        |          |
|                               |                |      |            |         | Qvalue |          |
| 2) ethanol                    | 1.839          | 45   | 445145     | 4922.26 | ug/L   | 99       |
| 3) tertiary butyl alcohol     | 2.279          | 59   | 242458     | 272.11  | ug/L   | 99       |
| 4) 1,4-dioxane                | 3.931          | 88   | 63687      | 1415.31 | ug/L   | 92       |
| 7) dichlorodifluoromethane    | 1.209          | 85   | 152053     | 48.82   | ug/L   | 99       |
| 8) chloromethane              | 1.320          | 50   | 237049     | 49.82   | ug/L   | 99       |
| 9) vinyl chloride             | 1.356          | 62   | 195635     | 49.96   | ug/L   | 100      |
| 10) 1,3-butadiene             | 1.367          | 39   | 211714     | 72.18   | ug/L   | 96       |
| 11) bromomethane              | 1.519          | 96   | 51058      | 52.28   | ug/L   | # 97     |
| 12) chloroethane              | 1.577          | 64   | 104232     | 47.38   | ug/L   | 97       |
| 13) trichlorofluoromethane    | 1.645          | 101  | 150372     | 50.94   | ug/L   | 98       |
| 14) ethyl ether               | 1.781          | 74   | 76849      | 56.38   | ug/L   | 89       |
| 15) acrolein                  | 2.038          | 56   | 53875      | 58.84   | ug/L   | 95       |
| 16) freon 113                 | 1.896          | 151  | 63934      | 50.34   | ug/L   | 95       |
| 17) 1,1-dichloroethene        | 1.886          | 61   | 201396     | 51.16   | ug/L   | 99       |
| 18) acetone                   | 2.169          | 58   | 140495     | 176.49  | ug/L   | 92       |
| 20) iodomethane               | 1.970          | 142  | 91136      | 64.00   | ug/L   | 99       |
| 21) carbon disulfide          | 1.923          | 76   | 314686     | 53.57   | ug/L   | 99       |
| 22) methylene chloride        | 2.153          | 84   | 110352     | 54.03   | ug/L   | 98       |
| 23) methyl acetate            | 2.211          | 74   | 48447      | 50.18   | ug/L   | # 64     |
| 24) methyl tert butyl ether   | 2.263          | 73   | 386346     | 55.86   | ug/L   | 88       |
| 25) trans-1,2-dichloroethene  | 2.227          | 61   | 203103     | 46.37   | ug/L   | 99       |
| 26) hexane                    | 2.258          | 57   | 412726     | 50.82   | ug/L   | 98       |
| 27) di-isopropyl ether        | 2.426          | 45   | 667200     | 52.37   | ug/L   | 99       |
| 28) ethyl tert-butyl ether    | 2.599          | 59   | 522742     | 53.94   | ug/L   | 99       |
| 29) 2-butanone                | 3.039          | 72   | 139880     | 213.48  | ug/L   | 95       |
| 30) 1,1-dichloroethane        | 2.515          | 63   | 262391     | 52.89   | ug/L   | 98       |
| 31) chloroprene               | 2.505          | 53   | 288410     | 53.96   | ug/L   | 99       |
| 33) vinyl acetate             | 2.604          | 86   | 19693      | 49.31   | ug/L   | # 74     |
| 34) ethyl acetate             | 2.929          | 70   | 25166      | 59.57   | ug/L   | 95       |
| 35) 2,2-dichloropropane       | 2.830          | 77   | 158720     | 51.46   | ug/L   | 98       |
| 36) cis-1,2-dichloroethene    | 2.772          | 96   | 111737     | 53.29   | ug/L   | 95       |
| 37) propionitrile             | 3.202          | 54   | 531627     | 496.97  | ug/L   | 99       |



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\vk11\  
 Data File : 1k00280.d  
 Acq On : 17 Oct 2022 12:38 am  
 Operator : PrashanS  
 Sample : ICV11-50  
 Misc : MS62894,V1K0011,5,,,1  
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 17 16:04:01 2022

Quant Method : C:\msdchem\1\methods\M1K11.M

Quant Title : SW-846 Method 8260D, column Rtx-VMS 20m x 0.18 id x 1.0 um

QLast Update : Mon Oct 17 15:20:12 2022

Response via : Initial Calibration

| Compound                      | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|-------|------|----------|---------|-------|----------|
| 38) methyl acrylate           | 2.945 | 85   | 34439    | 49.71   | ug/L  | 99       |
| 39) bromochloromethane        | 2.877 | 128  | 40222    | 49.55   | ug/L  | 88       |
| 40) tetrahydrofuran           | 2.982 | 71   | 30420    | 53.09   | ug/L  | 93       |
| 41) chloroform                | 2.893 | 47   | 84838    | 53.17   | ug/L  | 98       |
| 43) methacrylonitrile         | 3.212 | 67   | 93233    | 51.57   | ug/L  | 96       |
| 44) 1,1,1-trichloroethane     | 3.013 | 97   | 165127   | 55.14   | ug/L  | 99       |
| 45) cyclohexane               | 2.887 | 84   | 202948   | 53.68   | ug/L  | 97       |
| 46) 1,1-dichloropropene       | 3.071 | 75   | 170233   | 55.17   | ug/L  | 99       |
| 47) carbon tetrachloride      | 2.982 | 117  | 133660   | 49.18   | ug/L  | 96       |
| 48) isobutyl alcohol          | 3.244 | 43   | 373361   | 524.56  | ug/L  | 100      |
| 49) tert-amyl alcohol         | 3.312 | 55   | 93145    | 263.82  | ug/L  | 94       |
| 52) iso-octane                | 3.118 | 57   | 650968   | 45.09   | ug/L  | 94       |
| 53) benzene                   | 3.202 | 78   | 504760   | 51.22   | ug/L  | 99       |
| 54) tert-amyl methyl ether    | 3.239 | 73   | 390430   | 49.90   | ug/L  | 99       |
| 55) heptane                   | 3.160 | 57   | 121416   | 57.98   | ug/L  | 98       |
| 56) isopropyl acetate         | 3.391 | 87   | 42248    | 57.19   | ug/L  | # 91     |
| 57) 1,2-dichloroethane        | 3.301 | 62   | 184877   | 50.35   | ug/L  | 99       |
| 58) n-butyl alcohol           | 3.627 | 56   | 692601   | 2842.73 | ug/L  | 97       |
| 59) ethyl acrylate            | 3.768 | 55   | 333158   | 56.28   | ug/L  | 99       |
| 60) trichloroethene           | 3.506 | 130  | 104751   | 52.76   | ug/L  | 99       |
| 61) 2-nitropropane            | 4.471 | 41   | 93868    | 55.63   | ug/L  | # 42     |
| 62) 2-chloroethyl vinyl ether | 4.135 | 63   | 486077   | 226.03  | ug/L  | 99       |
| 63) methyl methacrylate       | 3.889 | 100  | 47887    | 57.96   | ug/L  | # 86     |
| 64) 1,2-dichloropropane       | 3.794 | 63   | 155842   | 52.49   | ug/L  | 98       |
| 65) methylcyclohexane         | 3.511 | 55   | 257475   | 48.08   | ug/L  | 99       |
| 66) dibromomethane            | 3.742 | 93   | 67660    | 51.45   | ug/L  | 98       |
| 67) bromodichloromethane      | 3.821 | 83   | 148526   | 53.90   | ug/L  | 98       |
| 68) epichlorohydrin           | 4.334 | 57   | 169930   | 255.16  | ug/L  | 99       |
| 69) cis-1,3-dichloropropene   | 4.188 | 75   | 201735   | 51.71   | ug/L  | 100      |
| 70) 4-methyl-2-pentanone      | 4.555 | 58   | 477949   | 215.45  | ug/L  | 98       |
| 71) 3-methyl-1-butanol        | 4.402 | 70   | 199862   | 1172.89 | ug/L  | 98       |
| 74) toluene                   | 4.334 | 92   | 296087   | 52.55   | ug/L  | 99       |
| 75) ethyl methacrylate        | 4.670 | 69   | 191738   | 53.89   | ug/L  | 98       |
| 76) trans-1,3-dichloropropene | 4.586 | 75   | 188113   | 54.47   | ug/L  | 99       |
| 77) 1,1,2-trichloroethane     | 4.691 | 83   | 87981    | 52.98   | ug/L  | 99       |
| 79) 2-hexanone                | 5.100 | 58   | 536092   | 219.02  | ug/L  | 97       |
| 80) 1,3-dichloropropane       | 4.874 | 76   | 207031   | 53.21   | ug/L  | 99       |
| 81) butyl acetate             | 5.026 | 56   | 181798   | 61.49   | ug/L  | 99       |
| 82) dibromochloromethane      | 4.811 | 129  | 99723    | 53.53   | ug/L  | 99       |
| 83) 1,2-dibromoethane         | 4.979 | 107  | 102289   | 53.59   | ug/L  | 97       |
| 84) n-butyl ether             | 5.236 | 57   | 816007   | 53.36   | ug/L  | 99       |
| 85) chlorobenzene             | 5.331 | 112  | 277502   | 51.97   | ug/L  | 98       |
| 86) 1,1,1,2-tetrachloroethane | 5.367 | 131  | 92737    | 57.55   | ug/L  | 98       |
| 87) ethylbenzene              | 5.341 | 91   | 564838   | 52.56   | ug/L  | 99       |
| 88) m,p-xylene                | 5.441 | 106  | 402142   | 105.68  | ug/L  | 100      |
| 89) o-xylene                  | 5.750 | 106  | 199902   | 54.58   | ug/L  | 100      |
| 90) styrene                   | 5.787 | 104  | 338064   | 56.00   | ug/L  | 99       |
| 91) bromoform                 | 5.808 | 173  | 74730    | 55.85   | ug/L  | 99       |
| 92) butyl acrylate            | 5.865 | 55   | 409200   | 59.41   | ug/L  | 99       |
| 93) isopropylbenzene          | 5.975 | 105  | 537920   | 54.65   | ug/L  | 99       |

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\vk11\  
 Data File : 1k00280.d  
 Acq On : 17 Oct 2022 12:38 am  
 Operator : PrashanS  
 Sample : ICV11-50  
 Misc : MS62894,V1K0011,5,,,1  
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 17 16:04:01 2022

Quant Method : C:\msdchem\1\methods\M1K11.M

Quant Title : SW-846 Method 8260D, column Rtx-VMS 20m x 0.18 id x 1.0 um

QLast Update : Mon Oct 17 15:20:12 2022

Response via : Initial Calibration

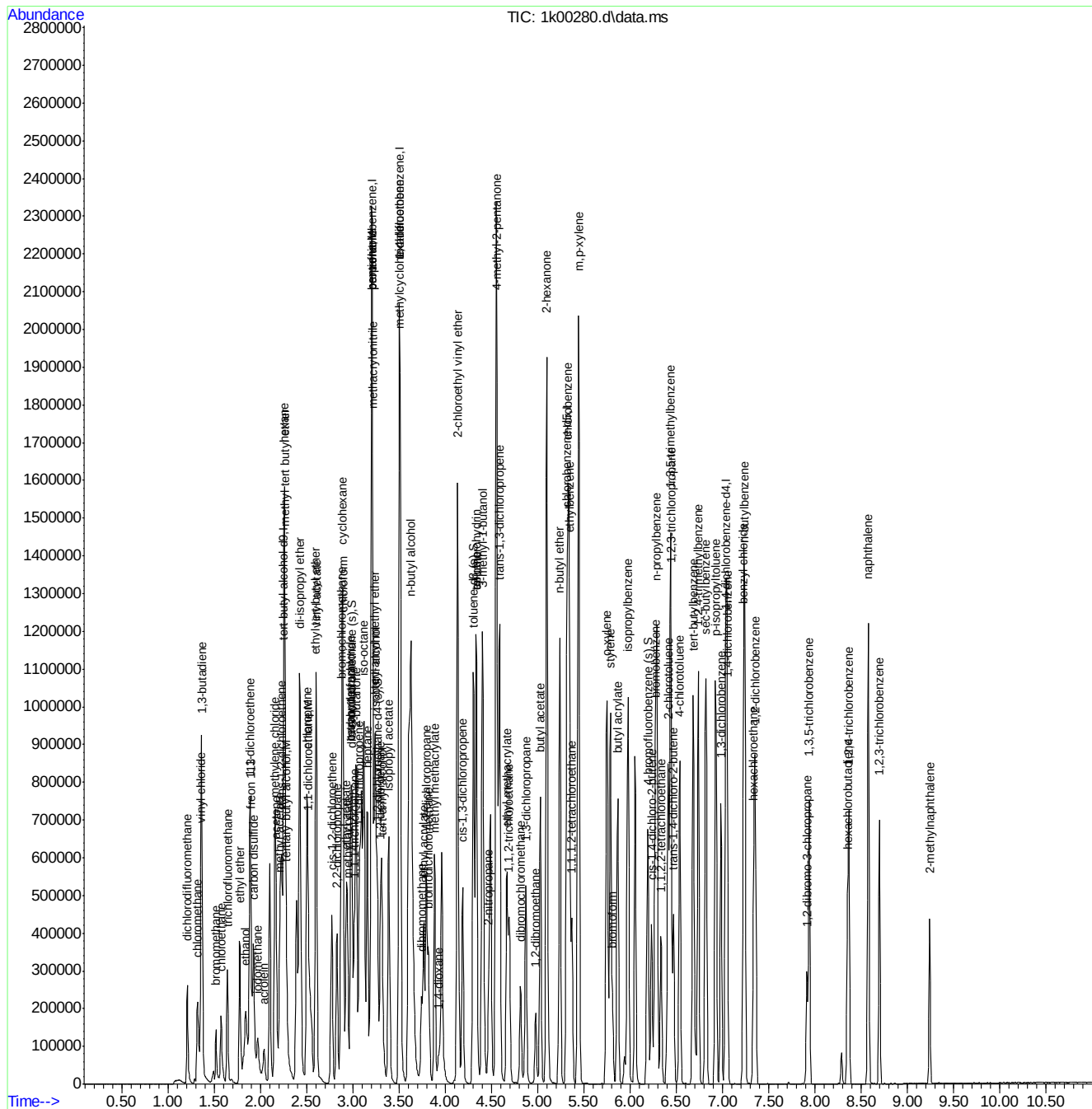
|      | Compound                  | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|------|---------------------------|-------|------|----------|-------|-------|----------|
| 94)  | cis-1,4-dichloro-2-butene | 6.232 | 88   | 71168    | 52.23 | ug/L  | 96       |
| 97)  | bromobenzene              | 6.274 | 156  | 105595   | 54.33 | ug/L  | 94       |
| 98)  | 1,1,2,2-tetrachloroethane | 6.332 | 83   | 167397   | 52.71 | ug/L  | 99       |
| 99)  | trans-1,4-dichloro-2-b... | 6.468 | 53   | 96107    | 54.00 | ug/L  | 99       |
| 100) | 1,2,3-trichloropropane    | 6.442 | 110  | 51154    | 55.36 | ug/L  | 97       |
| 101) | n-propylbenzene           | 6.285 | 91   | 674598   | 53.65 | ug/L  | 99       |
| 102) | 2-chlorotoluene           | 6.411 | 126  | 109148   | 53.96 | ug/L  | 98       |
| 103) | 4-chlorotoluene           | 6.536 | 91   | 403401   | 52.97 | ug/L  | 100      |
| 104) | 1,3,5-trimethylbenzene    | 6.437 | 105  | 447471   | 54.49 | ug/L  | 99       |
| 105) | tert-butylbenzene         | 6.683 | 119  | 363947   | 55.24 | ug/L  | 97       |
| 106) | 1,2,4-trimethylbenzene    | 6.736 | 105  | 457082   | 54.78 | ug/L  | 98       |
| 107) | sec-butylbenzene          | 6.820 | 105  | 575020   | 54.63 | ug/L  | 99       |
| 108) | 1,3-dichlorobenzene       | 6.982 | 146  | 213569   | 53.43 | ug/L  | 98       |
| 109) | p-isopropyltoluene        | 6.924 | 119  | 445823   | 55.33 | ug/L  | 98       |
| 110) | 1,4-dichlorobenzene       | 7.050 | 146  | 211941   | 53.46 | ug/L  | 99       |
| 111) | 1,2-dichlorobenzene       | 7.354 | 146  | 203128   | 52.10 | ug/L  | 97       |
| 113) | n-butylbenzene            | 7.239 | 92   | 281701   | 54.85 | ug/L  | 99       |
| 114) | 1,2-dibromo-3-chloropr... | 7.910 | 157  | 50211    | 56.59 | ug/L  | 97       |
| 115) | 1,3,5-trichlorobenzene    | 7.936 | 180  | 151877   | 52.52 | ug/L  | 99       |
| 116) | 1,2,4-trichlorobenzene    | 8.366 | 180  | 132346   | 54.38 | ug/L  | 98       |
| 117) | hexachlorobutadiene       | 8.351 | 225  | 56539    | 53.90 | ug/L  | 95       |
| 118) | naphthalene               | 8.576 | 128  | 526951   | 55.13 | ug/L  | 100      |
| 119) | 1,2,3-trichlorobenzene    | 8.697 | 180  | 130918   | 54.99 | ug/L  | 98       |
| 120) | hexachloroethane          | 7.339 | 119  | 75805    | 55.59 | ug/L  | 99       |
| 121) | benzyl chloride           | 7.229 | 126  | 55664    | 55.47 | ug/L  | 93       |
| 122) | 2-methylnaphthalene       | 9.242 | 142  | 127903   | 28.33 | ug/L  | 98       |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\vk11\  
Data File : 1k00280.d  
Acq On : 17 Oct 2022 12:38 am  
Operator : PrashanS  
Sample : ICV11-50  
Misc : MS62894,V1K0011,5,,,,,1  
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 17 16:04:01 2022  
Quant Method : C:\msdchem\1\methods\M1K11.M  
Quant Title : SW-846 Method 8260D, column Rtx-VMS 20m x 0.18 id x 1.0 um  
QLast Update : Mon Oct 17 15:20:12 2022  
Response via : Initial Calibration



## 7.6.11

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\vk11\  
 Data File : 1k00282.d  
 Acq On : 17 Oct 2022 1:10 am  
 Operator : PrashanS  
 Sample : ICV11-50  
 Misc : MS62894,V1K0011,5,,,,1  
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 17 16:11:19 2022  
 Quant Method : C:\msdchem\1\methods\M1K11.M  
 Quant Title : SW-846 Method 8260D, column Rtx-VMS 20m x 0.18 id x 1.0 um  
 QLast Update : Mon Oct 17 15:20:12 2022  
 Response via : Initial Calibration

| Compound                      | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|---------|--------|----------|
| -----                         |                |      |            |         |        |          |
| Internal Standards            |                |      |            |         |        |          |
| 1) tert butyl alcohol-d9      | 2.248          | 65   | 324598     | 500.00  | ug/L   | 0.00     |
| 5) pentafluorobenzene         | 3.207          | 168  | 240687     | 50.00   | ug/L   | 0.00     |
| 50) 1,4-difluorobenzene       | 3.506          | 114  | 393037     | 50.00   | ug/L   | 0.00     |
| 72) chlorobenzene-d5          | 5.315          | 117  | 346875     | 50.00   | ug/L   | 0.00     |
| 95) 1,4-dichlorobenzene-d4    | 7.035          | 152  | 156924     | 50.00   | ug/L   | 0.00     |
| System Monitoring Compounds   |                |      |            |         |        |          |
| 42) dibromofluoromethane (s)  | 2.987          | 113  | 113244     | 50.74   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 127 |      | Recovery = | 101.48% |        |          |
| 51) 1,2-dichloroethane-d4 (s) | 3.265          | 65   | 171311     | 49.64   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 130 |      | Recovery = | 99.28%  |        |          |
| 73) toluene-d8 (s)            | 4.303          | 98   | 502222     | 49.83   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 80 - 120 |      | Recovery = | 99.66%  |        |          |
| 96) 4-bromofluorobenzene (s)  | 6.185          | 95   | 181603     | 50.71   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 79 - 127 |      | Recovery = | 101.42% |        |          |
| Target Compounds              |                |      |            |         |        |          |
|                               |                |      |            |         | Qvalue |          |
| 6) chlorodifluoromethane      | 1.231          | 51   | 254210     | 54.31   | ug/L   | 97       |
| 19) acetonitrile              | 2.389          | 41   | 468495     | 374.10  | ug/L   | 99       |
| 32) acrylonitrile             | 2.536          | 52   | 85504      | 44.72   | ug/L   | 98       |
| 78) tetrachloroethene         | 4.586          | 166  | 92029      | 51.85   | ug/L   | 99       |
| 112) 1,2,3-trimethylbenzene   | 7.066          | 105  | 485425     | 57.32   | ug/L   | 100      |
| -----                         |                |      |            |         |        |          |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

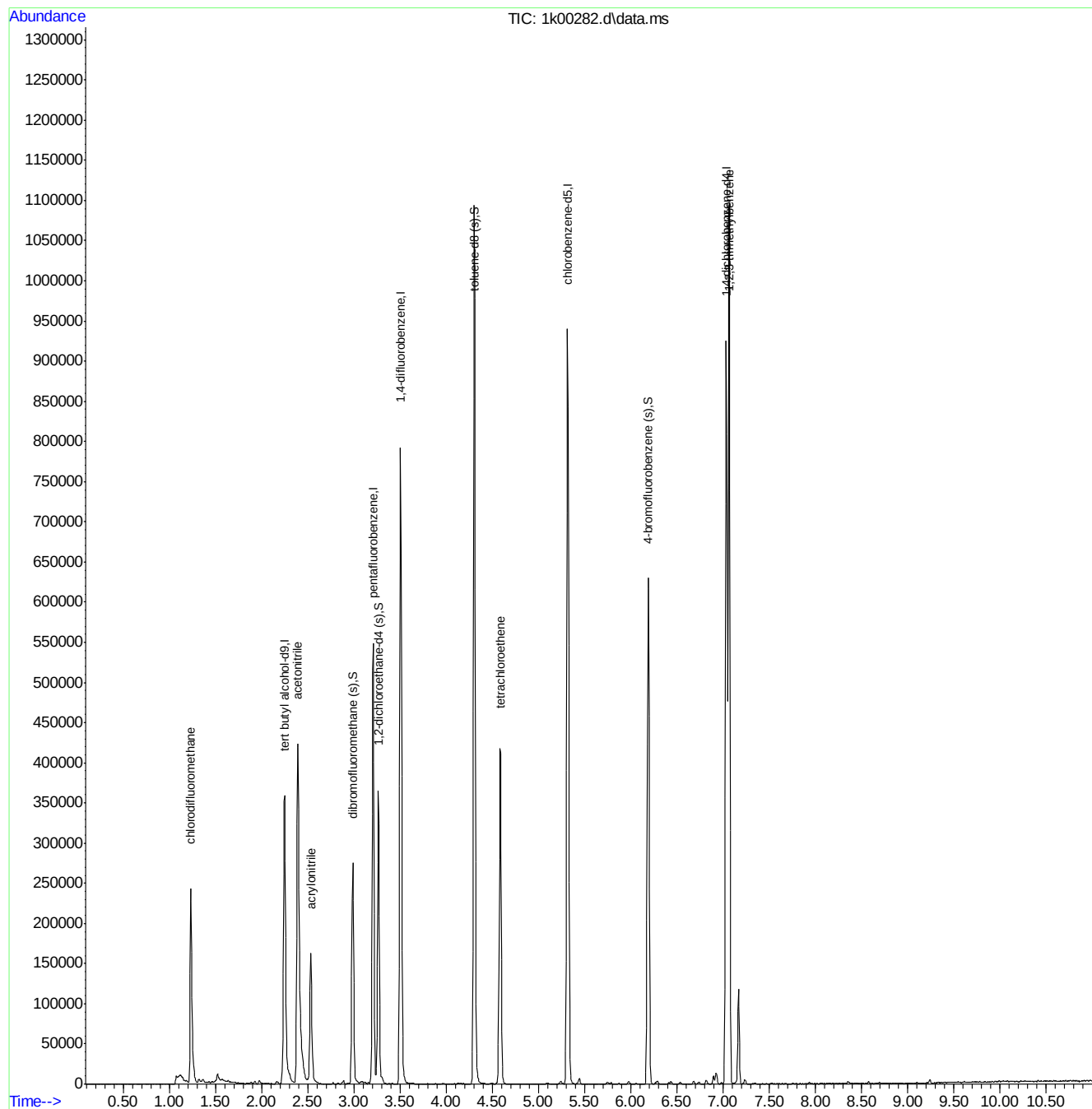
7.6.12

7

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\vk11\  
Data File : 1k00282.d  
Acq On : 17 Oct 2022 1:10 am  
Operator : PrashanS  
Sample : ICV11-50  
Misc : MS62894,V1K0011,5,,,,1  
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 17 16:11:19 2022  
Quant Method : C:\msdchem\1\methods\M1K11.M  
Quant Title : SW-846 Method 8260D, column Rtx-VMS 20m x 0.18 id x 1.0 um  
QLast Update : Mon Oct 17 15:20:12 2022  
Response via : Initial Calibration



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\renee\5.November\11-03-22\v1k38\  
 Data File : 1k01224.d  
 Acq On : 2 Nov 2022 8:49 am  
 Operator : taylors  
 Sample : CC11-20 Inst : GCMS K  
 Misc : MS63534,V1K0038,5,,,,,1  
 ALS Vial : 3 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\M1K11.M  
 Quant Results File: M1K11.RES  
 Quant Time: Nov 02 23:53:28 2022  
 Quant Title : SW-846 Method 8260D, column Rtx-VMS 20m x 0.18 id x 1.0 um  
 QLast Update : Mon Oct 17 15:20:12 2022  
 Response via : Initial Calibration

| Compound                      | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|---------|--------|----------|
| Internal Standards            |                |      |            |         |        |          |
| 1) tert butyl alcohol-d9      | 2.253          | 65   | 468973     | 500.00  | ug/L   | 0.00     |
| 5) pentafluorobenzene         | 3.212          | 168  | 299002     | 50.00   | ug/L   | 0.00     |
| 50) 1,4-difluorobenzene       | 3.511          | 114  | 501228     | 50.00   | ug/L   | 0.00     |
| 72) chlorobenzene-d5          | 5.325          | 117  | 437198     | 50.00   | ug/L   | 0.01     |
| 95) 1,4-dichlorobenzene-d4    | 7.045          | 152  | 180205     | 50.00   | ug/L   | 0.01     |
| System Monitoring Compounds   |                |      |            |         |        |          |
| 42) dibromofluoromethane (s)  | 2.992          | 113  | 141497     | 51.03   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 127 |      | Recovery = | 102.06% |        |          |
| 51) 1,2-dichloroethane-d4 (s) | 3.275          | 65   | 229578     | 52.16   | ug/L   | 0.01     |
| Spiked Amount 50.000          | Range 75 - 130 |      | Recovery = | 104.32% |        |          |
| 73) toluene-d8 (s)            | 4.313          | 98   | 664613     | 52.32   | ug/L   | 0.01     |
| Spiked Amount 50.000          | Range 80 - 120 |      | Recovery = | 104.64% |        |          |
| 96) 4-bromofluorobenzene (s)  | 6.196          | 95   | 234043     | 56.91   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 79 - 127 |      | Recovery = | 113.82% |        |          |
| Target Compounds              |                |      |            |         |        |          |
| 2) ethanol                    | 1.844          | 45   | 236120     | 1862.28 | ug/L   | 100      |
| 3) tertiary butyl alcohol     | 2.284          | 59   | 114236     | 91.44   | ug/L   | 96       |
| 4) 1,4-dioxane                | 3.936          | 88   | 31419      | 498.02  | ug/L   | 91       |
| 6) chlorodifluoromethane      | 1.236          | 51   | 102625     | 17.65   | ug/L   | 94       |
| 7) dichlorodifluoromethane    | 1.215          | 85   | 78219      | 19.96   | ug/L   | 99       |
| 8) chloromethane              | 1.325          | 50   | 114684     | 19.16   | ug/L   | 96       |
| 9) vinyl chloride             | 1.361          | 62   | 92335      | 18.74   | ug/L   | 99       |
| 10) 1,3-butadiene             | 1.367          | 39   | 71873      | 19.48   | ug/L   | 99       |
| 11) bromomethane              | 1.524          | 96   | 33125      | 26.96   | ug/L # | 90       |
| 12) chloroethane              | 1.587          | 64   | 58297      | 21.06   | ug/L   | 92       |
| 13) trichlorofluoromethane    | 1.650          | 101  | 71434      | 19.24   | ug/L   | 95       |
| 14) ethyl ether               | 1.786          | 74   | 34628      | 20.20   | ug/L   | 87       |
| 15) acrolein                  | 2.043          | 56   | 26993      | 23.43   | ug/L   | 98       |
| 16) freon 113                 | 1.901          | 151  | 27399      | 17.15   | ug/L   | 93       |
| 17) 1,1-dichloroethene        | 1.896          | 61   | 86453      | 17.46   | ug/L   | 99       |
| 18) acetone                   | 2.169          | 58   | 63348      | 63.25   | ug/L   | 91       |
| 19) acetonitrile              | 2.394          | 41   | 232720m    | 149.59  | ug/L   |          |
| 20) iodomethane               | 1.980          | 142  | 20207      | 11.28   | ug/L   | 96       |
| 21) carbon disulfide          | 1.933          | 76   | 128818     | 17.43   | ug/L   | 100      |
| 22) methylene chloride        | 2.164          | 84   | 48576      | 18.90   | ug/L   | 96       |
| 23) methyl acetate            | 2.216          | 74   | 18896      | 15.56   | ug/L # | 60       |
| 24) methyl tert butyl ether   | 2.268          | 73   | 170562     | 19.60   | ug/L   | 86       |
| 25) trans-1,2-dichloroethene  | 2.232          | 61   | 92385      | 16.76   | ug/L   | 96       |
| 26) hexane                    | 2.263          | 57   | 186172     | 18.22   | ug/L   | 98       |
| 27) di-isopropyl ether        | 2.431          | 45   | 296689     | 18.51   | ug/L   | 99       |
| 28) ethyl tert-butyl ether    | 2.604          | 59   | 237831     | 19.51   | ug/L   | 99       |
| 29) 2-butanone                | 3.039          | 72   | 62076      | 75.31   | ug/L   | 92       |
| 30) 1,1-dichloroethane        | 2.520          | 63   | 117338     | 18.80   | ug/L   | 98       |
| 31) chloroprene               | 2.510          | 53   | 129194     | 19.21   | ug/L   | 99       |
| 32) acrylonitrile             | 2.541          | 52   | 46205      | 19.45   | ug/L   | 97       |
| 33) vinyl acetate             | 2.615          | 86   | 14812      | 29.48   | ug/L   | 98       |
| 34) ethyl acetate             | 2.934          | 70   | 11436      | 21.52   | ug/L   | 97       |
| 35) 2,2-dichloropropane       | 2.835          | 77   | 77973      | 20.09   | ug/L   | 96       |
| 36) cis-1,2-dichloroethene    | 2.777          | 96   | 47986      | 18.19   | ug/L   | 97       |
| 37) propionitrile             | 3.202          | 54   | 259583     | 192.89  | ug/L   | 94       |
| 38) methyl acrylate           | 2.950          | 85   | 14958      | 17.16   | ug/L # | 81       |
| 39) bromochloromethane        | 2.882          | 128  | 19510      | 19.11   | ug/L   | 91       |
| 40) tetrahydrofuran           | 2.987          | 71   | 14448      | 20.04   | ug/L # | 88       |
| 41) chloroform                | 2.898          | 47   | 35847      | 17.86   | ug/L   | 96       |

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\renee\5.November\11-03-22\v1k38\  
 Data File : 1k01224.d  
 Acq On : 2 Nov 2022 8:49 am  
 Operator : taylors  
 Sample : CC11-20 Inst : GCMS K  
 Misc : MS63534,V1K0038,5,,,,,1  
 ALS Vial : 3 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\M1K11.M  
 Quant Results File: M1K11.RES  
 Quant Time: Nov 02 23:53:28 2022  
 Quant Title : SW-846 Method 8260D, column Rtx-VMS 20m x 0.18 id x 1.0 um  
 QLast Update : Mon Oct 17 15:20:12 2022  
 Response via : Initial Calibration

| Compound                      | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|---------|--------|----------|
| 43) methacrylonitrile         | 3.212 | 67   | 43286    | 19.03   | ug/L   | 96       |
| 44) 1,1,1-trichloroethane     | 3.018 | 97   | 72416    | 19.22   | ug/L   | 98       |
| 45) cyclohexane               | 2.892 | 84   | 92832    | 19.52   | ug/L   | 99       |
| 46) 1,1-dichloropropene       | 3.081 | 75   | 73819    | 19.02   | ug/L   | 99       |
| 47) carbon tetrachloride      | 2.992 | 117  | 55324    | 16.18   | ug/L   | 96       |
| 48) isobutyl alcohol          | 3.249 | 43   | 187648   | 209.57  | ug/L   | 95       |
| 49) tert-amyl alcohol         | 3.317 | 55   | 46445    | 104.57  | ug/L   | 95       |
| 52) iso-octane                | 3.123 | 57   | 296600   | 16.34   | ug/L   | 94       |
| 53) benzene                   | 3.207 | 78   | 210678   | 17.01   | ug/L   | 97       |
| 54) tert-amyl methyl ether    | 3.244 | 73   | 184880   | 18.80   | ug/L   | 97       |
| 55) heptane                   | 3.165 | 57   | 53242    | 20.22   | ug/L   | 83       |
| 56) isopropyl acetate         | 3.396 | 87   | 19080    | 20.55   | ug/L # | 81       |
| 57) 1,2-dichloroethane        | 3.307 | 62   | 83859    | 18.17   | ug/L   | 95       |
| 58) n-butyl alcohol           | 3.632 | 56   | 343744   | 1122.32 | ug/L   | 96       |
| 59) ethyl acrylate            | 3.773 | 55   | 156036   | 20.97   | ug/L   | 99       |
| 60) trichloroethene           | 3.511 | 130  | 39106    | 15.67   | ug/L   | 99       |
| 61) 2-nitropropane            | 4.476 | 41   | 36976    | 17.43   | ug/L   | 91       |
| 62) 2-chloroethyl vinyl ether | 4.140 | 63   | 260463   | 96.35   | ug/L   | 98       |
| 63) methyl methacrylate       | 3.889 | 100  | 19160    | 18.45   | ug/L # | 87       |
| 64) 1,2-dichloropropane       | 3.799 | 63   | 66972    | 17.94   | ug/L   | 96       |
| 65) methylcyclohexane         | 3.516 | 55   | 106361   | 15.80   | ug/L   | 97       |
| 66) dibromomethane            | 3.747 | 93   | 30064    | 18.18   | ug/L   | 93       |
| 67) bromodichloromethane      | 3.826 | 83   | 65403    | 18.88   | ug/L   | 99       |
| 68) epichlorohydrin           | 4.339 | 57   | 85740    | 102.41  | ug/L   | 96       |
| 69) cis-1,3-dichloropropene   | 4.193 | 75   | 91340    | 18.62   | ug/L   | 99       |
| 70) 4-methyl-2-pentanone      | 4.560 | 58   | 217811   | 78.10   | ug/L   | 96       |
| 71) 3-methyl-1-butanol        | 4.402 | 70   | 95210    | 444.47  | ug/L   | 98       |
| 74) toluene                   | 4.345 | 92   | 120624   | 17.19   | ug/L   | 99       |
| 75) ethyl methacrylate        | 4.675 | 69   | 91494    | 20.65   | ug/L   | 98       |
| 76) trans-1,3-dichloropropene | 4.591 | 75   | 88076    | 20.48   | ug/L   | 99       |
| 77) 1,1,2-trichloroethane     | 4.696 | 83   | 38664    | 18.69   | ug/L   | 97       |
| 78) tetrachloroethene         | 4.591 | 166  | 36463    | 16.30   | ug/L   | 96       |
| 79) 2-hexanone                | 5.105 | 58   | 243036   | 79.72   | ug/L   | 99       |
| 80) 1,3-dichloropropane       | 4.880 | 76   | 91390    | 18.86   | ug/L   | 98       |
| 81) butyl acetate             | 5.032 | 56   | 80873    | 21.96   | ug/L   | 91       |
| 82) dibromochloromethane      | 4.822 | 129  | 40471    | 17.44   | ug/L   | 95       |
| 83) 1,2-dibromoethane         | 4.984 | 107  | 43855    | 18.45   | ug/L   | 99       |
| 84) n-butyl ether             | 5.247 | 57   | 347503   | 18.24   | ug/L   | 99       |
| 85) chlorobenzene             | 5.336 | 112  | 116641   | 17.54   | ug/L   | 96       |
| 86) 1,1,1,2-tetrachloroethane | 5.372 | 131  | 35803    | 17.84   | ug/L   | 96       |
| 87) ethylbenzene              | 5.346 | 91   | 229844   | 17.17   | ug/L   | 95       |
| 88) m,p-xylene                | 5.446 | 106  | 160985   | 33.97   | ug/L   | 100      |
| 89) o-xylene                  | 5.755 | 106  | 77844    | 17.06   | ug/L   | 92       |
| 90) styrene                   | 5.792 | 104  | 132749   | 17.66   | ug/L   | 97       |
| 91) bromoform                 | 5.818 | 173  | 29717    | 17.83   | ug/L   | 98       |
| 92) butyl acrylate            | 5.870 | 55   | 190081   | 22.16   | ug/L   | 99       |
| 93) isopropylbenzene          | 5.986 | 105  | 209467   | 17.08   | ug/L   | 98       |
| 94) cis-1,4-dichloro-2-butene | 6.237 | 88   | 31157    | 18.36   | ug/L # | 79       |
| 97) bromobenzene              | 6.279 | 156  | 41719    | 19.20   | ug/L   | 86       |
| 98) 1,1,2,2-tetrachloroethane | 6.342 | 83   | 77301    | 21.77   | ug/L   | 95       |
| 99) trans-1,4-dichloro-2-b... | 6.479 | 53   | 41540    | 20.88   | ug/L   | 97       |
| 100) 1,2,3-trichloropropane   | 6.447 | 110  | 23146    | 22.40   | ug/L   | 99       |
| 101) n-propylbenzene          | 6.295 | 91   | 266901   | 18.99   | ug/L   | 99       |
| 102) 2-chlorotoluene          | 6.416 | 126  | 41893    | 18.53   | ug/L   | 99       |
| 103) 4-chlorotoluene          | 6.542 | 91   | 167232   | 19.64   | ug/L   | 95       |
| 104) 1,3,5-trimethylbenzene   | 6.442 | 105  | 172898   | 18.83   | ug/L   | 97       |
| 105) tert-butylbenzene        | 6.688 | 119  | 134674   | 18.28   | ug/L   | 95       |



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\renee\5.November\11-03-22\v1k38\  
 Data File : 1k01224.d  
 Acq On : 2 Nov 2022 8:49 am  
 Operator : taylors  
 Sample : CC11-20 Inst : GCMS K  
 Misc : MS63534,V1K0038,5,,,,,1  
 ALS Vial : 3 Sample Multiplier: 1

Quant Method : C:\msdchem\1\methods\M1K11.M  
 Quant Results File: M1K11.RES  
 Quant Time: Nov 02 23:53:28 2022  
 Quant Title : SW-846 Method 8260D, column Rtx-VMS 20m x 0.18 id x 1.0 um  
 QLast Update : Mon Oct 17 15:20:12 2022  
 Response via : Initial Calibration

|      | Compound                  | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|------|---------------------------|-------|------|----------|-------|--------|----------|
| 106) | 1,2,4-trimethylbenzene    | 6.746 | 105  | 177996   | 19.08 | ug/L   | 99       |
| 107) | sec-butylbenzene          | 6.825 | 105  | 213706   | 18.16 | ug/L   | 95       |
| 108) | 1,3-dichlorobenzene       | 6.992 | 146  | 77343    | 17.31 | ug/L   | 96       |
| 109) | p-isopropyltoluene        | 6.935 | 119  | 164095   | 18.22 | ug/L   | 97       |
| 110) | 1,4-dichlorobenzene       | 7.055 | 146  | 77346    | 17.45 | ug/L   | 96       |
| 111) | 1,2-dichlorobenzene       | 7.365 | 146  | 75664    | 17.36 | ug/L   | 93       |
| 112) | 1,2,3-trimethylbenzene    | 7.071 | 105  | 184061   | 18.93 | ug/L   | 97       |
| 113) | n-butylbenzene            | 7.244 | 92   | 113507   | 19.77 | ug/L # | 76       |
| 114) | 1,2-dibromo-3-chloropr... | 7.926 | 157  | 19481    | 19.64 | ug/L   | 98       |
| 115) | 1,3,5-trichlorobenzene    | 7.947 | 180  | 57861    | 17.90 | ug/L   | 99       |
| 116) | 1,2,4-trichlorobenzene    | 8.382 | 180  | 51362    | 18.88 | ug/L   | 100      |
| 117) | hexachlorobutadiene       | 8.361 | 225  | 19637    | 16.75 | ug/L   | 96       |
| 118) | naphthalene               | 8.592 | 128  | 205795   | 19.26 | ug/L   | 99       |
| 119) | 1,2,3-trichlorobenzene    | 8.707 | 180  | 50054    | 18.80 | ug/L   | 96       |
| 120) | hexachloroethane          | 7.344 | 119  | 27645    | 18.13 | ug/L   | 90       |
| 121) | benzyl chloride           | 7.239 | 126  | 27477    | 24.49 | ug/L   | 99       |
| 122) | 2-methylnaphthalene       | 9.252 | 142  | 44945    | 8.90  | ug/L   | 93       |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.6.13

7

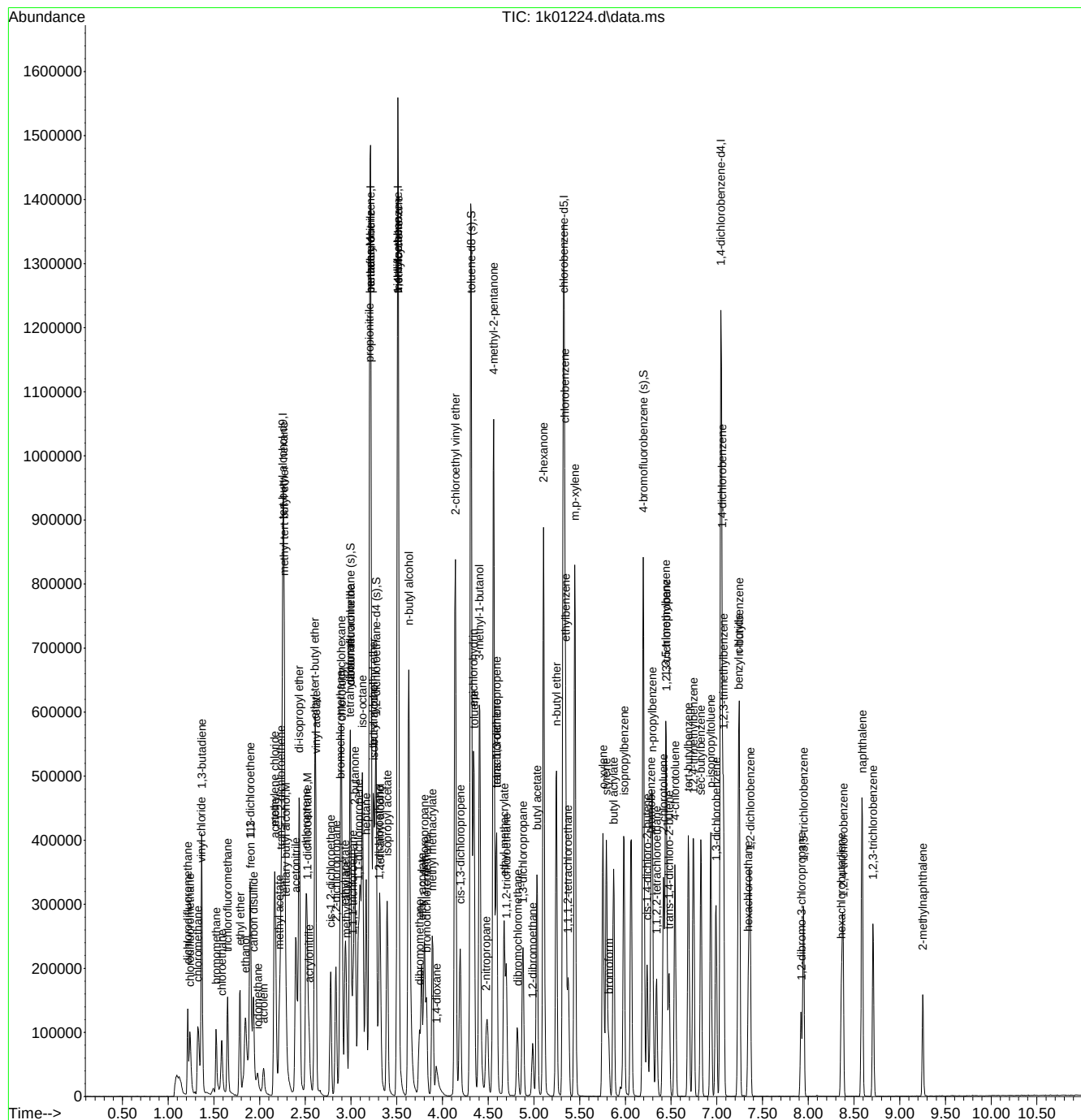


Quantitation Report (QT Reviewed)

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Data Path : C:\msdchem\1\data\renee\5.November\11-03-22\v1k38\
Data File : 1k01224.d
Acq On    : 2 Nov 2022    8:49 am
Operator  : taylors
Sample    : CC11-20                      Inst      :
Misc      : MS63534,V1K0038,5,,,,,1
ALS Vial  : 3      Sample Multiplier: 1
```

Inst : GCMS K

Quant Method : C:\msdchem\1\methods\M1K11.M  
Quant Results File: M1K11.RES  
Quant Time: Nov 02 23:53:28 2022  
Quant Title : SW-846 Method 8260D, column Rtx-VMS 20m x 0.18 id x 1.0 um  
QLast Update : Mon Oct 17 15:20:12 2022  
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number: V1K38-CC11

Method: SW846 8260D

Lab FileID: 1K01224.D

Analyst approved: 11/03/22 00:24 Renee Cofreros

Injection Time: 11/02/22 08:49

Supervisor approved: 11/03/22 14:49 MoHui Huang

| Parameter    | CAS     | Sig# | R.T.<br>(min.) | Reason           |
|--------------|---------|------|----------------|------------------|
| Acetonitrile | 75-05-8 |      | 2.39           | Overlapping peak |

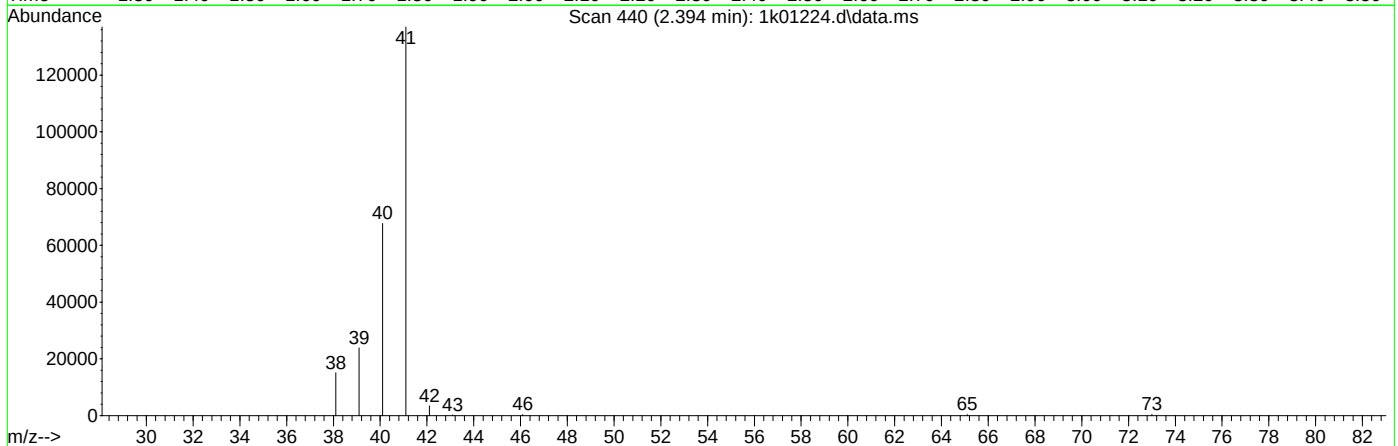
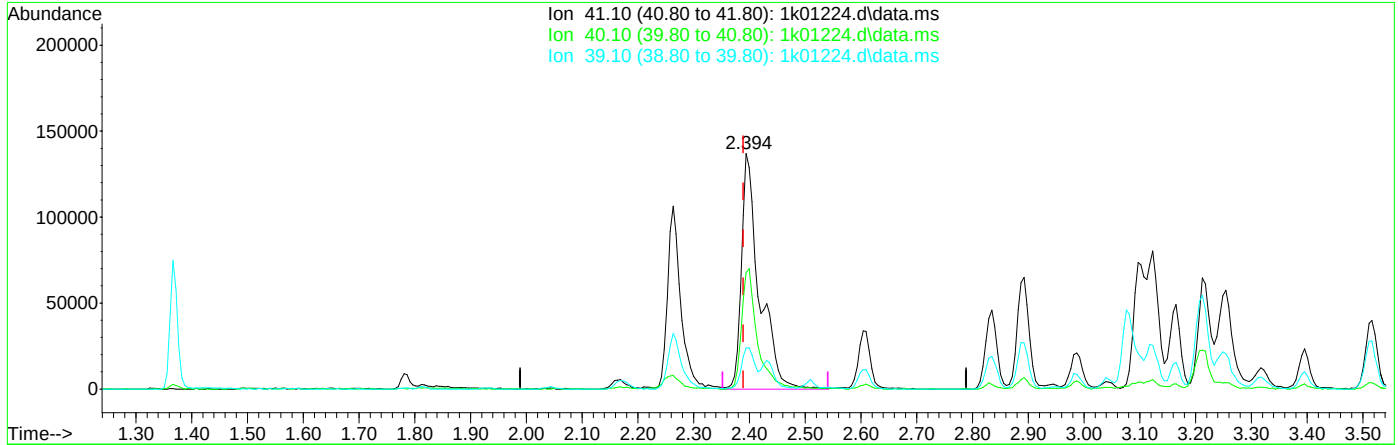
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## Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\renee\5.November\11-03-22\v1k38\  
Data File : 1k01224.d  
Acq On : 2 Nov 2022 8:49 am  
Operator : taylors  
Sample : CC11-20  
Misc : MS63534,V1K0038,5,,,,,1  
ALS Vial : 3 Sample Multiplier: 1

Inst : GCMS K

Quant Method : C:\msdchem\1\methods\M1K11.M  
Quant Results File: M1K11.RES  
Quant Time: Nov 02 10:19:30 2022  
Quant Title : SW-846 Method 8260D, column Rtx-VMS 20m x 0.18 id x 1.0 um  
QLast Update : Mon Oct 17 15:20:12 2022  
Response via : Initial Calibration



TIC: 1k01224.d\data.ms

(19) acetonitrile

2.394min (+0.005) 196.72ug/L

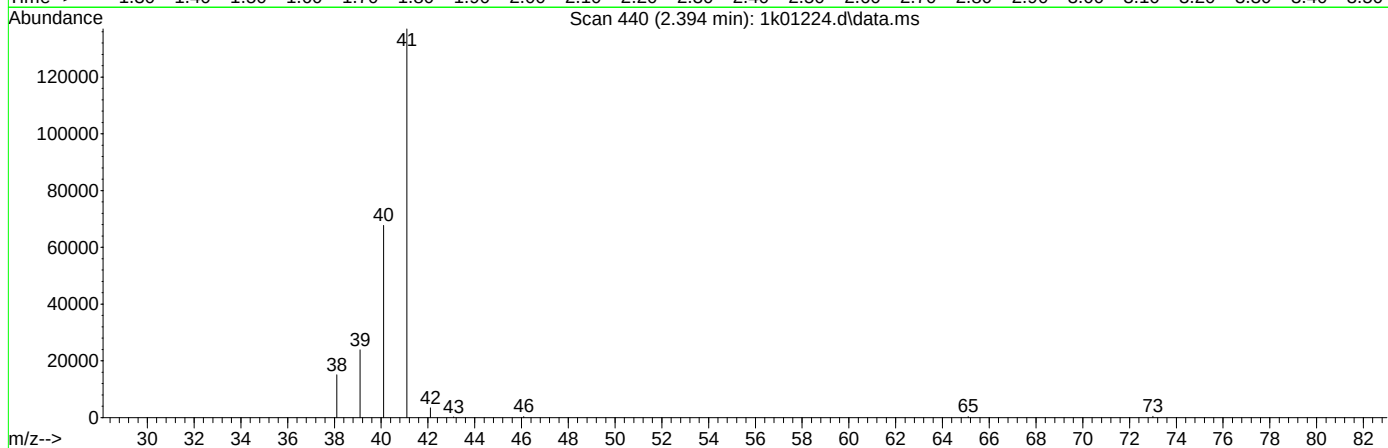
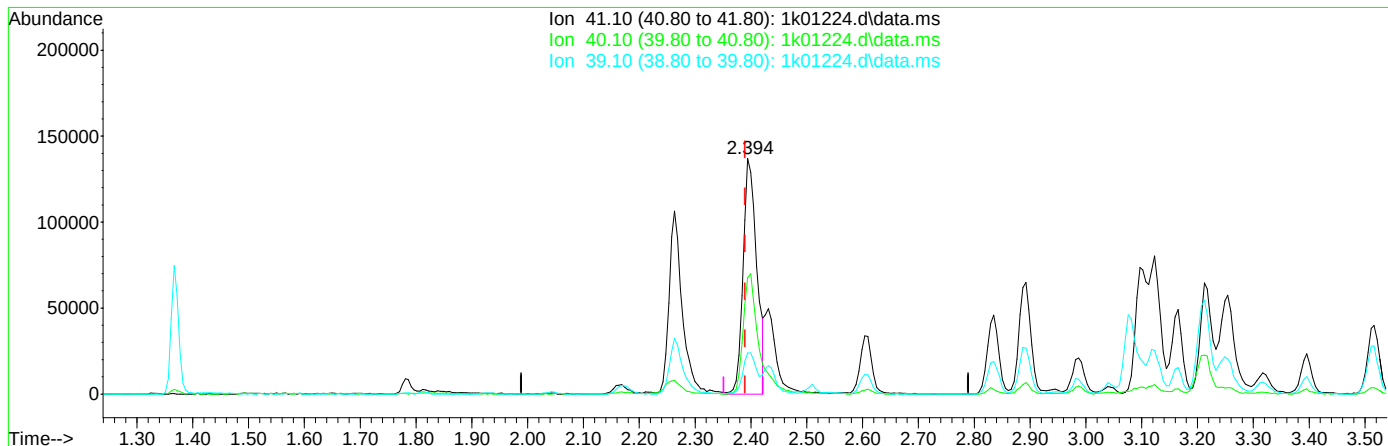
response 306041

| Ion   | Exp%  | Act%  |
|-------|-------|-------|
| 41.10 | 100   | 100   |
| 40.10 | 52.20 | 49.55 |
| 39.10 | 18.90 | 17.25 |
| 0.00  | 0.00  | 0.00  |

## Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\renee\5.November\11-03-22\v1k38\  
Data File : 1k01224.d  
Acq On : 2 Nov 2022 8:49 am  
Operator : taylors  
Sample : CC11-20  
Misc : MS63534,V1K0038,5,,,,,1  
ALS Vial : 3 Sample Multiplier: 1  
Inst : GCMS K

Quant Method : C:\msdchem\1\methods\M1K11.M  
Quant Results File: M1K11.RES  
Quant Time: Nov 02 10:19:30 2022  
Quant Title : SW-846 Method 8260D, column Rtx-VMS 20m x 0.18 id x 1.0 um  
QLast Update : Mon Oct 17 15:20:12 2022  
Response via : Initial Calibration



TIC: 1k01224.d\data.ms

(19) acetonitrile

2.394min (+0.005) 149.59ug/L m

response 232720

| Ion   | Exp%  | Act%  |
|-------|-------|-------|
| 41.10 | 100   | 100   |
| 40.10 | 52.20 | 49.46 |
| 39.10 | 18.90 | 17.43 |
| 0.00  | 0.00  | 0.00  |

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VU2015\  
 Data File : 1U49556.D  
 Acq On : 28 Oct 2022 5:41 pm  
 Operator : edwardd  
 Sample : ic2015-0.2  
 Misc : MS63374,V1U2015,5,,,1  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 01 14:43:15 2022

Quant Method : C:\MSDCHEM\1\METHODS\M1U2015.M

Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um

QLast Update : Mon Oct 31 14:19:53 2022

Response via : Initial Calibration

| Compound                      | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|---------|--------|----------|
| Internal Standards            |                |      |            |         |        |          |
| 1) tert butyl alcohol-d9      | 2.056          | 65   | 367965     | 500.00  | ug/L   | 0.00     |
| 5) pentafluorobenzene         | 2.994          | 168  | 474827     | 50.00   | ug/L   | 0.00     |
| 50) 1,4-difluorobenzene       | 3.293          | 114  | 656846     | 50.00   | ug/L   | 0.00     |
| 72) chlorobenzene-d5          | 5.091          | 117  | 611380     | 50.00   | ug/L   | 0.00     |
| 95) 1,4-dichlorobenzene-d4    | 6.827          | 152  | 279367     | 50.00   | ug/L   | 0.00     |
| System Monitoring Compounds   |                |      |            |         |        |          |
| 42) dibromofluoromethane (s)  | 2.774          | 113  | 244011     | 55.05   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 127 |      | Recovery = | 110.10% |        |          |
| 51) 1,2-dichloroethane-d4 (s) | 3.052          | 65   | 266895     | 52.52   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 130 |      | Recovery = | 105.04% |        |          |
| 73) toluene-d8 (s)            | 4.085          | 98   | 784753     | 52.38   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 80 - 120 |      | Recovery = | 104.76% |        |          |
| 96) 4-bromofluorobenzene (s)  | 5.967          | 95   | 269540     | 52.98   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 79 - 127 |      | Recovery = | 105.96% |        |          |
| Target Compounds              |                |      |            |         |        |          |
|                               |                |      |            |         | Qvalue |          |
| 7) dichlorodifluoromethane    | 1.070          | 85   | 701        | 0.20    | ug/L   | 82       |
| 13) trichlorofluoromethane    | 1.479          | 101  | 1840       | 0.23    | ug/L   | 87       |
| 16) freon 113                 | 1.725          | 151  | 596        | 0.23    | ug/L # | 76       |
| 17) 1,1-dichloroethene        | 1.704          | 61   | 980        | 0.27    | ug/L   | 93       |
| 28) ethyl tert-butyl ether    | 2.407          | 59   | 1611       | 0.25    | ug/L   | 89       |
| 31) chloroprene               | 2.302          | 53   | 992        | 0.31    | ug/L   | 89       |
| 36) cis-1,2-dichloroethene    | 2.564          | 96   | 676        | 0.26    | ug/L   | 87       |
| 39) bromochloromethane        | 2.664          | 128  | 294        | 0.22    | ug/L # | 73       |
| 53) benzene                   | 2.989          | 78   | 2403       | 0.25    | ug/L   | 96       |
| 56) isopropyl acetate         | 3.178          | 87   | 149        | 0.22    | ug/L # | 1        |
| 60) trichloroethene           | 3.282          | 130  | 757        | 0.24    | ug/L # | 86       |
| 64) 1,2-dichloropropane       | 3.571          | 63   | 403        | 0.18    | ug/L   | 95       |
| 67) bromodichloromethane      | 3.597          | 83   | 946        | 0.26    | ug/L   | 92       |
| 69) cis-1,3-dichloropropene   | 3.964          | 75   | 941        | 0.24    | ug/L # | 56       |
| 74) toluene                   | 4.116          | 92   | 1429       | 0.23    | ug/L   | 96       |
| 75) ethyl methacrylate        | 4.457          | 69   | 738        | 0.23    | ug/L # | 78       |
| 76) trans-1,3-dichloropropene | 4.363          | 75   | 885        | 0.24    | ug/L   | 78       |
| 77) 1,1,2-trichloroethane     | 4.462          | 83   | 373        | 0.20    | ug/L # | 57       |
| 80) 1,3-dichloropropane       | 4.651          | 76   | 791        | 0.22    | ug/L   | 86       |
| 81) butyl acetate             | 4.819          | 56   | 320        | 0.21    | ug/L # | 70       |
| 83) 1,2-dibromoethane         | 4.756          | 107  | 626        | 0.24    | ug/L   | 74       |
| 84) n-butyl ether             | 5.028          | 57   | 2080       | 0.24    | ug/L   | 77       |
| 85) chlorobenzene             | 5.102          | 112  | 1744       | 0.24    | ug/L # | 1        |
| 88) m,p-xylene                | 5.222          | 106  | 1998       | 0.43    | ug/L # | 73       |
| 89) o-xylene                  | 5.526          | 106  | 980        | 0.22    | ug/L # | 71       |
| 90) styrene                   | 5.563          | 104  | 1656       | 0.23    | ug/L   | 78       |
| 93) isopropylbenzene          | 5.757          | 105  | 2872       | 0.24    | ug/L   | 95       |
| 97) bromobenzene              | 6.046          | 156  | 593        | 0.20    | ug/L   | 82       |
| 102) 2-chlorotoluene          | 6.192          | 126  | 661        | 0.24    | ug/L # | 29       |
| 104) 1,3,5-trimethylbenzene   | 6.219          | 105  | 2280       | 0.26    | ug/L   | 92       |
| 105) tert-butylbenzene        | 6.475          | 119  | 1813       | 0.23    | ug/L   | 72       |
| 106) 1,2,4-trimethylbenzene   | 6.523          | 105  | 2086       | 0.25    | ug/L   | 94       |

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VU2015\  
Data File : 1U49556.D  
Acq On : 28 Oct 2022 5:41 pm  
Operator : edwardd  
Sample : ic2015-0.2  
Misc : MS63374,V1U2015,5,,,,1  
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 01 14:43:15 2022  
Quant Method : C:\MSDCHEM\1\METHODS\M1U2015.M  
Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um  
QLast Update : Mon Oct 31 14:19:53 2022  
Response via : Initial Calibration

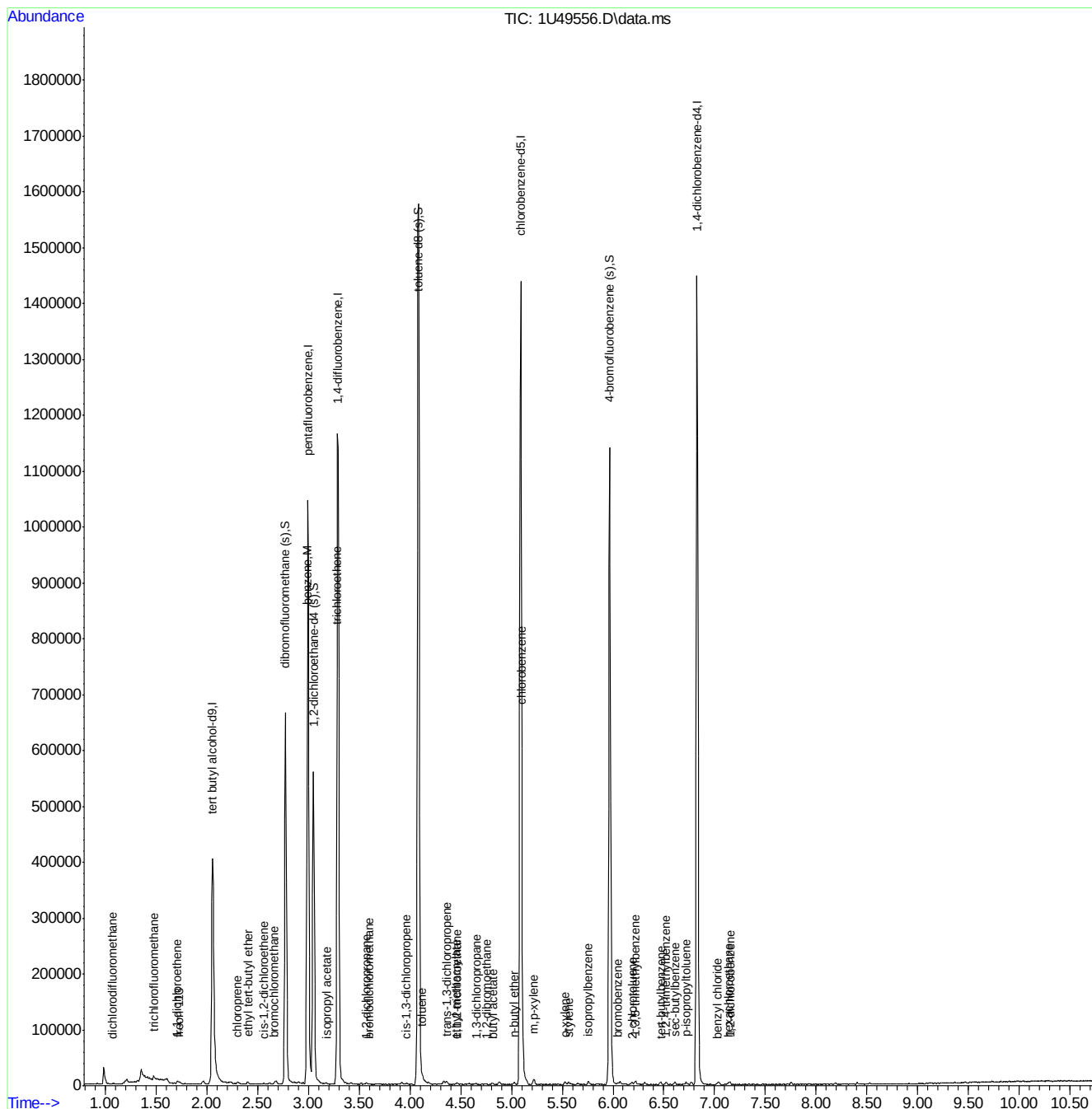
| Compound                 | R.T.  | QIon | Response | Conc | Units  | Dev(Min) |
|--------------------------|-------|------|----------|------|--------|----------|
| 107) sec-butylbenzene    | 6.612 | 105  | 2944     | 0.26 | ug/L   | 91       |
| 109) p-isopropyltoluene  | 6.722 | 119  | 2411     | 0.26 | ug/L   | 96       |
| 111) 1,2-dichlorobenzene | 7.152 | 146  | 1207     | 0.25 | ug/L   | 90       |
| 120) hexachloroethane    | 7.141 | 119  | 398      | 0.23 | ug/L # | 71       |
| 121) benzyl chloride     | 7.026 | 126  | 273      | 0.23 | ug/L # | 42       |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VU2015\  
Data File : 1U49556.D  
Acq On : 28 Oct 2022 5:41 pm  
Operator : edwardd  
Sample : ic2015-0.2  
Misc : MS63374,V1U2015,5,,,,1  
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 01 14:43:15 2022  
Quant Method : C:\MSDCHEM\1\METHODS\M1U2015.M  
Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um  
QLast Update : Mon Oct 31 14:19:53 2022  
Response via : Initial Calibration



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VU2015\  
 Data File : 1U49558.D  
 Acq On : 28 Oct 2022 6:10 pm  
 Operator : edwardd  
 Sample : ic2015-0.5  
 Misc : MS63374,V1U2015,5,,,1  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 02 11:15:10 2022

Quant Method : C:\MSDCHEM\1\METHODS\M1U2015.M

Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um

QLast Update : Mon Oct 31 14:19:53 2022

Response via : Initial Calibration

| Compound                      | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|---------|--------|----------|
| Internal Standards            |                |      |            |         |        |          |
| 1) tert butyl alcohol-d9      | 2.061          | 65   | 374139     | 500.00  | ug/L   | 0.00     |
| 5) pentafluorobenzene         | 2.999          | 168  | 479465     | 50.00   | ug/L   | 0.00     |
| 50) 1,4-difluorobenzene       | 3.293          | 114  | 669155     | 50.00   | ug/L   | 0.00     |
| 72) chlorobenzene-d5          | 5.091          | 117  | 629983     | 50.00   | ug/L   | 0.00     |
| 95) 1,4-dichlorobenzene-d4    | 6.827          | 152  | 289520     | 50.00   | ug/L   | 0.00     |
| System Monitoring Compounds   |                |      |            |         |        |          |
| 42) dibromofluoromethane (s)  | 2.779          | 113  | 244250     | 54.57   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 127 |      | Recovery = | 109.14% |        |          |
| 51) 1,2-dichloroethane-d4 (s) | 3.052          | 65   | 271714     | 52.49   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 130 |      | Recovery = | 104.98% |        |          |
| 73) toluene-d8 (s)            | 4.085          | 98   | 802795     | 52.00   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 80 - 120 |      | Recovery = | 104.00% |        |          |
| 96) 4-bromofluorobenzene (s)  | 5.967          | 95   | 275969     | 52.34   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 79 - 127 |      | Recovery = | 104.68% |        |          |
| Target Compounds              |                |      |            |         |        |          |
|                               |                |      |            |         |        | Qvalue   |
| 7) dichlorodifluoromethane    | 1.075          | 85   | 1762       | 0.51    | ug/L   | 90       |
| 9) vinyl chloride             | 1.206          | 62   | 1727       | 0.56    | ug/L   | 74       |
| 12) chloroethane              | 1.421          | 64   | 1437       | 0.61    | ug/L   | 79       |
| 13) trichlorofluoromethane    | 1.484          | 101  | 3968       | 0.48    | ug/L   | 85       |
| 14) ethyl ether               | 1.615          | 74   | 1090       | 0.65    | ug/L   | 75       |
| 16) freon 113                 | 1.725          | 151  | 1440       | 0.56    | ug/L   | 86       |
| 17) 1,1-dichloroethene        | 1.715          | 61   | 2212       | 0.60    | ug/L   | 92       |
| 18) acetone                   | 1.982          | 58   | 797        | 2.14    | ug/L # | 60       |
| 28) ethyl tert-butyl ether    | 2.407          | 59   | 3501       | 0.54    | ug/L   | 92       |
| 29) 2-butanone                | 2.831          | 72   | 924        | 2.15    | ug/L # | 82       |
| 30) 1,1-dichloroethane        | 2.318          | 63   | 2612       | 0.62    | ug/L   | 95       |
| 36) cis-1,2-dichloroethene    | 2.564          | 96   | 1564       | 0.59    | ug/L   | 79       |
| 39) bromochloromethane        | 2.664          | 128  | 635        | 0.48    | ug/L # | 43       |
| 44) 1,1,1-trichloroethane     | 2.805          | 97   | 2471       | 0.55    | ug/L   | 92       |
| 46) 1,1-dichloropropene       | 2.863          | 75   | 2100       | 0.61    | ug/L   | 93       |
| 49) tert-amyl alcohol         | 3.109          | 55   | 415        | 3.03    | ug/L # | 39       |
| 52) iso-octane                | 2.910          | 57   | 5388       | 0.63    | ug/L   | 96       |
| 53) benzene                   | 2.989          | 78   | 5761       | 0.59    | ug/L   | 94       |
| 55) heptane                   | 2.947          | 57   | 944        | 0.61    | ug/L # | 43       |
| 56) isopropyl acetate         | 3.183          | 87   | 373        | 0.53    | ug/L # | 61       |
| 59) ethyl acrylate            | 3.555          | 55   | 1862       | 0.54    | ug/L   | 89       |
| 60) trichloroethene           | 3.288          | 130  | 1835       | 0.58    | ug/L   | 93       |
| 62) 2-chloroethyl vinyl ether | 3.917          | 63   | 2858       | 1.98    | ug/L   | 88       |
| 63) methyl methacrylate       | 3.676          | 100  | 366        | 0.45    | ug/L # | 65       |
| 64) 1,2-dichloropropane       | 3.576          | 63   | 1279       | 0.56    | ug/L   | 77       |
| 66) dibromomethane            | 3.518          | 93   | 1003       | 0.54    | ug/L   | 84       |
| 67) bromodichloromethane      | 3.602          | 83   | 2136       | 0.57    | ug/L   | 97       |
| 69) cis-1,3-dichloropropene   | 3.964          | 75   | 2242       | 0.57    | ug/L   | 98       |
| 70) 4-methyl-2-pentanone      | 4.331          | 58   | 2744       | 2.39    | ug/L   | 85       |
| 74) toluene                   | 4.116          | 92   | 3776       | 0.59    | ug/L   | 97       |
| 75) ethyl methacrylate        | 4.452          | 69   | 1885       | 0.58    | ug/L   | 86       |
| 76) trans-1,3-dichloropropene | 4.368          | 75   | 2070       | 0.55    | ug/L   | 94       |



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VU2015\  
 Data File : 1U49558.D  
 Acq On : 28 Oct 2022 6:10 pm  
 Operator : edwardd  
 Sample : ic2015-0.5  
 Misc : MS63374,V1U2015,5,,,,1  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 02 11:15:10 2022

Quant Method : C:\MSDCHEM\1\METHODS\M1U2015.M

Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um

QLast Update : Mon Oct 31 14:19:53 2022

Response via : Initial Calibration

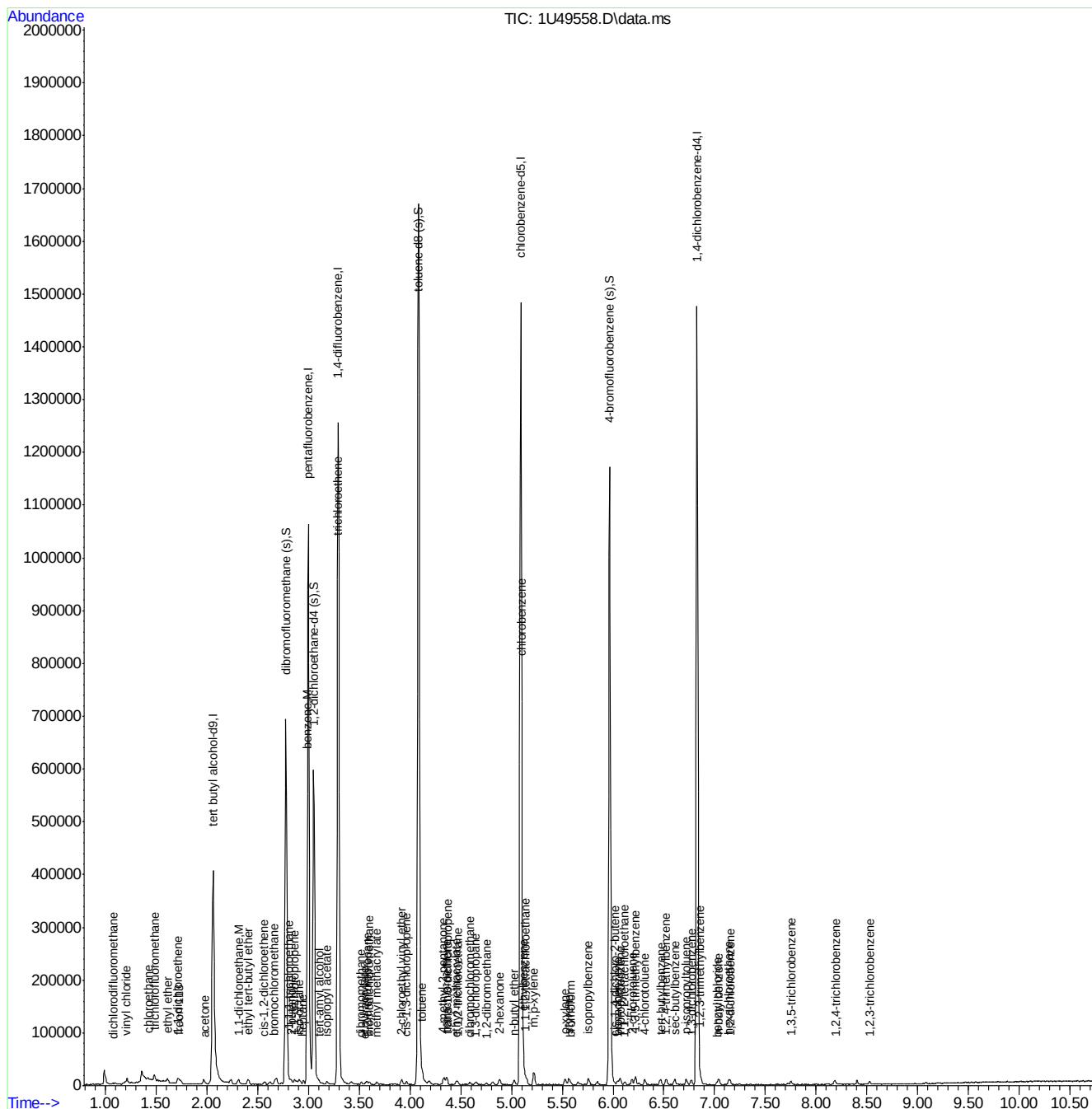
| Compound                      | R.T.  | QIon | Response | Conc | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|------|--------|----------|
| 77) 1,1,2-trichloroethane     | 4.467 | 83   | 904      | 0.46 | ug/L # | 78       |
| 78) tetrachloroethene         | 4.362 | 166  | 1733     | 0.51 | ug/L   | 98       |
| 79) 2-hexanone                | 4.881 | 58   | 2740     | 2.29 | ug/L   | 95       |
| 80) 1,3-dichloropropane       | 4.646 | 76   | 2061     | 0.56 | ug/L   | 90       |
| 82) dibromochloromethane      | 4.588 | 129  | 1679     | 0.54 | ug/L   | 91       |
| 83) 1,2-dibromoethane         | 4.750 | 107  | 1612     | 0.59 | ug/L   | 83       |
| 84) n-butyl ether             | 5.028 | 57   | 5030     | 0.57 | ug/L   | 95       |
| 85) chlorobenzene             | 5.102 | 112  | 4544     | 0.60 | ug/L # | 58       |
| 86) 1,1,1,2-tetrachloroethane | 5.138 | 131  | 1615     | 0.57 | ug/L # | 38       |
| 87) ethylbenzene              | 5.117 | 91   | 8128     | 0.65 | ug/L   | 96       |
| 88) m,p-xylene                | 5.222 | 106  | 5102     | 1.05 | ug/L   | 84       |
| 89) o-xylene                  | 5.526 | 106  | 2469     | 0.55 | ug/L   | 88       |
| 90) styrene                   | 5.563 | 104  | 3917     | 0.52 | ug/L   | 85       |
| 91) bromoform                 | 5.579 | 173  | 1357     | 0.53 | ug/L   | 89       |
| 93) isopropylbenzene          | 5.757 | 105  | 6655     | 0.54 | ug/L   | 98       |
| 94) cis-1,4-dichloro-2-butene | 6.014 | 88   | 716      | 0.52 | ug/L   | 80       |
| 97) bromobenzene              | 6.045 | 156  | 1459     | 0.47 | ug/L   | 84       |
| 98) 1,1,2,2-tetrachloroethane | 6.114 | 83   | 1800     | 0.56 | ug/L   | 98       |
| 101) n-propylbenzene          | 6.072 | 91   | 7987     | 0.60 | ug/L   | 97       |
| 102) 2-chlorotoluene          | 6.187 | 126  | 1630     | 0.56 | ug/L # | 78       |
| 103) 4-chlorotoluene          | 6.313 | 91   | 4619     | 0.60 | ug/L   | 97       |
| 104) 1,3,5-trimethylbenzene   | 6.218 | 105  | 4787     | 0.53 | ug/L   | 97       |
| 105) tert-butylbenzene        | 6.470 | 119  | 4691     | 0.58 | ug/L   | 94       |
| 106) 1,2,4-trimethylbenzene   | 6.523 | 105  | 4568     | 0.52 | ug/L   | 82       |
| 107) sec-butylbenzene         | 6.612 | 105  | 6642     | 0.57 | ug/L   | 96       |
| 108) 1,3-dichlorobenzene      | 6.774 | 146  | 3531     | 0.64 | ug/L   | 83       |
| 109) p-isopropyltoluene       | 6.722 | 119  | 5177     | 0.53 | ug/L   | 86       |
| 111) 1,2-dichlorobenzene      | 7.152 | 146  | 2698     | 0.54 | ug/L   | 78       |
| 112) 1,2,3-trimethylbenzene   | 6.858 | 105  | 4965     | 0.57 | ug/L   | 87       |
| 113) n-butylbenzene           | 7.042 | 92   | 2470     | 0.51 | ug/L   | 89       |
| 115) 1,3,5-trichlorobenzene   | 7.755 | 180  | 1780     | 0.52 | ug/L   | 94       |
| 116) 1,2,4-trichlorobenzene   | 8.190 | 180  | 1667     | 0.59 | ug/L   | 80       |
| 119) 1,2,3-trichlorobenzene   | 8.525 | 180  | 1516     | 0.54 | ug/L   | 91       |
| 120) hexachloroethane         | 7.141 | 119  | 866      | 0.48 | ug/L   | 84       |
| 121) benzyl chloride          | 7.026 | 126  | 599      | 0.48 | ug/L   | 86       |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VU2015\  
Data File : 1U49558.D  
Acq On : 28 Oct 2022 6:10 pm  
Operator : edwardd  
Sample : ic2015-0.5  
Misc : MS63374,V1U2015,5,,,,,1  
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 02 11:15:10 2022  
Quant Method : C:\MSDCHEM\1\METHODS\M1U2015.M  
Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um  
QLast Update : Mon Oct 31 14:19:53 2022  
Response via : Initial Calibration



M1U2015.M Wed Nov 02 17:15:16 2022

Page: 3

## 7.6.15

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VU2015\  
 Data File : 1U49560.D  
 Acq On : 28 Oct 2022 6:39 pm  
 Operator : edwardd  
 Sample : ic2015-1  
 Misc : MS63374,V1U2015,5,,,1  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 02 11:13:29 2022

Quant Method : C:\MSDCHEM\1\METHODS\M1U2015.M

Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um

QLast Update : Wed Nov 02 11:06:57 2022

Response via : Initial Calibration

| Compound                      | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|---------|--------|----------|
| Internal Standards            |                |      |            |         |        |          |
| 1) tert butyl alcohol-d9      | 2.056          | 65   | 363888     | 500.00  | ug/L   | 0.00     |
| 5) pentafluorobenzene         | 2.994          | 168  | 471449     | 50.00   | ug/L   | 0.00     |
| 50) 1,4-difluorobenzene       | 3.293          | 114  | 657475     | 50.00   | ug/L   | 0.00     |
| 72) chlorobenzene-d5          | 5.091          | 117  | 619641     | 50.00   | ug/L   | 0.00     |
| 95) 1,4-dichlorobenzene-d4    | 6.827          | 152  | 285743     | 50.00   | ug/L   | 0.00     |
| System Monitoring Compounds   |                |      |            |         |        |          |
| 42) dibromofluoromethane (s)  | 2.774          | 113  | 240862     | 52.65   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 127 |      | Recovery = | 105.30% |        |          |
| 51) 1,2-dichloroethane-d4 (s) | 3.052          | 65   | 273839     | 52.75   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 130 |      | Recovery = | 105.50% |        |          |
| 73) toluene-d8 (s)            | 4.085          | 98   | 792208     | 50.69   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 80 - 120 |      | Recovery = | 101.38% |        |          |
| 96) 4-bromofluorobenzene (s)  | 5.967          | 95   | 270501     | 50.60   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 79 - 127 |      | Recovery = | 101.20% |        |          |
| Target Compounds              |                |      |            |         |        |          |
| 2) ethanol                    | 1.652          | 45   | 3639       | 128.91  | ug/L   | 89       |
| 3) tertiary butyl alcohol     | 2.087          | 59   | 3248       | 6.60    | ug/L # | 87       |
| 4) 1,4-dioxane                | 3.723          | 88   | 703        | 18.87   | ug/L   | 98       |
| 6) chlorodifluoromethane      | 1.091          | 51   | 2913       | 1.21    | ug/L   | 99       |
| 7) dichlorodifluoromethane    | 1.065          | 85   | 4414       | 1.22    | ug/L   | 99       |
| 8) chloromethane              | 1.170          | 50   | 3222       | 1.30    | ug/L   | 94       |
| 9) vinyl chloride             | 1.201          | 62   | 3988       | 1.21    | ug/L   | 95       |
| 12) chloroethane              | 1.411          | 64   | 2945       | 1.17    | ug/L   | 88       |
| 13) trichlorofluoromethane    | 1.479          | 101  | 9814       | 1.16    | ug/L   | 99       |
| 14) ethyl ether               | 1.605          | 74   | 1973       | 1.08    | ug/L   | 94       |
| 16) freon 113                 | 1.715          | 151  | 3076       | 1.09    | ug/L   | 87       |
| 17) 1,1-dichloroethene        | 1.704          | 61   | 4296       | 1.05    | ug/L   | 98       |
| 18) acetone                   | 1.972          | 58   | 1618       | 4.76    | ug/L   | 88       |
| 21) carbon disulfide          | 1.736          | 76   | 9019       | 1.20    | ug/L   | 93       |
| 24) methyl tert butyl ether   | 2.071          | 73   | 8224       | 1.14    | ug/L   | 90       |
| 25) trans-1,2-dichloroethene  | 2.035          | 61   | 6254       | 0.82    | ug/L   | 91       |
| 27) di-isopropyl ether        | 2.234          | 45   | 7583       | 1.16    | ug/L   | 95       |
| 28) ethyl tert-butyl ether    | 2.402          | 59   | 7813       | 1.12    | ug/L   | 96       |
| 29) 2-butanone                | 2.826          | 72   | 2085       | 4.64    | ug/L # | 81       |
| 30) 1,1-dichloroethane        | 2.312          | 63   | 5077       | 1.11    | ug/L   | 94       |
| 33) vinyl acetate             | 2.407          | 86   | 564        | 1.01    | ug/L # | 33       |
| 35) 2,2-dichloropropane       | 2.617          | 77   | 5138       | 1.23    | ug/L   | 99       |
| 36) cis-1,2-dichloroethene    | 2.564          | 96   | 3329       | 1.15    | ug/L   | 91       |
| 38) methyl acrylate           | 2.737          | 85   | 642        | 1.11    | ug/L # | 90       |
| 39) bromochloromethane        | 2.659          | 128  | 1602       | 1.16    | ug/L   | 94       |
| 41) chloroform                | 2.685          | 47   | 2027       | 0.68    | ug/L   | 83       |
| 44) 1,1,1-trichloroethane     | 2.800          | 97   | 5311       | 1.12    | ug/L   | 91       |
| 46) 1,1-dichloropropene       | 2.863          | 75   | 4371       | 1.17    | ug/L   | 95       |
| 47) carbon tetrachloride      | 2.769          | 117  | 6203       | 1.30    | ug/L # | 83       |
| 48) isobutyl alcohol          | 3.026          | 43   | 4067       | 13.75   | ug/L   | 96       |
| 49) tert-amyl alcohol         | 3.099          | 55   | 1056       | 6.37    | ug/L # | 83       |
| 52) iso-octane                | 2.905          | 57   | 10966      | 1.17    | ug/L   | 95       |

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VU2015\  
 Data File : 1U49560.D  
 Acq On : 28 Oct 2022 6:39 pm  
 Operator : edwardd  
 Sample : ic2015-1  
 Misc : MS63374,V1U2015,5,,,1  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 02 11:13:29 2022

Quant Method : C:\MSDCHEM\1\METHODS\M1U2015.M

Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um

QLast Update : Wed Nov 02 11:06:57 2022

Response via : Initial Calibration

| Compound                       | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-------|--------|----------|
| 53) benzene                    | 2.984 | 78   | 11915    | 1.13  | ug/L   | 98       |
| 55) heptane                    | 2.947 | 57   | 1904     | 1.14  | ug/L   | 78       |
| 56) isopropyl acetate          | 3.183 | 87   | 817      | 1.15  | ug/L # | 88       |
| 57) 1,2-dichloroethane         | 3.083 | 62   | 4453     | 1.21  | ug/L   | 94       |
| 58) n-butyl alcohol            | 3.419 | 56   | 6238     | 64.96 | ug/L   | 94       |
| 59) ethyl acrylate             | 3.555 | 55   | 4540     | 1.24  | ug/L   | 95       |
| 60) trichloroethene            | 3.282 | 130  | 3467     | 1.05  | ug/L   | 91       |
| 62) 2-chloroethyl vinyl ether  | 3.917 | 63   | 7049     | 5.14  | ug/L   | 96       |
| 63) methyl methacrylate        | 3.670 | 100  | 924      | 1.12  | ug/L   | 94       |
| 64) 1,2-dichloropropane        | 3.576 | 63   | 2891     | 1.21  | ug/L   | 88       |
| 66) dibromomethane             | 3.518 | 93   | 2255     | 1.17  | ug/L   | 88       |
| 67) bromodichloromethane       | 3.597 | 83   | 4559     | 1.14  | ug/L   | 97       |
| 68) epichlorohydrin            | 4.111 | 57   | 1897     | 5.62  | ug/L # | 69       |
| 69) cis-1,3-dichloropropene    | 3.964 | 75   | 4576     | 1.10  | ug/L   | 86       |
| 70) 4-methyl-2-pentanone       | 4.336 | 58   | 6151     | 5.02  | ug/L   | 96       |
| 74) toluene                    | 4.111 | 92   | 7730     | 1.13  | ug/L # | 72       |
| 75) ethyl methacrylate         | 4.452 | 69   | 4072     | 1.18  | ug/L   | 83       |
| 76) trans-1,3-dichloropropene  | 4.363 | 75   | 4183     | 1.08  | ug/L   | 87       |
| 77) 1,1,2-trichloroethane      | 4.467 | 83   | 2699     | 1.33  | ug/L # | 85       |
| 78) tetrachloroethene          | 4.363 | 166  | 3594     | 1.03  | ug/L   | 94       |
| 79) 2-hexanone                 | 4.882 | 58   | 6574     | 5.11  | ug/L   | 94       |
| 80) 1,3-dichloropropane        | 4.651 | 76   | 4620     | 1.19  | ug/L   | 94       |
| 82) dibromochloromethane       | 4.588 | 129  | 3985     | 1.21  | ug/L   | 96       |
| 83) 1,2-dibromoethane          | 4.745 | 107  | 3344     | 1.14  | ug/L   | 92       |
| 84) n-butyl ether              | 5.028 | 57   | 10816    | 1.15  | ug/L   | 95       |
| 85) chlorobenzene              | 5.102 | 112  | 9091     | 1.14  | ug/L # | 72       |
| 86) 1,1,1,2-tetrachloroethane  | 5.144 | 131  | 3351     | 1.16  | ug/L   | 83       |
| 87) ethylbenzene               | 5.118 | 91   | 15899    | 1.19  | ug/L   | 94       |
| 88) m,p-xylene                 | 5.222 | 106  | 10547    | 2.18  | ug/L   | 97       |
| 89) o-xylene                   | 5.526 | 106  | 4828     | 1.05  | ug/L # | 77       |
| 90) styrene                    | 5.563 | 104  | 8209     | 1.09  | ug/L   | 98       |
| 91) bromoform                  | 5.584 | 173  | 3060     | 1.19  | ug/L   | 97       |
| 93) isopropylbenzene           | 5.757 | 105  | 13776    | 1.09  | ug/L   | 95       |
| 94) cis-1,4-dichloro-2-butene  | 6.009 | 88   | 1575     | 1.15  | ug/L   | 85       |
| 97) bromobenzene               | 6.051 | 156  | 3793     | 1.16  | ug/L   | 84       |
| 98) 1,1,2,2-tetrachloroethane  | 6.114 | 83   | 4846     | 1.34  | ug/L   | 85       |
| 101) n-propylbenzene           | 6.066 | 91   | 16317    | 1.16  | ug/L   | 91       |
| 102) 2-chlorotoluene           | 6.187 | 126  | 3276     | 1.08  | ug/L   | 85       |
| 103) 4-chlorotoluene           | 6.313 | 91   | 9651     | 1.17  | ug/L   | 95       |
| 104) 1,3,5-trimethylbenzene    | 6.219 | 105  | 10280    | 1.09  | ug/L   | 98       |
| 105) tert-butylbenzene         | 6.465 | 119  | 9248     | 1.09  | ug/L   | 92       |
| 106) 1,2,4-trimethylbenzene    | 6.523 | 105  | 10112    | 1.11  | ug/L   | 94       |
| 107) sec-butylbenzene          | 6.607 | 105  | 13011    | 1.06  | ug/L   | 96       |
| 108) 1,3-dichlorobenzene       | 6.769 | 146  | 6281     | 1.08  | ug/L   | 89       |
| 109) p-isopropyltoluene        | 6.722 | 119  | 9866     | 0.99  | ug/L   | 94       |
| 110) 1,4-dichlorobenzene       | 6.837 | 146  | 6706     | 1.13  | ug/L   | 70       |
| 111) 1,2-dichlorobenzene       | 7.152 | 146  | 5790     | 1.09  | ug/L   | 90       |
| 112) 1,2,3-trimethylbenzene    | 6.858 | 105  | 10141    | 1.12  | ug/L   | 95       |
| 113) n-butylbenzene            | 7.042 | 92   | 5484     | 1.11  | ug/L   | 90       |
| 114) 1,2-dibromo-3-chloropr... | 7.723 | 157  | 1116     | 1.09  | ug/L   | 97       |

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VU2015\  
Data File : 1U49560.D  
Acq On : 28 Oct 2022 6:39 pm  
Operator : edwardd  
Sample : ic2015-1  
Misc : MS63374,V1U2015,5,,,,1  
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 02 11:13:29 2022  
Quant Method : C:\MSDCHEM\1\METHODS\M1U2015.M  
Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um  
QLast Update : Wed Nov 02 11:06:57 2022  
Response via : Initial Calibration

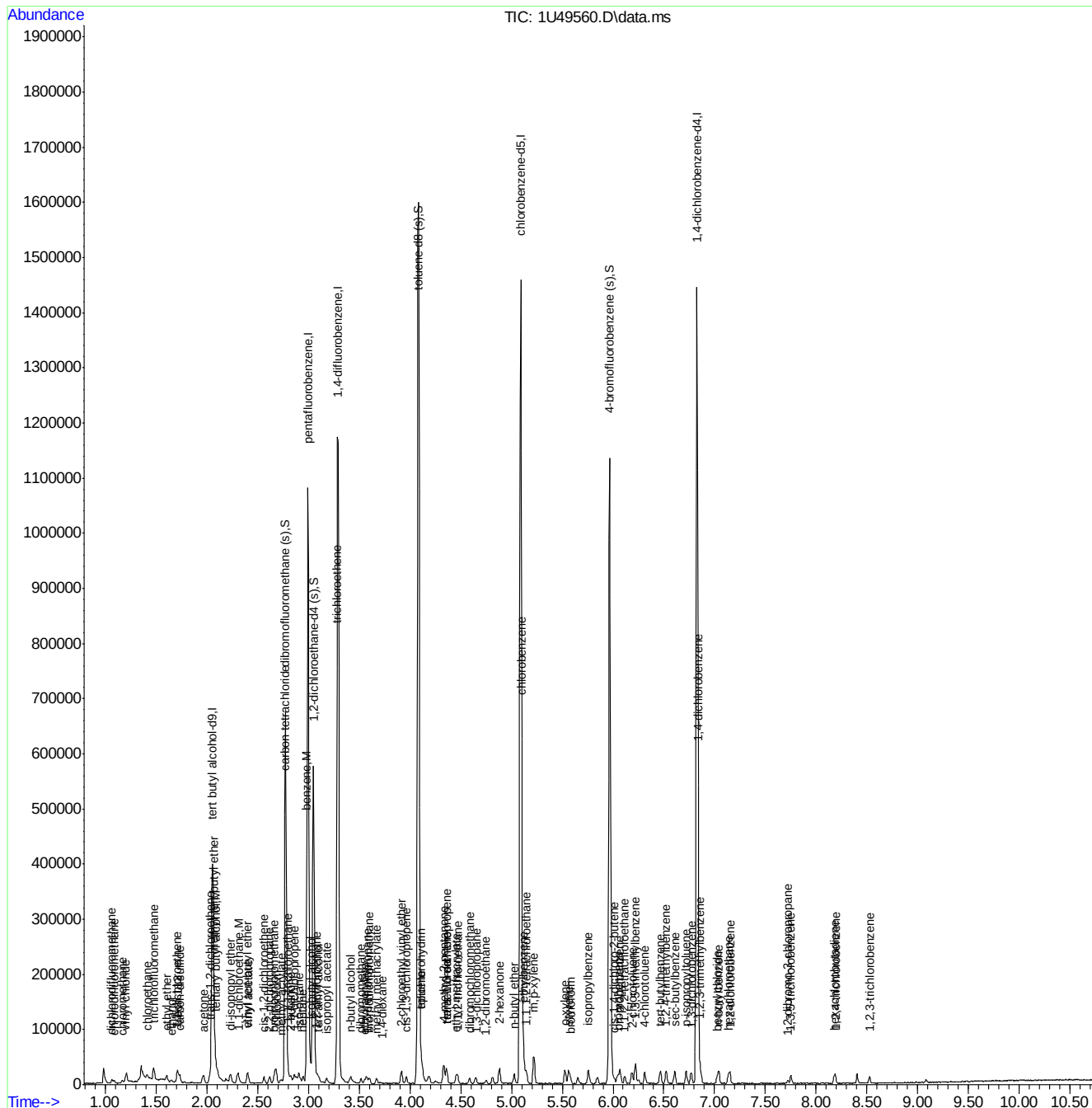
| Compound                    | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|-----------------------------|-------|------|----------|------|-------|----------|
| 115) 1,3,5-trichlorobenzene | 7.750 | 180  | 3742     | 1.01 | ug/L  | 98       |
| 116) 1,2,4-trichlorobenzene | 8.190 | 180  | 2970     | 0.98 | ug/L  | 96       |
| 117) hexachlorobutadiene    | 8.179 | 225  | 1582     | 1.06 | ug/L  | 86       |
| 119) 1,2,3-trichlorobenzene | 8.525 | 180  | 3126     | 1.03 | ug/L  | 93       |
| 120) hexachloroethane       | 7.136 | 119  | 1721     | 0.96 | ug/L  | 91       |
| 121) benzyl chloride        | 7.026 | 126  | 1335     | 1.08 | ug/L  | 91       |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VU2015\  
Data File : 1U49560.D  
Acq On : 28 Oct 2022 6:39 pm  
Operator : edwardd  
Sample : ic2015-1  
Misc : MS63374,V1U2015,5,,,,,1  
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 02 11:13:29 2022  
Quant Method : C:\MSDCHEM\1\METHODS\M1U2015.M  
Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um  
QLast Update : Wed Nov 02 11:06:57 2022  
Response via : Initial Calibration



M1U2015.M Wed Nov 02 17:15:18 2022

Page: 4

## 7.6.16

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VU2015\  
 Data File : 1U49562.D  
 Acq On : 28 Oct 2022 7:08 pm  
 Operator : edwardd  
 Sample : ic2015-2  
 Misc : MS63374,V1U2015,5,,,1  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 01 14:47:06 2022

Quant Method : C:\MSDCHEM\1\METHODS\M1U2015.M

Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um

QLast Update : Mon Oct 31 14:19:53 2022

Response via : Initial Calibration

| Compound                      | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|---------|--------|----------|
| Internal Standards            |                |      |            |         |        |          |
| 1) tert butyl alcohol-d9      | 2.056          | 65   | 368503     | 500.00  | ug/L   | 0.00     |
| 5) pentafluorobenzene         | 2.999          | 168  | 469150     | 50.00   | ug/L   | 0.00     |
| 50) 1,4-difluorobenzene       | 3.293          | 114  | 652170     | 50.00   | ug/L   | 0.00     |
| 72) chlorobenzene-d5          | 5.091          | 117  | 621158     | 50.00   | ug/L   | 0.00     |
| 95) 1,4-dichlorobenzene-d4    | 6.827          | 152  | 282883     | 50.00   | ug/L   | 0.00     |
| System Monitoring Compounds   |                |      |            |         |        |          |
| 42) dibromofluoromethane (s)  | 2.779          | 113  | 236576     | 54.02   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 127 |      | Recovery = | 108.04% |        |          |
| 51) 1,2-dichloroethane-d4 (s) | 3.052          | 65   | 270699     | 53.65   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 130 |      | Recovery = | 107.30% |        |          |
| 73) toluene-d8 (s)            | 4.085          | 98   | 790226     | 51.92   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 80 - 120 |      | Recovery = | 103.84% |        |          |
| 96) 4-bromofluorobenzene (s)  | 5.967          | 95   | 273038     | 53.00   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 79 - 127 |      | Recovery = | 106.00% |        |          |
| Target Compounds              |                |      |            |         |        |          |
| 2) ethanol                    | 1.652          | 45   | 6106       | 248.59  | ug/L   | 95       |
| 3) tertiary butyl alcohol     | 2.092          | 59   | 5124       | 11.44   | ug/L # | 92       |
| 4) 1,4-dioxane                | 3.712          | 88   | 1447       | 36.61   | ug/L   | 98       |
| 6) chlorodifluoromethane      | 1.091          | 51   | 4940       | 2.29    | ug/L   | 99       |
| 7) dichlorodifluoromethane    | 1.070          | 85   | 7812       | 2.31    | ug/L   | 98       |
| 8) chloromethane              | 1.170          | 50   | 5483       | 2.46    | ug/L   | 96       |
| 9) vinyl chloride             | 1.206          | 62   | 7451       | 2.46    | ug/L   | 90       |
| 10) 1,3-butadiene             | 1.212          | 39   | 4875       | 2.62    | ug/L   | 90       |
| 11) bromomethane              | 1.358          | 96   | 7624       | 2.63    | ug/L # | 89       |
| 12) chloroethane              | 1.416          | 64   | 5750       | 2.50    | ug/L   | 98       |
| 13) trichlorofluoromethane    | 1.479          | 101  | 18811      | 2.35    | ug/L   | 99       |
| 14) ethyl ether               | 1.610          | 74   | 3709       | 2.27    | ug/L   | 95       |
| 15) acrolein                  | 1.851          | 56   | 1058       | 2.13    | ug/L   | 87       |
| 16) freon 113                 | 1.725          | 151  | 5563       | 2.21    | ug/L   | 98       |
| 17) 1,1-dichloroethene        | 1.710          | 61   | 7934       | 2.20    | ug/L   | 98       |
| 18) acetone                   | 1.977          | 58   | 2463       | 6.75    | ug/L   | 88       |
| 19) acetonitrile              | 2.192          | 41   | 6139       | 24.60   | ug/L   | 85       |
| 20) iodomethane               | 1.783          | 142  | 2400       | 1.06    | ug/L   | 85       |
| 21) carbon disulfide          | 1.736          | 76   | 16240      | 2.44    | ug/L   | 97       |
| 22) methylene chloride        | 1.967          | 84   | 4971       | 2.26    | ug/L   | 85       |
| 23) methyl acetate            | 2.029          | 74   | 923        | 1.80    | ug/L # | 63       |
| 24) methyl tert butyl ether   | 2.077          | 73   | 14221      | 2.14    | ug/L   | 88       |
| 25) trans-1,2-dichloroethene  | 2.035          | 61   | 9555       | 3.02    | ug/L   | 97       |
| 26) hexane                    | 2.066          | 57   | 11408      | 2.46    | ug/L   | 96       |
| 27) di-isopropyl ether        | 2.234          | 45   | 13130      | 2.19    | ug/L   | 97       |
| 28) ethyl tert-butyl ether    | 2.402          | 59   | 13157      | 2.06    | ug/L   | 91       |
| 29) 2-butanone                | 2.832          | 72   | 3560       | 8.47    | ug/L   | 91       |
| 30) 1,1-dichloroethane        | 2.313          | 63   | 9299       | 2.24    | ug/L   | 95       |
| 31) chloroprene               | 2.302          | 53   | 7887       | 2.47    | ug/L   | 89       |
| 32) acrylonitrile             | 2.328          | 52   | 1595       | 2.32    | ug/L   | 90       |
| 33) vinyl acetate             | 2.407          | 86   | 1019       | 1.96    | ug/L # | 92       |
| 34) ethyl acetate             | 2.727          | 70   | 732        | 2.45    | ug/L # | 74       |



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VU2015\  
 Data File : 1U49562.D  
 Acq On : 28 Oct 2022 7:08 pm  
 Operator : edwardd  
 Sample : ic2015-2  
 Misc : MS63374,V1U2015,5,,,1  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 01 14:47:06 2022

Quant Method : C:\MSDCHEM\1\METHODS\M1U2015.M

Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um

QLast Update : Mon Oct 31 14:19:53 2022

Response via : Initial Calibration

| Compound                      | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|--------|--------|----------|
| 35) 2,2-dichloropropane       | 2.622 | 77   | 8726     | 2.34   | ug/L   | 93       |
| 36) cis-1,2-dichloroethene    | 2.564 | 96   | 5407     | 2.09   | ug/L   | 92       |
| 37) propionitrile             | 2.989 | 54   | 9114     | 24.06  | ug/L # | 26       |
| 38) methyl acrylate           | 2.737 | 85   | 1131     | 2.03   | ug/L # | 82       |
| 39) bromochloromethane        | 2.664 | 128  | 2791     | 2.14   | ug/L   | 92       |
| 40) tetrahydrofuran           | 2.774 | 71   | 912      | 2.41   | ug/L   | 90       |
| 41) chloroform                | 2.685 | 47   | 3040     | 2.60   | ug/L   | 94       |
| 44) 1,1,1-trichloroethane     | 2.805 | 97   | 9553     | 2.16   | ug/L   | 96       |
| 45) cyclohexane               | 2.674 | 84   | 8615     | 2.31   | ug/L   | 93       |
| 46) 1,1-dichloropropene       | 2.863 | 75   | 7545     | 2.26   | ug/L   | 97       |
| 47) carbon tetrachloride      | 2.769 | 117  | 10065    | 2.50   | ug/L # | 82       |
| 48) isobutyl alcohol          | 3.031 | 43   | 6696     | 23.49  | ug/L   | 92       |
| 49) tert-amyl alcohol         | 3.110 | 55   | 1703     | 12.73  | ug/L # | 64       |
| 52) iso-octane                | 2.910 | 57   | 18556    | 2.21   | ug/L   | 99       |
| 53) benzene                   | 2.989 | 78   | 20083    | 2.10   | ug/L   | 97       |
| 54) tert-amyl methyl ether    | 3.026 | 73   | 13793    | 1.99   | ug/L   | 94       |
| 55) heptane                   | 2.947 | 57   | 3065     | 2.03   | ug/L   | 85       |
| 56) isopropyl acetate         | 3.183 | 87   | 1351     | 1.98   | ug/L # | 71       |
| 57) 1,2-dichloroethane        | 3.089 | 62   | 7934     | 2.44   | ug/L   | 95       |
| 58) n-butyl alcohol           | 3.419 | 56   | 9746     | 113.15 | ug/L   | 89       |
| 59) ethyl acrylate            | 3.555 | 55   | 6664     | 1.99   | ug/L   | 92       |
| 60) trichloroethene           | 3.288 | 130  | 6024     | 1.96   | ug/L   | 95       |
| 61) 2-nitropropane            | 4.253 | 41   | 2182     | 2.57   | ug/L   | 77       |
| 62) 2-chloroethyl vinyl ether | 3.917 | 63   | 11754    | 8.36   | ug/L   | 96       |
| 63) methyl methacrylate       | 3.671 | 100  | 1475     | 1.86   | ug/L # | 86       |
| 64) 1,2-dichloropropane       | 3.576 | 63   | 4400     | 1.96   | ug/L   | 94       |
| 65) methylcyclohexane         | 3.293 | 55   | 8476     | 2.97   | ug/L   | 77       |
| 66) dibromomethane            | 3.518 | 93   | 3658     | 2.01   | ug/L   | 98       |
| 67) bromodichloromethane      | 3.602 | 83   | 7439     | 2.02   | ug/L   | 94       |
| 68) epichlorohydrin           | 4.106 | 57   | 3743     | 12.32  | ug/L # | 31       |
| 69) cis-1,3-dichloropropene   | 3.964 | 75   | 7645     | 1.98   | ug/L   | 93       |
| 70) 4-methyl-2-pentanone      | 4.331 | 58   | 9297     | 8.31   | ug/L   | 97       |
| 71) 3-methyl-1-butanol        | 4.184 | 70   | 3782     | 41.21  | ug/L   | 92       |
| 74) toluene                   | 4.116 | 92   | 13021    | 2.06   | ug/L # | 83       |
| 75) ethyl methacrylate        | 4.452 | 69   | 6267     | 1.96   | ug/L   | 91       |
| 76) trans-1,3-dichloropropene | 4.363 | 75   | 7218     | 1.95   | ug/L   | 96       |
| 77) 1,1,2-trichloroethane     | 4.467 | 83   | 3725     | 1.93   | ug/L # | 85       |
| 78) tetrachloroethene         | 4.363 | 166  | 6199     | 1.84   | ug/L   | 96       |
| 79) 2-hexanone                | 4.882 | 58   | 10257    | 8.71   | ug/L   | 91       |
| 80) 1,3-dichloropropane       | 4.646 | 76   | 6973     | 1.92   | ug/L   | 98       |
| 81) butyl acetate             | 4.814 | 56   | 3519     | 2.24   | ug/L # | 82       |
| 82) dibromochloromethane      | 4.588 | 129  | 5873     | 1.91   | ug/L   | 97       |
| 83) 1,2-dibromoethane         | 4.751 | 107  | 5329     | 1.97   | ug/L   | 92       |
| 84) n-butyl ether             | 5.028 | 57   | 17227    | 1.97   | ug/L   | 97       |
| 85) chlorobenzene             | 5.102 | 112  | 14277    | 1.91   | ug/L   | 79       |
| 86) 1,1,1,2-tetrachloroethane | 5.149 | 131  | 5267     | 1.88   | ug/L   | 95       |
| 87) ethylbenzene              | 5.118 | 91   | 25725    | 2.08   | ug/L   | 97       |
| 88) m,p-xylene                | 5.222 | 106  | 18092    | 3.79   | ug/L   | 98       |
| 89) o-xylene                  | 5.527 | 106  | 8772     | 1.98   | ug/L   | 90       |
| 90) styrene                   | 5.563 | 104  | 13487    | 1.81   | ug/L   | 88       |



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VU2015\  
 Data File : 1U49562.D  
 Acq On : 28 Oct 2022 7:08 pm  
 Operator : edwardd  
 Sample : ic2015-2  
 Misc : MS63374,V1U2015,5,,,1  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 01 14:47:06 2022

Quant Method : C:\MSDCHEM\1\METHODS\M1U2015.M

Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um

QLast Update : Mon Oct 31 14:19:53 2022

Response via : Initial Calibration

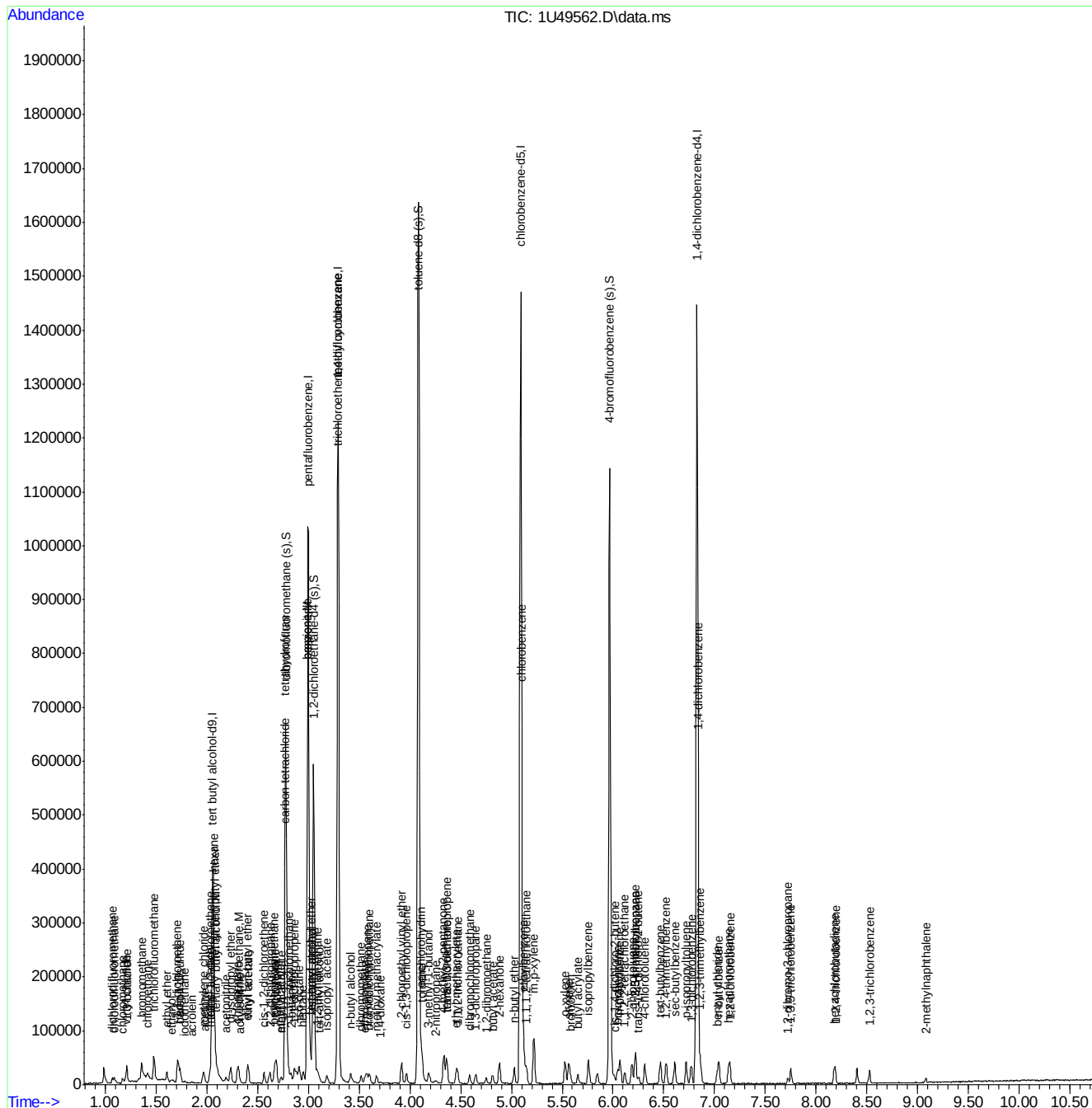
| Compound                       | R.T.  | QIon | Response | Conc | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|------|--------|----------|
| 91) bromoform                  | 5.584 | 173  | 4131     | 1.65 | ug/L   | 98       |
| 92) butyl acrylate             | 5.652 | 55   | 8843     | 2.06 | ug/L   | 96       |
| 93) isopropylbenzene           | 5.757 | 105  | 23621    | 1.96 | ug/L   | 97       |
| 94) cis-1,4-dichloro-2-butene  | 6.014 | 88   | 2440     | 1.81 | ug/L   | 88       |
| 97) bromobenzene               | 6.046 | 156  | 6213     | 2.04 | ug/L   | 90       |
| 98) 1,1,2,2-tetrachloroethane  | 6.114 | 83   | 7318     | 2.33 | ug/L   | 99       |
| 99) trans-1,4-dichloro-2-b...  | 6.250 | 53   | 1774     | 2.32 | ug/L # | 70       |
| 100) 1,2,3-trichloropropane    | 6.219 | 110  | 2257     | 2.03 | ug/L   | 84       |
| 101) n-propylbenzene           | 6.067 | 91   | 26950    | 2.08 | ug/L   | 94       |
| 102) 2-chlorotoluene           | 6.187 | 126  | 5503     | 1.94 | ug/L # | 85       |
| 103) 4-chlorotoluene           | 6.313 | 91   | 16433    | 2.19 | ug/L   | 96       |
| 104) 1,3,5-trimethylbenzene    | 6.219 | 105  | 17397    | 1.98 | ug/L   | 99       |
| 105) tert-butylbenzene         | 6.465 | 119  | 15918    | 2.02 | ug/L   | 95       |
| 106) 1,2,4-trimethylbenzene    | 6.523 | 105  | 16951    | 1.97 | ug/L   | 99       |
| 107) sec-butylbenzene          | 6.607 | 105  | 22416    | 1.97 | ug/L   | 95       |
| 108) 1,3-dichlorobenzene       | 6.769 | 146  | 10705    | 1.99 | ug/L   | 99       |
| 109) p-isopropyltoluene        | 6.717 | 119  | 18477    | 1.95 | ug/L   | 94       |
| 110) 1,4-dichlorobenzene       | 6.837 | 146  | 11482    | 2.10 | ug/L   | 91       |
| 111) 1,2-dichlorobenzene       | 7.152 | 146  | 9816     | 2.02 | ug/L   | 98       |
| 112) 1,2,3-trimethylbenzene    | 6.858 | 105  | 17300    | 2.04 | ug/L   | 92       |
| 113) n-butylbenzene            | 7.042 | 92   | 9007     | 1.91 | ug/L   | 91       |
| 114) 1,2-dibromo-3-chloropr... | 7.723 | 157  | 1845     | 2.04 | ug/L   | 88       |
| 115) 1,3,5-trichlorobenzene    | 7.750 | 180  | 6507     | 1.95 | ug/L   | 94       |
| 116) 1,2,4-trichlorobenzene    | 8.190 | 180  | 5370     | 1.94 | ug/L   | 98       |
| 117) hexachlorobutadiene       | 8.180 | 225  | 2810     | 2.21 | ug/L   | 86       |
| 119) 1,2,3-trichlorobenzene    | 8.526 | 180  | 5323     | 1.95 | ug/L   | 91       |
| 120) hexachloroethane          | 7.136 | 119  | 3183     | 1.80 | ug/L   | 99       |
| 121) benzyl chloride           | 7.026 | 126  | 2061     | 1.70 | ug/L   | 96       |
| 122) 2-methylnaphthalene       | 9.081 | 142  | 2879     | 0.90 | ug/L   | 85       |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VU2015\  
Data File : 1U49562.D  
Acq On : 28 Oct 2022 7:08 pm  
Operator : edwardd  
Sample : ic2015-2  
Misc : MS63374,V1U2015,5,,,,,1  
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 01 14:47:06 2022  
Quant Method : C:\MSDCHEM\1\METHODS\M1U2015.M  
Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um  
QLast Update : Mon Oct 31 14:19:53 2022  
Response via : Initial Calibration



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VU2015\  
 Data File : 1U49564.D  
 Acq On : 28 Oct 2022 7:37 pm  
 Operator : edwardd  
 Sample : ic2015-4  
 Misc : MS63374,V1U2015,5,,,1  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 31 14:20:28 2022

Quant Method : C:\MSDCHEM\1\METHODS\M1U2015.M

Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um

QLast Update : Mon Oct 31 14:19:53 2022

Response via : Initial Calibration

| Compound                      | R.T.           | QIon | Response   | Conc    | Units | Dev(Min) |
|-------------------------------|----------------|------|------------|---------|-------|----------|
| Internal Standards            |                |      |            |         |       |          |
| 1) tert butyl alcohol-d9      | 2.056          | 65   | 366554     | 500.00  | ug/L  | 0.00     |
| 5) pentafluorobenzene         | 2.999          | 168  | 471330     | 50.00   | ug/L  | 0.00     |
| 50) 1,4-difluorobenzene       | 3.293          | 114  | 654312     | 50.00   | ug/L  | 0.00     |
| 72) chlorobenzene-d5          | 5.091          | 117  | 622128     | 50.00   | ug/L  | 0.00     |
| 95) 1,4-dichlorobenzene-d4    | 6.827          | 152  | 285158     | 50.00   | ug/L  | 0.00     |
| System Monitoring Compounds   |                |      |            |         |       |          |
| 42) dibromofluoromethane (s)  | 2.779          | 113  | 236545     | 53.76   | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 75 - 127 |      | Recovery = | 107.52% |       |          |
| 51) 1,2-dichloroethane-d4 (s) | 3.052          | 65   | 268614     | 53.07   | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 75 - 130 |      | Recovery = | 106.14% |       |          |
| 73) toluene-d8 (s)            | 4.085          | 98   | 788742     | 51.74   | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 80 - 120 |      | Recovery = | 103.48% |       |          |
| 96) 4-bromofluorobenzene (s)  | 5.967          | 95   | 272726     | 52.52   | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 79 - 127 |      | Recovery = | 105.04% |       |          |
| Target Compounds              |                |      |            |         |       |          |
| 2) ethanol                    | 1.657          | 45   | 11453      | 468.76  | ug/L  | 94       |
| 3) tertiary butyl alcohol     | 2.098          | 59   | 9630       | 21.62   | ug/L  | 97       |
| 4) 1,4-dioxane                | 3.718          | 88   | 3471       | 88.27   | ug/L  | 81       |
| 6) chlorodifluoromethane      | 1.091          | 51   | 8973       | 4.14    | ug/L  | 96       |
| 7) dichlorodifluoromethane    | 1.070          | 85   | 14870      | 4.37    | ug/L  | 94       |
| 8) chloromethane              | 1.170          | 50   | 10503      | 4.69    | ug/L  | 92       |
| 9) vinyl chloride             | 1.206          | 62   | 14040      | 4.62    | ug/L  | 96       |
| 10) 1,3-butadiene             | 1.211          | 39   | 9239       | 4.94    | ug/L  | 96       |
| 11) bromomethane              | 1.358          | 96   | 14736      | 5.06    | ug/L  | # 96     |
| 12) chloroethane              | 1.416          | 64   | 10971      | 4.74    | ug/L  | 93       |
| 13) trichlorofluoromethane    | 1.479          | 101  | 36226      | 4.50    | ug/L  | 98       |
| 14) ethyl ether               | 1.610          | 74   | 6870       | 4.19    | ug/L  | 98       |
| 15) acrolein                  | 1.851          | 56   | 2014       | 4.04    | ug/L  | 96       |
| 16) freon 113                 | 1.720          | 151  | 10668      | 4.23    | ug/L  | 91       |
| 17) 1,1-dichloroethene        | 1.710          | 61   | 15684      | 4.32    | ug/L  | 92       |
| 18) acetone                   | 1.972          | 58   | 6411       | 17.48   | ug/L  | 96       |
| 19) acetonitrile              | 2.192          | 41   | 11484      | 45.81   | ug/L  | 95       |
| 20) iodomethane               | 1.783          | 142  | 4775       | 2.09    | ug/L  | 94       |
| 21) carbon disulfide          | 1.741          | 76   | 29983      | 4.48    | ug/L  | 97       |
| 22) methylene chloride        | 1.961          | 84   | 9279       | 4.20    | ug/L  | 97       |
| 23) methyl acetate            | 2.024          | 74   | 2167       | 4.21    | ug/L  | # 76     |
| 24) methyl tert butyl ether   | 2.071          | 73   | 28536      | 4.28    | ug/L  | 78       |
| 25) trans-1,2-dichloroethene  | 2.035          | 61   | 15428      | 4.86    | ug/L  | 93       |
| 26) hexane                    | 2.066          | 57   | 20693      | 4.45    | ug/L  | 98       |
| 27) di-isopropyl ether        | 2.234          | 45   | 25318      | 4.21    | ug/L  | 95       |
| 28) ethyl tert-butyl ether    | 2.402          | 59   | 26213      | 4.08    | ug/L  | 95       |
| 29) 2-butanone                | 2.826          | 72   | 7820       | 18.53   | ug/L  | 97       |
| 30) 1,1-dichloroethane        | 2.312          | 63   | 16918      | 4.06    | ug/L  | 92       |
| 31) chloroprene               | 2.302          | 53   | 14320      | 4.47    | ug/L  | 95       |
| 32) acrylonitrile             | 2.328          | 52   | 2784       | 4.04    | ug/L  | 91       |
| 33) vinyl acetate             | 2.407          | 86   | 2019       | 3.87    | ug/L  | # 73     |
| 34) ethyl acetate             | 2.721          | 70   | 1240       | 4.14    | ug/L  | # 66     |

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VU2015\  
 Data File : 1U49564.D  
 Acq On : 28 Oct 2022 7:37 pm  
 Operator : edwardd  
 Sample : ic2015-4  
 Misc : MS63374,V1U2015,5,,,1  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 31 14:20:28 2022

Quant Method : C:\MSDCHEM\1\METHODS\M1U2015.M

Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um

QLast Update : Mon Oct 31 14:19:53 2022

Response via : Initial Calibration

| Compound                      | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|--------|--------|----------|
| 35) 2,2-dichloropropane       | 2.622 | 77   | 16153    | 4.31   | ug/L   | 98       |
| 36) cis-1,2-dichloroethene    | 2.564 | 96   | 10654    | 4.10   | ug/L   | 97       |
| 37) propionitrile             | 2.984 | 54   | 18414    | 48.39  | ug/L   | 74       |
| 38) methyl acrylate           | 2.737 | 85   | 2193     | 3.92   | ug/L   | 97       |
| 39) bromochloromethane        | 2.664 | 128  | 5182     | 3.95   | ug/L   | 88       |
| 40) tetrahydrofuran           | 2.774 | 71   | 1658     | 4.37   | ug/L   | 92       |
| 41) chloroform                | 2.685 | 47   | 5287     | 4.51   | ug/L   | 98       |
| 43) methacrylonitrile         | 2.994 | 67   | 6593     | 5.65   | ug/L   | 94       |
| 44) 1,1,1-trichloroethane     | 2.805 | 97   | 18266    | 4.12   | ug/L   | 97       |
| 45) cyclohexane               | 2.674 | 84   | 17403    | 4.65   | ug/L   | 97       |
| 46) 1,1-dichloropropene       | 2.863 | 75   | 13943    | 4.15   | ug/L   | 94       |
| 47) carbon tetrachloride      | 2.774 | 117  | 18097    | 4.47   | ug/L # | 88       |
| 48) isobutyl alcohol          | 3.031 | 43   | 12066    | 42.14  | ug/L   | 86       |
| 49) tert-amyl alcohol         | 3.109 | 55   | 3641     | 27.08  | ug/L # | 80       |
| 52) iso-octane                | 2.910 | 57   | 34341    | 4.07   | ug/L   | 95       |
| 53) benzene                   | 2.989 | 78   | 37852    | 3.94   | ug/L   | 97       |
| 54) tert-amyl methyl ether    | 3.026 | 73   | 28221    | 4.05   | ug/L   | 96       |
| 55) heptane                   | 2.952 | 57   | 6141     | 4.05   | ug/L   | 97       |
| 56) isopropyl acetate         | 3.183 | 87   | 2504     | 3.65   | ug/L   | 97       |
| 57) 1,2-dichloroethane        | 3.083 | 62   | 14198    | 4.35   | ug/L   | 95       |
| 58) n-butyl alcohol           | 3.419 | 56   | 18756    | 217.05 | ug/L   | 97       |
| 59) ethyl acrylate            | 3.555 | 55   | 14011    | 4.16   | ug/L   | 94       |
| 60) trichloroethene           | 3.288 | 130  | 11104    | 3.61   | ug/L   | 95       |
| 61) 2-nitropropane            | 4.247 | 41   | 3607     | 4.23   | ug/L   | 81       |
| 62) 2-chloroethyl vinyl ether | 3.917 | 63   | 25730    | 18.25  | ug/L   | 95       |
| 63) methyl methacrylate       | 3.670 | 100  | 3262     | 4.10   | ug/L # | 69       |
| 64) 1,2-dichloropropane       | 3.576 | 63   | 8840     | 3.93   | ug/L   | 99       |
| 65) methylcyclohexane         | 3.293 | 55   | 14100    | 4.93   | ug/L   | 80       |
| 66) dibromomethane            | 3.518 | 93   | 6896     | 3.78   | ug/L   | 99       |
| 67) bromodichloromethane      | 3.602 | 83   | 14464    | 3.92   | ug/L   | 97       |
| 68) epichlorohydrin           | 4.111 | 57   | 7118     | 23.36  | ug/L   | 85       |
| 69) cis-1,3-dichloropropene   | 3.964 | 75   | 14923    | 3.86   | ug/L   | 95       |
| 70) 4-methyl-2-pentanone      | 4.336 | 58   | 18914    | 16.85  | ug/L   | 96       |
| 71) 3-methyl-1-butanol        | 4.184 | 70   | 7264     | 78.90  | ug/L   | 94       |
| 74) toluene                   | 4.116 | 92   | 23787    | 3.76   | ug/L   | 98       |
| 75) ethyl methacrylate        | 4.457 | 69   | 12657    | 3.96   | ug/L   | 90       |
| 76) trans-1,3-dichloropropene | 4.363 | 75   | 13930    | 3.76   | ug/L   | 95       |
| 77) 1,1,2-trichloroethane     | 4.467 | 83   | 7872     | 4.06   | ug/L   | 95       |
| 78) tetrachloroethene         | 4.363 | 166  | 12015    | 3.56   | ug/L   | 95       |
| 79) 2-hexanone                | 4.882 | 58   | 20292    | 17.21  | ug/L   | 87       |
| 80) 1,3-dichloropropane       | 4.651 | 76   | 14536    | 3.99   | ug/L   | 85       |
| 81) butyl acetate             | 4.813 | 56   | 6407     | 4.08   | ug/L # | 73       |
| 82) dibromochloromethane      | 4.588 | 129  | 12047    | 3.92   | ug/L   | 97       |
| 83) 1,2-dibromoethane         | 4.750 | 107  | 10267    | 3.79   | ug/L   | 97       |
| 84) n-butyl ether             | 5.028 | 57   | 33949    | 3.88   | ug/L   | 99       |
| 85) chlorobenzene             | 5.102 | 112  | 28406    | 3.80   | ug/L   | 88       |
| 86) 1,1,1,2-tetrachloroethane | 5.144 | 131  | 9617     | 3.43   | ug/L   | 94       |
| 87) ethylbenzene              | 5.118 | 91   | 48642    | 3.92   | ug/L   | 96       |
| 88) m,p-xylene                | 5.222 | 106  | 35021    | 7.32   | ug/L   | 90       |
| 89) o-xylene                  | 5.526 | 106  | 16038    | 3.61   | ug/L   | 97       |

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VU2015\  
 Data File : 1U49564.D  
 Acq On : 28 Oct 2022 7:37 pm  
 Operator : edwardd  
 Sample : ic2015-4  
 Misc : MS63374,V1U2015,5,,,1  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 31 14:20:28 2022

Quant Method : C:\MSDCHEM\1\METHODS\M1U2015.M

Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um

QLast Update : Mon Oct 31 14:19:53 2022

Response via : Initial Calibration

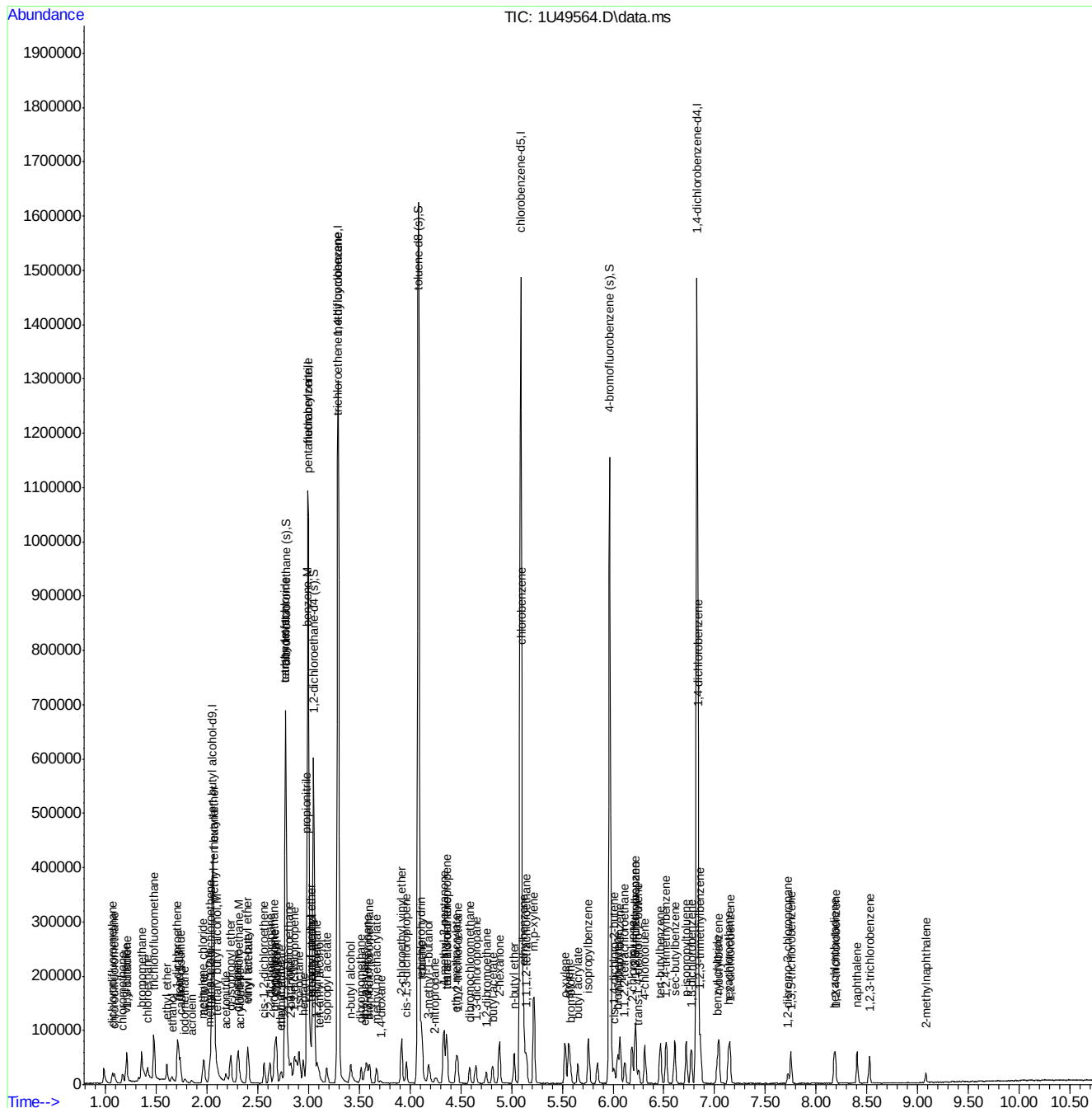
| Compound                       | R.T.  | QIon | Response | Conc | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|------|--------|----------|
| 90) styrene                    | 5.563 | 104  | 26584    | 3.57 | ug/L   | 90       |
| 91) bromoform                  | 5.584 | 173  | 9161     | 3.65 | ug/L   | 98       |
| 92) butyl acrylate             | 5.652 | 55   | 17324    | 4.04 | ug/L   | 98       |
| 93) isopropylbenzene           | 5.757 | 105  | 44618    | 3.70 | ug/L   | 97       |
| 94) cis-1,4-dichloro-2-butene  | 6.009 | 88   | 4908     | 3.63 | ug/L   | 84       |
| 97) bromobenzene               | 6.046 | 156  | 12325    | 4.01 | ug/L   | 96       |
| 98) 1,1,2,2-tetrachloroethane  | 6.114 | 83   | 14401    | 4.54 | ug/L   | 98       |
| 99) trans-1,4-dichloro-2-b...  | 6.250 | 53   | 3322     | 4.31 | ug/L # | 78       |
| 100) 1,2,3-trichloropropane    | 6.219 | 110  | 4655     | 4.16 | ug/L   | 95       |
| 101) n-propylbenzene           | 6.066 | 91   | 52591    | 4.02 | ug/L   | 93       |
| 102) 2-chlorotoluene           | 6.187 | 126  | 11311    | 3.96 | ug/L   | 90       |
| 103) 4-chlorotoluene           | 6.313 | 91   | 30211    | 3.99 | ug/L   | 95       |
| 104) 1,3,5-trimethylbenzene    | 6.219 | 105  | 33902    | 3.83 | ug/L   | 92       |
| 105) tert-butylbenzene         | 6.465 | 119  | 30330    | 3.81 | ug/L   | 97       |
| 106) 1,2,4-trimethylbenzene    | 6.523 | 105  | 32216    | 3.71 | ug/L   | 96       |
| 107) sec-butylbenzene          | 6.607 | 105  | 44352    | 3.86 | ug/L   | 97       |
| 108) 1,3-dichlorobenzene       | 6.774 | 146  | 20318    | 3.74 | ug/L   | 95       |
| 109) p-isopropyltoluene        | 6.722 | 119  | 34572    | 3.62 | ug/L   | 96       |
| 110) 1,4-dichlorobenzene       | 6.837 | 146  | 21814    | 3.96 | ug/L   | 92       |
| 111) 1,2-dichlorobenzene       | 7.152 | 146  | 19535    | 3.98 | ug/L   | 96       |
| 112) 1,2,3-trimethylbenzene    | 6.858 | 105  | 33517    | 3.91 | ug/L   | 97       |
| 113) n-butylbenzene            | 7.042 | 92   | 18684    | 3.93 | ug/L   | 97       |
| 114) 1,2-dibromo-3-chloropr... | 7.723 | 157  | 3636     | 3.99 | ug/L   | 95       |
| 115) 1,3,5-trichlorobenzene    | 7.755 | 180  | 13276    | 3.94 | ug/L   | 97       |
| 116) 1,2,4-trichlorobenzene    | 8.190 | 180  | 9629     | 3.46 | ug/L   | 93       |
| 117) hexachlorobutadiene       | 8.179 | 225  | 4708     | 3.67 | ug/L   | 93       |
| 118) naphthalene               | 8.405 | 128  | 30575    | 3.63 | ug/L   | 99       |
| 119) 1,2,3-trichlorobenzene    | 8.525 | 180  | 10303    | 3.74 | ug/L   | 96       |
| 120) hexachloroethane          | 7.136 | 119  | 6237     | 3.49 | ug/L   | 90       |
| 121) benzyl chloride           | 7.026 | 126  | 4310     | 3.53 | ug/L   | 99       |
| 122) 2-methylnaphthalene       | 9.081 | 142  | 5384     | 1.66 | ug/L   | 98       |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VU2015\  
Data File : 1U49564.D  
Acq On : 28 Oct 2022 7:37 pm  
Operator : edwardd  
Sample : ic2015-4  
Misc : MS63374,V1U2015,5,,,,,1  
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 31 14:20:28 2022  
Quant Method : C:\MSDCHEM\1\METHODS\M1U2015.M  
Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um  
QLast Update : Mon Oct 31 14:19:53 2022  
Response via : Initial Calibration



M1U2015.M Wed Nov 02 17:15:26 2022

Page: 4

7.6.18

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VU2015\  
 Data File : 1U49566.D  
 Acq On : 28 Oct 2022 8:06 pm  
 Operator : edwardd  
 Sample : ic2015-8  
 Misc : MS63374,V1U2015,5,,,1  
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 31 14:20:31 2022

Quant Method : C:\MSDCHEM\1\METHODS\M1U2015.M

Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um

QLast Update : Mon Oct 31 14:19:53 2022

Response via : Initial Calibration

| Compound                      | R.T.           | QIon | Response   | Conc    | Units | Dev(Min) |
|-------------------------------|----------------|------|------------|---------|-------|----------|
| Internal Standards            |                |      |            |         |       |          |
| 1) tert butyl alcohol-d9      | 2.061          | 65   | 366612     | 500.00  | ug/L  | 0.00     |
| 5) pentafluorobenzene         | 2.999          | 168  | 475406     | 50.00   | ug/L  | 0.00     |
| 50) 1,4-difluorobenzene       | 3.293          | 114  | 659929     | 50.00   | ug/L  | 0.00     |
| 72) chlorobenzene-d5          | 5.091          | 117  | 619138     | 50.00   | ug/L  | 0.00     |
| 95) 1,4-dichlorobenzene-d4    | 6.827          | 152  | 289725     | 50.00   | ug/L  | 0.00     |
| System Monitoring Compounds   |                |      |            |         |       |          |
| 42) dibromofluoromethane (s)  | 2.779          | 113  | 238521     | 53.75   | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 75 - 127 |      | Recovery = | 107.50% |       |          |
| 51) 1,2-dichloroethane-d4 (s) | 3.052          | 65   | 272470     | 53.37   | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 75 - 130 |      | Recovery = | 106.74% |       |          |
| 73) toluene-d8 (s)            | 4.085          | 98   | 786178     | 51.82   | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 80 - 120 |      | Recovery = | 103.64% |       |          |
| 96) 4-bromofluorobenzene (s)  | 5.967          | 95   | 275203     | 52.16   | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 79 - 127 |      | Recovery = | 104.32% |       |          |
| Target Compounds              |                |      |            |         |       |          |
| 2) ethanol                    | 1.657          | 45   | 23344      | 955.30  | ug/L  | 98       |
| 3) tertiary butyl alcohol     | 2.092          | 59   | 21244      | 47.69   | ug/L  | 92       |
| 4) 1,4-dioxane                | 3.707          | 88   | 8539       | 217.13  | ug/L  | 89       |
| 6) chlorodifluoromethane      | 1.091          | 51   | 21605      | 9.88    | ug/L  | 98       |
| 7) dichlorodifluoromethane    | 1.070          | 85   | 26565      | 7.74    | ug/L  | 98       |
| 8) chloromethane              | 1.175          | 50   | 16867      | 7.46    | ug/L  | 97       |
| 9) vinyl chloride             | 1.206          | 62   | 23683      | 7.73    | ug/L  | 96       |
| 10) 1,3-butadiene             | 1.212          | 39   | 21041      | 11.14   | ug/L  | 85       |
| 11) bromomethane              | 1.358          | 96   | 25879      | 8.82    | ug/L  | # 94     |
| 12) chloroethane              | 1.416          | 64   | 16774      | 7.19    | ug/L  | 96       |
| 13) trichlorofluoromethane    | 1.484          | 101  | 60553      | 7.46    | ug/L  | 99       |
| 14) ethyl ether               | 1.610          | 74   | 15816      | 9.56    | ug/L  | 98       |
| 15) acrolein                  | 1.851          | 56   | 4353       | 8.65    | ug/L  | 90       |
| 16) freon 113                 | 1.720          | 151  | 25302      | 9.94    | ug/L  | 94       |
| 17) 1,1-dichloroethene        | 1.710          | 61   | 36324      | 9.92    | ug/L  | 97       |
| 18) acetone                   | 1.977          | 58   | 11435      | 30.91   | ug/L  | 92       |
| 19) acetonitrile              | 2.192          | 41   | 27449      | 108.55  | ug/L  | 95       |
| 20) iodomethane               | 1.788          | 142  | 12972      | 5.64    | ug/L  | 98       |
| 21) carbon disulfide          | 1.741          | 76   | 71122      | 10.55   | ug/L  | 99       |
| 22) methylene chloride        | 1.966          | 84   | 22798      | 10.23   | ug/L  | 94       |
| 23) methyl acetate            | 2.024          | 74   | 5354       | 10.31   | ug/L  | 88       |
| 24) methyl tert butyl ether   | 2.071          | 73   | 66437      | 9.88    | ug/L  | 74       |
| 25) trans-1,2-dichloroethene  | 2.035          | 61   | 33464      | 10.44   | ug/L  | 93       |
| 26) hexane                    | 2.066          | 57   | 47821      | 10.19   | ug/L  | 98       |
| 27) di-isopropyl ether        | 2.234          | 45   | 61083      | 10.06   | ug/L  | 97       |
| 28) ethyl tert-butyl ether    | 2.402          | 59   | 63679      | 9.82    | ug/L  | 94       |
| 29) 2-butanone                | 2.832          | 72   | 16750      | 39.35   | ug/L  | 95       |
| 30) 1,1-dichloroethane        | 2.318          | 63   | 40992      | 9.75    | ug/L  | 98       |
| 31) chloroprene               | 2.302          | 53   | 33432      | 10.35   | ug/L  | 92       |
| 32) acrylonitrile             | 2.334          | 52   | 6307       | 9.07    | ug/L  | 96       |
| 33) vinyl acetate             | 2.407          | 86   | 5364       | 10.19   | ug/L  | # 92     |
| 34) ethyl acetate             | 2.727          | 70   | 2933       | 9.70    | ug/L  | 98       |



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VU2015\  
 Data File : 1U49566.D  
 Acq On : 28 Oct 2022 8:06 pm  
 Operator : edwardd  
 Sample : ic2015-8  
 Misc : MS63374,V1U2015,5,,,1  
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 31 14:20:31 2022

Quant Method : C:\MSDCHEM\1\METHODS\M1U2015.M

Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um

QLast Update : Mon Oct 31 14:19:53 2022

Response via : Initial Calibration

| Compound                      | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|--------|--------|----------|
| 35) 2,2-dichloropropane       | 2.622 | 77   | 37048    | 9.80   | ug/L   | 99       |
| 36) cis-1,2-dichloroethene    | 2.564 | 96   | 24715    | 9.43   | ug/L   | 91       |
| 37) propionitrile             | 2.984 | 54   | 41699    | 108.65 | ug/L   | 89       |
| 38) methyl acrylate           | 2.742 | 85   | 5075     | 8.98   | ug/L   | 95       |
| 39) bromochloromethane        | 2.664 | 128  | 12486    | 9.44   | ug/L   | 93       |
| 40) tetrahydrofuran           | 2.774 | 71   | 4062     | 10.61  | ug/L   | 85       |
| 41) chloroform                | 2.685 | 47   | 12583    | 10.64  | ug/L   | 99       |
| 43) methacrylonitrile         | 2.994 | 67   | 12863    | 10.94  | ug/L   | 87       |
| 44) 1,1,1-trichloroethane     | 2.805 | 97   | 42829    | 9.58   | ug/L   | 94       |
| 45) cyclohexane               | 2.680 | 84   | 28395    | 7.52   | ug/L   | 97       |
| 46) 1,1-dichloropropene       | 2.863 | 75   | 34342    | 10.14  | ug/L   | 96       |
| 47) carbon tetrachloride      | 2.774 | 117  | 41073    | 10.06  | ug/L   | 96       |
| 48) isobutyl alcohol          | 3.026 | 43   | 26481    | 91.68  | ug/L   | 95       |
| 49) tert-amyl alcohol         | 3.104 | 55   | 7598     | 56.03  | ug/L # | 86       |
| 52) iso-octane                | 2.910 | 57   | 80812    | 9.51   | ug/L   | 93       |
| 53) benzene                   | 2.989 | 78   | 89953    | 9.29   | ug/L   | 97       |
| 54) tert-amyl methyl ether    | 3.026 | 73   | 65247    | 9.29   | ug/L   | 97       |
| 55) heptane                   | 2.952 | 57   | 14699    | 9.62   | ug/L   | 95       |
| 56) isopropyl acetate         | 3.183 | 87   | 5877     | 8.50   | ug/L # | 80       |
| 57) 1,2-dichloroethane        | 3.089 | 62   | 32392    | 9.85   | ug/L   | 99       |
| 58) n-butyl alcohol           | 3.419 | 56   | 40453    | 464.14 | ug/L   | 91       |
| 59) ethyl acrylate            | 3.555 | 55   | 32072    | 9.45   | ug/L   | 98       |
| 60) trichloroethene           | 3.288 | 130  | 26968    | 8.68   | ug/L   | 99       |
| 61) 2-nitropropane            | 4.247 | 41   | 8319     | 9.67   | ug/L   | 93       |
| 62) 2-chloroethyl vinyl ether | 3.917 | 63   | 61274    | 43.08  | ug/L   | 96       |
| 63) methyl methacrylate       | 3.671 | 100  | 7054     | 8.79   | ug/L   | 91       |
| 64) 1,2-dichloropropane       | 3.576 | 63   | 21193    | 9.35   | ug/L   | 96       |
| 65) methylcyclohexane         | 3.293 | 55   | 29883    | 10.36  | ug/L   | 92       |
| 66) dibromomethane            | 3.518 | 93   | 16765    | 9.10   | ug/L   | 93       |
| 67) bromodichloromethane      | 3.602 | 83   | 33703    | 9.05   | ug/L   | 95       |
| 68) epichlorohydrin           | 4.111 | 57   | 14490    | 47.14  | ug/L   | 83       |
| 69) cis-1,3-dichloropropene   | 3.969 | 75   | 34759    | 8.91   | ug/L   | 99       |
| 70) 4-methyl-2-pentanone      | 4.336 | 58   | 41184    | 36.37  | ug/L   | 95       |
| 71) 3-methyl-1-butanol        | 4.190 | 70   | 16141    | 173.83 | ug/L   | 93       |
| 74) toluene                   | 4.116 | 92   | 57383    | 9.11   | ug/L   | 97       |
| 75) ethyl methacrylate        | 4.452 | 69   | 29184    | 9.17   | ug/L   | 97       |
| 76) trans-1,3-dichloropropene | 4.363 | 75   | 32477    | 8.81   | ug/L   | 97       |
| 77) 1,1,2-trichloroethane     | 4.467 | 83   | 18262    | 9.47   | ug/L   | 95       |
| 78) tetrachloroethene         | 4.363 | 166  | 28357    | 8.43   | ug/L   | 97       |
| 79) 2-hexanone                | 4.882 | 58   | 42535    | 36.25  | ug/L   | 93       |
| 80) 1,3-dichloropropane       | 4.651 | 76   | 34268    | 9.44   | ug/L   | 97       |
| 81) butyl acetate             | 4.813 | 56   | 14492    | 9.27   | ug/L   | 92       |
| 82) dibromochloromethane      | 4.588 | 129  | 26438    | 8.65   | ug/L   | 98       |
| 83) 1,2-dibromoethane         | 4.751 | 107  | 24297    | 9.01   | ug/L   | 99       |
| 84) n-butyl ether             | 5.028 | 57   | 80367    | 9.22   | ug/L   | 98       |
| 85) chlorobenzene             | 5.102 | 112  | 64843    | 8.71   | ug/L   | 93       |
| 86) 1,1,1,2-tetrachloroethane | 5.144 | 131  | 23475    | 8.41   | ug/L   | 98       |
| 87) ethylbenzene              | 5.118 | 91   | 113077   | 9.16   | ug/L   | 98       |
| 88) m,p-xylene                | 5.222 | 106  | 83347    | 17.51  | ug/L   | 95       |
| 89) o-xylene                  | 5.527 | 106  | 38710    | 8.75   | ug/L   | 93       |



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VU2015\  
 Data File : 1U49566.D  
 Acq On : 28 Oct 2022 8:06 pm  
 Operator : edwardd  
 Sample : ic2015-8  
 Misc : MS63374,V1U2015,5,,,1  
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 31 14:20:31 2022

Quant Method : C:\MSDCHEM\1\METHODS\M1U2015.M

Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um

QLast Update : Mon Oct 31 14:19:53 2022

Response via : Initial Calibration

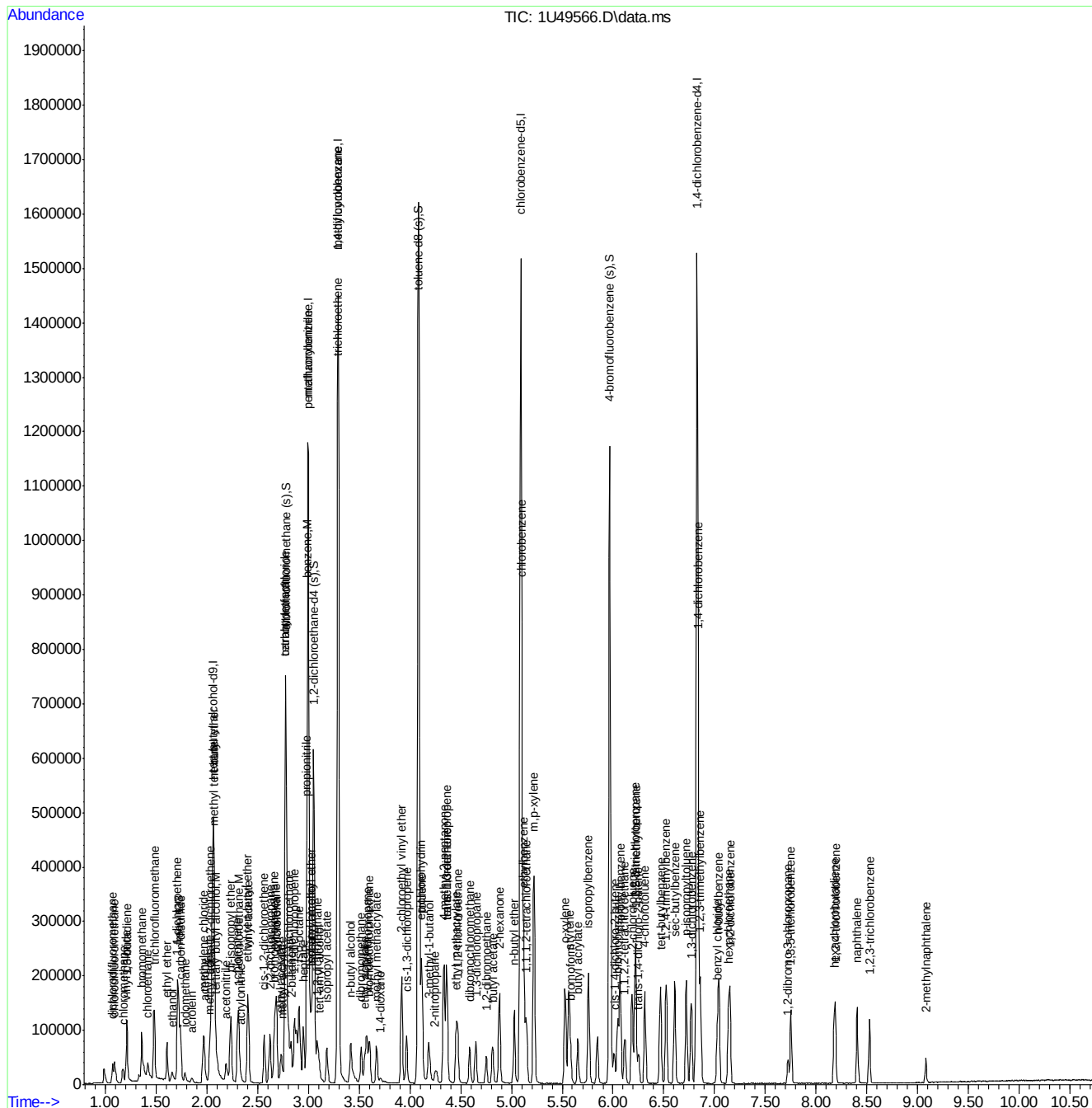
| Compound                       | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-------|-------|----------|
| 90) styrene                    | 5.568 | 104  | 62784    | 8.46  | ug/L  | 99       |
| 91) bromoform                  | 5.584 | 173  | 20795    | 8.32  | ug/L  | 100      |
| 92) butyl acrylate             | 5.652 | 55   | 40457    | 9.47  | ug/L  | 98       |
| 93) isopropylbenzene           | 5.757 | 105  | 106341   | 8.85  | ug/L  | 98       |
| 94) cis-1,4-dichloro-2-butene  | 6.014 | 88   | 11138    | 8.29  | ug/L  | 95       |
| 97) bromobenzene               | 6.046 | 156  | 26804    | 8.58  | ug/L  | 94       |
| 98) 1,1,2,2-tetrachloroethane  | 6.114 | 83   | 32234    | 10.01 | ug/L  | 98       |
| 99) trans-1,4-dichloro-2-b...  | 6.250 | 53   | 7340     | 9.37  | ug/L  | 98       |
| 100) 1,2,3-trichloropropane    | 6.219 | 110  | 10216    | 8.99  | ug/L  | 93       |
| 101) n-propylbenzene           | 6.072 | 91   | 122007   | 9.19  | ug/L  | 98       |
| 102) 2-chlorotoluene           | 6.187 | 126  | 25046    | 8.64  | ug/L  | 90       |
| 103) 4-chlorotoluene           | 6.313 | 91   | 72017    | 9.36  | ug/L  | 96       |
| 104) 1,3,5-trimethylbenzene    | 6.224 | 105  | 81005    | 9.01  | ug/L  | 96       |
| 105) tert-butylbenzene         | 6.470 | 119  | 71518    | 8.85  | ug/L  | 97       |
| 106) 1,2,4-trimethylbenzene    | 6.523 | 105  | 79297    | 8.99  | ug/L  | 99       |
| 107) sec-butylbenzene          | 6.607 | 105  | 105493   | 9.04  | ug/L  | 99       |
| 108) 1,3-dichlorobenzene       | 6.769 | 146  | 48534    | 8.80  | ug/L  | 96       |
| 109) p-isopropyltoluene        | 6.722 | 119  | 83751    | 8.63  | ug/L  | 97       |
| 110) 1,4-dichlorobenzene       | 6.837 | 146  | 49180    | 8.78  | ug/L  | 97       |
| 111) 1,2-dichlorobenzene       | 7.152 | 146  | 44186    | 8.86  | ug/L  | 97       |
| 112) 1,2,3-trimethylbenzene    | 6.858 | 105  | 77319    | 8.89  | ug/L  | 97       |
| 113) n-butylbenzene            | 7.042 | 92   | 43996    | 9.10  | ug/L  | 96       |
| 114) 1,2-dibromo-3-chloropr... | 7.723 | 157  | 8451     | 9.12  | ug/L  | 90       |
| 115) 1,3,5-trichlorobenzene    | 7.750 | 180  | 30580    | 8.93  | ug/L  | 99       |
| 116) 1,2,4-trichlorobenzene    | 8.190 | 180  | 25034    | 8.85  | ug/L  | 95       |
| 117) hexachlorobutadiene       | 8.180 | 225  | 12438    | 9.53  | ug/L  | 97       |
| 118) naphthalene               | 8.405 | 128  | 71625    | 8.37  | ug/L  | 99       |
| 119) 1,2,3-trichlorobenzene    | 8.526 | 180  | 24110    | 8.62  | ug/L  | 98       |
| 120) hexachloroethane          | 7.136 | 119  | 15195    | 8.38  | ug/L  | 97       |
| 121) benzyl chloride           | 7.026 | 126  | 9933     | 8.00  | ug/L  | 99       |
| 122) 2-methylnaphthalene       | 9.081 | 142  | 12887    | 3.91  | ug/L  | 91       |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VU2015\  
Data File : 1U49566.D  
Acq On : 28 Oct 2022 8:06 pm  
Operator : edwardd  
Sample : ic2015-8  
Misc : MS63374,V1U2015,5,,,,,1  
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 31 14:20:31 2022  
Quant Method : C:\MSDCHEM\1\METHODS\M1U2015.M  
Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um  
QLast Update : Mon Oct 31 14:19:53 2022  
Response via : Initial Calibration



## 7.6.19



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VU2015\  
 Data File : 1U49568.D  
 Acq On : 28 Oct 2022 8:35 pm  
 Operator : edwardd  
 Sample : ic2015-20  
 Misc : MS63374,V1U2015,5,,,1  
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 31 14:20:34 2022

Quant Method : C:\MSDCHEM\1\METHODS\M1U2015.M

Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um

QLast Update : Mon Oct 31 14:19:53 2022

Response via : Initial Calibration

| Compound                      | R.T.           | QIon | Response   | Conc    | Units | Dev(Min) |
|-------------------------------|----------------|------|------------|---------|-------|----------|
| Internal Standards            |                |      |            |         |       |          |
| 1) tert butyl alcohol-d9      | 2.055          | 65   | 358683     | 500.00  | ug/L  | 0.00     |
| 5) pentafluorobenzene         | 2.999          | 168  | 487013     | 50.00   | ug/L  | 0.00     |
| 50) 1,4-difluorobenzene       | 3.293          | 114  | 667305     | 50.00   | ug/L  | 0.00     |
| 72) chlorobenzene-d5          | 5.091          | 117  | 626666     | 50.00   | ug/L  | 0.00     |
| 95) 1,4-dichlorobenzene-d4    | 6.827          | 152  | 289826     | 50.00   | ug/L  | 0.00     |
| System Monitoring Compounds   |                |      |            |         |       |          |
| 42) dibromofluoromethane (s)  | 2.779          | 113  | 237523     | 52.25   | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 75 - 127 |      | Recovery = | 104.50% |       |          |
| 51) 1,2-dichloroethane-d4 (s) | 3.052          | 65   | 266192     | 51.56   | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 75 - 130 |      | Recovery = | 103.12% |       |          |
| 73) toluene-d8 (s)            | 4.085          | 98   | 790786     | 51.50   | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 80 - 120 |      | Recovery = | 103.00% |       |          |
| 96) 4-bromofluorobenzene (s)  | 5.967          | 95   | 279472     | 52.95   | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 79 - 127 |      | Recovery = | 105.90% |       |          |
| Target Compounds              |                |      |            |         |       |          |
| 2) ethanol                    | 1.652          | 45   | 52590      | 2199.70 | ug/L  | 100      |
| 3) tertiary butyl alcohol     | 2.092          | 59   | 46447      | 106.58  | ug/L  | 93       |
| 4) 1,4-dioxane                | 3.707          | 88   | 19809      | 514.84  | ug/L  | 94       |
| 6) chlorodifluoromethane      | 1.091          | 51   | 49912      | 22.29   | ug/L  | 99       |
| 7) dichlorodifluoromethane    | 1.070          | 85   | 73938      | 21.04   | ug/L  | 98       |
| 8) chloromethane              | 1.169          | 50   | 50602      | 21.85   | ug/L  | 98       |
| 9) vinyl chloride             | 1.206          | 62   | 68981      | 21.98   | ug/L  | 99       |
| 10) 1,3-butadiene             | 1.211          | 39   | 47189      | 24.40   | ug/L  | 92       |
| 11) bromomethane              | 1.358          | 96   | 68300      | 22.72   | ug/L  | # 97     |
| 12) chloroethane              | 1.416          | 64   | 51544      | 21.57   | ug/L  | 100      |
| 13) trichlorofluoromethane    | 1.479          | 101  | 177846     | 21.38   | ug/L  | 99       |
| 14) ethyl ether               | 1.610          | 74   | 38290      | 22.60   | ug/L  | 98       |
| 15) acrolein                  | 1.851          | 56   | 11588      | 22.48   | ug/L  | 99       |
| 16) freon 113                 | 1.720          | 151  | 59211      | 22.70   | ug/L  | 95       |
| 17) 1,1-dichloroethene        | 1.709          | 61   | 88375      | 23.57   | ug/L  | 95       |
| 18) acetone                   | 1.977          | 58   | 24198      | 63.85   | ug/L  | 88       |
| 19) acetonitrile              | 2.192          | 41   | 60193      | 232.36  | ug/L  | 99       |
| 20) iodomethane               | 1.783          | 142  | 43518      | 18.46   | ug/L  | 99       |
| 21) carbon disulfide          | 1.741          | 76   | 162480     | 23.52   | ug/L  | 99       |
| 22) methylene chloride        | 1.961          | 84   | 52427      | 22.96   | ug/L  | 94       |
| 23) methyl acetate            | 2.024          | 74   | 12036      | 22.62   | ug/L  | 92       |
| 24) methyl tert butyl ether   | 2.071          | 73   | 157823     | 22.91   | ug/L  | 79       |
| 25) trans-1,2-dichloroethene  | 2.035          | 61   | 77189      | 23.51   | ug/L  | 96       |
| 26) hexane                    | 2.066          | 57   | 113141     | 23.53   | ug/L  | 98       |
| 27) di-isopropyl ether        | 2.234          | 45   | 140526     | 22.60   | ug/L  | 98       |
| 28) ethyl tert-butyl ether    | 2.402          | 59   | 149471     | 22.51   | ug/L  | 98       |
| 29) 2-butanone                | 2.831          | 72   | 38763      | 88.89   | ug/L  | 89       |
| 30) 1,1-dichloroethane        | 2.312          | 63   | 99561      | 23.11   | ug/L  | 99       |
| 31) chloroprene               | 2.302          | 53   | 79938      | 24.16   | ug/L  | 94       |
| 32) acrylonitrile             | 2.328          | 52   | 16080      | 22.56   | ug/L  | 98       |
| 33) vinyl acetate             | 2.407          | 86   | 13090      | 24.28   | ug/L  | # 88     |
| 34) ethyl acetate             | 2.727          | 70   | 7470       | 24.11   | ug/L  | 94       |

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VU2015\  
 Data File : 1U49568.D  
 Acq On : 28 Oct 2022 8:35 pm  
 Operator : edwardd  
 Sample : ic2015-20  
 Misc : MS63374,V1U2015,5,,,1  
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 31 14:20:34 2022

Quant Method : C:\MSDCHEM\1\METHODS\M1U2015.M

Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um

QLast Update : Mon Oct 31 14:19:53 2022

Response via : Initial Calibration

| Compound                      | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|---------|--------|----------|
| 35) 2,2-dichloropropane       | 2.622 | 77   | 89921    | 23.23   | ug/L   | 96       |
| 36) cis-1,2-dichloroethene    | 2.564 | 96   | 60523    | 22.53   | ug/L   | 95       |
| 37) propionitrile             | 2.983 | 54   | 94187    | 239.56  | ug/L   | 95       |
| 38) methyl acrylate           | 2.737 | 85   | 13034    | 22.52   | ug/L # | 92       |
| 39) bromochloromethane        | 2.664 | 128  | 31030    | 22.89   | ug/L   | 93       |
| 40) tetrahydrofuran           | 2.774 | 71   | 9344     | 23.83   | ug/L   | 94       |
| 41) chloroform                | 2.685 | 47   | 29635    | 24.46   | ug/L   | 92       |
| 43) methacrylonitrile         | 2.994 | 67   | 27860    | 23.12   | ug/L   | 75       |
| 44) 1,1,1-trichloroethane     | 2.805 | 97   | 105574   | 23.04   | ug/L   | 98       |
| 45) cyclohexane               | 2.679 | 84   | 85134    | 22.01   | ug/L   | 97       |
| 46) 1,1-dichloropropene       | 2.863 | 75   | 79918    | 23.02   | ug/L   | 97       |
| 47) carbon tetrachloride      | 2.774 | 117  | 96874    | 23.16   | ug/L   | 97       |
| 48) isobutyl alcohol          | 3.031 | 43   | 65514    | 221.42  | ug/L   | 90       |
| 49) tert-amyl alcohol         | 3.104 | 55   | 16379    | 117.91  | ug/L   | 96       |
| 52) iso-octane                | 2.910 | 57   | 190769   | 22.19   | ug/L   | 96       |
| 53) benzene                   | 2.989 | 78   | 214964   | 21.95   | ug/L   | 99       |
| 54) tert-amyl methyl ether    | 3.025 | 73   | 152706   | 21.51   | ug/L   | 98       |
| 55) heptane                   | 2.952 | 57   | 35401    | 22.92   | ug/L   | 96       |
| 56) isopropyl acetate         | 3.183 | 87   | 14737    | 21.07   | ug/L # | 90       |
| 57) 1,2-dichloroethane        | 3.088 | 62   | 74852    | 22.50   | ug/L   | 100      |
| 58) n-butyl alcohol           | 3.419 | 56   | 96705    | 1097.29 | ug/L   | 98       |
| 59) ethyl acrylate            | 3.555 | 55   | 75794    | 22.09   | ug/L   | 96       |
| 60) trichloroethene           | 3.288 | 130  | 66313    | 21.12   | ug/L   | 94       |
| 61) 2-nitropropane            | 4.247 | 41   | 18019    | 20.71   | ug/L   | 90       |
| 62) 2-chloroethyl vinyl ether | 3.917 | 63   | 153528   | 106.75  | ug/L   | 98       |
| 63) methyl methacrylate       | 3.670 | 100  | 17024    | 20.97   | ug/L   | 95       |
| 64) 1,2-dichloropropane       | 3.576 | 63   | 50003    | 21.82   | ug/L   | 100      |
| 65) methylcyclohexane         | 3.293 | 55   | 66169    | 22.69   | ug/L   | 95       |
| 66) dibromomethane            | 3.518 | 93   | 40740    | 21.88   | ug/L   | 94       |
| 67) bromodichloromethane      | 3.597 | 83   | 81553    | 21.65   | ug/L   | 97       |
| 68) epichlorohydrin           | 4.111 | 57   | 34271    | 110.27  | ug/L   | 91       |
| 69) cis-1,3-dichloropropene   | 3.964 | 75   | 84279    | 21.36   | ug/L   | 97       |
| 70) 4-methyl-2-pentanone      | 4.336 | 58   | 99005    | 86.47   | ug/L   | 98       |
| 71) 3-methyl-1-butanol        | 4.189 | 70   | 39148    | 416.93  | ug/L   | 97       |
| 74) toluene                   | 4.116 | 92   | 139176   | 21.84   | ug/L   | 100      |
| 75) ethyl methacrylate        | 4.452 | 69   | 71550    | 22.21   | ug/L   | 99       |
| 76) trans-1,3-dichloropropene | 4.362 | 75   | 81860    | 21.95   | ug/L   | 99       |
| 77) 1,1,2-trichloroethane     | 4.467 | 83   | 42364    | 21.71   | ug/L   | 98       |
| 78) tetrachloroethene         | 4.362 | 166  | 70441    | 20.70   | ug/L   | 98       |
| 79) 2-hexanone                | 4.881 | 58   | 100194   | 84.35   | ug/L   | 99       |
| 80) 1,3-dichloropropane       | 4.651 | 76   | 80120    | 21.82   | ug/L   | 97       |
| 81) butyl acetate             | 4.813 | 56   | 34256    | 21.65   | ug/L   | 96       |
| 82) dibromochloromethane      | 4.588 | 129  | 65431    | 21.14   | ug/L   | 96       |
| 83) 1,2-dibromoethane         | 4.750 | 107  | 58320    | 21.38   | ug/L   | 96       |
| 84) n-butyl ether             | 5.028 | 57   | 191281   | 21.69   | ug/L   | 99       |
| 85) chlorobenzene             | 5.102 | 112  | 160085   | 21.24   | ug/L   | 96       |
| 86) 1,1,1,2-tetrachloroethane | 5.144 | 131  | 59106    | 20.93   | ug/L   | 99       |
| 87) ethylbenzene              | 5.117 | 91   | 271791   | 21.76   | ug/L   | 98       |
| 88) m,p-xylene                | 5.222 | 106  | 204412   | 42.42   | ug/L   | 93       |
| 89) o-xylene                  | 5.526 | 106  | 96016    | 21.43   | ug/L   | 96       |

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VU2015\  
Data File : 1U49568.D  
Acq On : 28 Oct 2022 8:35 pm  
Operator : edwardd  
Sample : ic2015-20  
Misc : MS63374,V1U2015,5,,,1  
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 31 14:20:34 2022  
Quant Method : C:\MSDCHEM\1\METHODS\M1U2015.M  
Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um  
QLast Update : Mon Oct 31 14:19:53 2022  
Response via : Initial Calibration

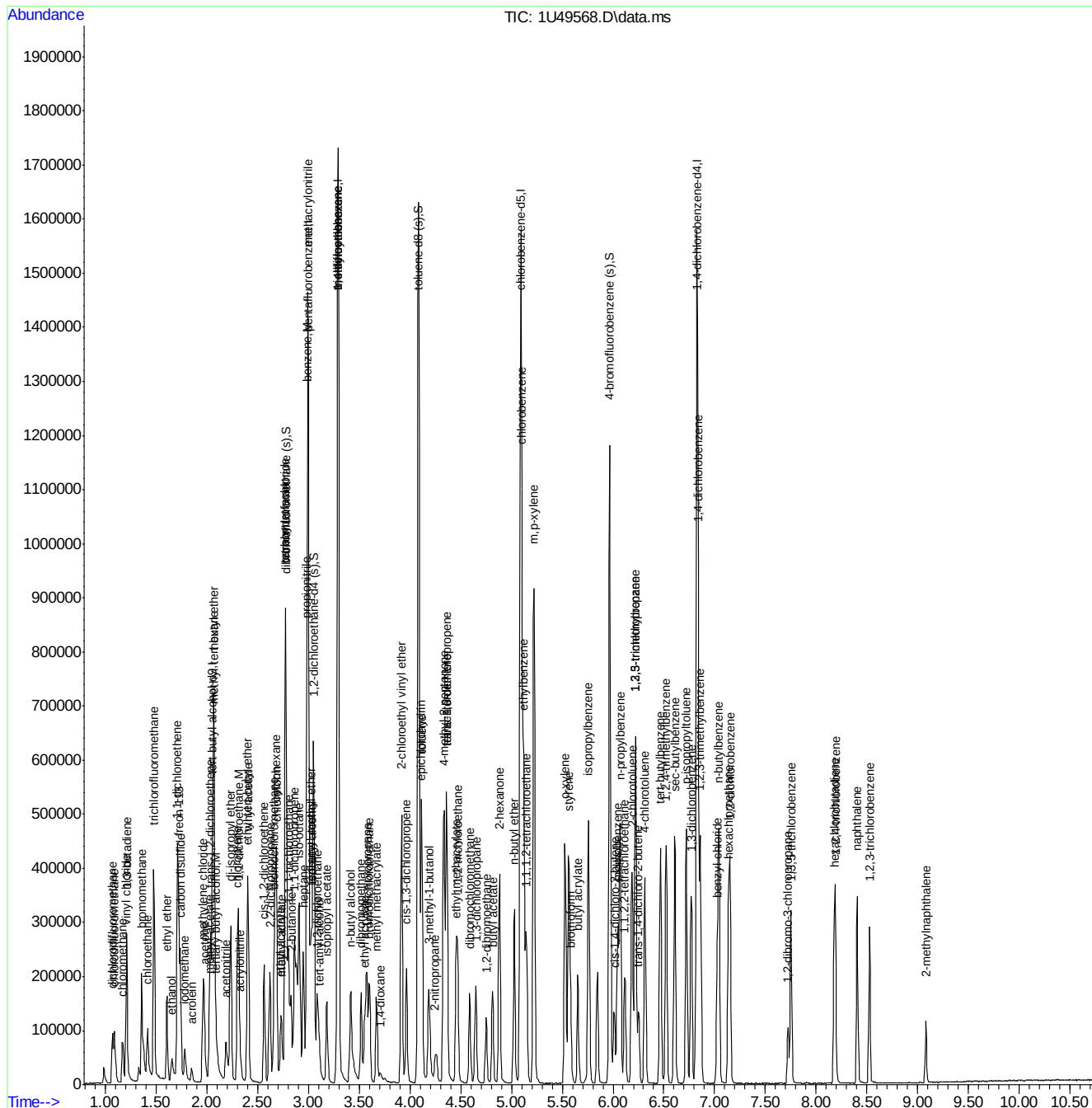
| Compound                       | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-------|-------|----------|
| 90) styrene                    | 5.563 | 104  | 159218   | 21.20 | ug/L  | 98       |
| 91) bromoform                  | 5.584 | 173  | 50473    | 19.94 | ug/L  | 98       |
| 92) butyl acrylate             | 5.652 | 55   | 96627    | 22.35 | ug/L  | 97       |
| 93) isopropylbenzene           | 5.757 | 105  | 262799   | 21.61 | ug/L  | 99       |
| 94) cis-1,4-dichloro-2-butene  | 6.014 | 88   | 28744    | 21.13 | ug/L  | 95       |
| 97) bromobenzene               | 6.045 | 156  | 67102    | 21.47 | ug/L  | 93       |
| 98) 1,1,2,2-tetrachloroethane  | 6.114 | 83   | 75056    | 23.30 | ug/L  | 100      |
| 99) trans-1,4-dichloro-2-b...  | 6.250 | 53   | 18463    | 23.56 | ug/L  | 89       |
| 100) 1,2,3-trichloropropane    | 6.218 | 110  | 23327    | 20.51 | ug/L  | 93       |
| 101) n-propylbenzene           | 6.072 | 91   | 301173   | 22.67 | ug/L  | 98       |
| 102) 2-chlorotoluene           | 6.187 | 126  | 61566    | 21.22 | ug/L  | 93       |
| 103) 4-chlorotoluene           | 6.313 | 91   | 172201   | 22.37 | ug/L  | 95       |
| 104) 1,3,5-trimethylbenzene    | 6.218 | 105  | 197671   | 21.97 | ug/L  | 99       |
| 105) tert-butylbenzene         | 6.465 | 119  | 176759   | 21.85 | ug/L  | 95       |
| 106) 1,2,4-trimethylbenzene    | 6.523 | 105  | 194037   | 21.99 | ug/L  | 99       |
| 107) sec-butylbenzene          | 6.606 | 105  | 261908   | 22.43 | ug/L  | 98       |
| 108) 1,3-dichlorobenzene       | 6.769 | 146  | 117508   | 21.30 | ug/L  | 96       |
| 109) p-isopropyltoluene        | 6.722 | 119  | 209730   | 21.60 | ug/L  | 98       |
| 110) 1,4-dichlorobenzene       | 6.837 | 146  | 118529   | 21.14 | ug/L  | 96       |
| 111) 1,2-dichlorobenzene       | 7.152 | 146  | 107643   | 21.58 | ug/L  | 97       |
| 112) 1,2,3-trimethylbenzene    | 6.858 | 105  | 191450   | 21.99 | ug/L  | 99       |
| 113) n-butylbenzene            | 7.042 | 92   | 107090   | 22.15 | ug/L  | 94       |
| 114) 1,2-dibromo-3-chloropr... | 7.723 | 157  | 19499    | 21.03 | ug/L  | 97       |
| 115) 1,3,5-trichlorobenzene    | 7.755 | 180  | 72540    | 21.17 | ug/L  | 98       |
| 116) 1,2,4-trichlorobenzene    | 8.190 | 180  | 60814    | 21.48 | ug/L  | 96       |
| 117) hexachlorobutadiene       | 8.179 | 225  | 29326    | 22.47 | ug/L  | 99       |
| 118) naphthalene               | 8.405 | 128  | 179939   | 21.03 | ug/L  | 99       |
| 119) 1,2,3-trichlorobenzene    | 8.525 | 180  | 58026    | 20.73 | ug/L  | 99       |
| 120) hexachloroethane          | 7.136 | 119  | 39056    | 21.53 | ug/L  | 95       |
| 121) benzyl chloride           | 7.026 | 126  | 25392    | 20.44 | ug/L  | 96       |
| 122) 2-methylnaphthalene       | 9.081 | 142  | 33976    | 10.32 | ug/L  | 98       |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VU2015\  
Data File : 1U49568.D  
Acq On : 28 Oct 2022 8:35 pm  
Operator : edwardd  
Sample : ic2015-20  
Misc : MS63374,V1U2015,5,,,,,1  
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 31 14:20:34 2022  
Quant Method : C:\MSDCHEM\1\METHODS\M1U2015.M  
Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um  
QLast Update : Mon Oct 31 14:19:53 2022  
Response via : Initial Calibration



M1U2015.M Wed Nov 02 17:15:30 2022

Page: 4

7.6.20



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VU2015\  
 Data File : 1U49570.D  
 Acq On : 28 Oct 2022 9:05 pm  
 Operator : edwardd  
 Sample : icc2015-50  
 Misc : MS63374,V1U2015,5,,,1  
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Oct 31 14:20:37 2022  
 Quant Method : C:\MSDCHEM\1\METHODS\M1U2015.M  
 Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um  
 QLast Update : Mon Oct 31 14:19:53 2022  
 Response via : Initial Calibration

| Compound                      | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|---------|--------|----------|
| Internal Standards            |                |      |            |         |        |          |
| 1) tert butyl alcohol-d9      | 2.056          | 65   | 345949     | 500.00  | ug/L   | 0.00     |
| 5) pentafluorobenzene         | 2.994          | 168  | 521315     | 50.00   | ug/L   | 0.00     |
| 50) 1,4-difluorobenzene       | 3.293          | 114  | 687028     | 50.00   | ug/L   | 0.00     |
| 72) chlorobenzene-d5          | 5.091          | 117  | 659177     | 50.00   | ug/L   | 0.00     |
| 95) 1,4-dichlorobenzene-d4    | 6.827          | 152  | 312679     | 50.00   | ug/L   | 0.00     |
| System Monitoring Compounds   |                |      |            |         |        |          |
| 42) dibromofluoromethane (s)  | 2.774          | 113  | 243317     | 50.00   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 127 |      | Recovery = | 100.00% |        |          |
| 51) 1,2-dichloroethane-d4 (s) | 3.052          | 65   | 265742     | 50.00   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 130 |      | Recovery = | 100.00% |        |          |
| 73) toluene-d8 (s)            | 4.085          | 98   | 807652     | 50.00   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 80 - 120 |      | Recovery = | 100.00% |        |          |
| 96) 4-bromofluorobenzene (s)  | 5.967          | 95   | 284712     | 50.00   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 79 - 127 |      | Recovery = | 100.00% |        |          |
| Target Compounds              |                |      |            |         |        |          |
|                               |                |      |            |         | Qvalue |          |
| 2) ethanol                    | 1.652          | 45   | 115295     | 5000.00 | ug/L   | 100      |
| 3) tertiary butyl alcohol     | 2.092          | 59   | 105115     | 250.09  | ug/L   | 100      |
| 4) 1,4-dioxane                | 3.707          | 88   | 46388      | 1250.00 | ug/L   | 100      |
| 6) chlorodifluoromethane      | 1.091          | 51   | 119865     | 50.00   | ug/L   | 100      |
| 7) dichlorodifluoromethane    | 1.070          | 85   | 188158     | 50.03   | ug/L   | 100      |
| 8) chloromethane              | 1.170          | 50   | 123972     | 50.00   | ug/L   | 100      |
| 9) vinyl chloride             | 1.201          | 62   | 167976     | 50.00   | ug/L   | 100      |
| 10) 1,3-butadiene             | 1.211          | 39   | 103522     | 50.00   | ug/L   | 100      |
| 11) bromomethane              | 1.353          | 96   | 160919     | 50.00   | ug/L   | # 100    |
| 12) chloroethane              | 1.416          | 64   | 127889     | 50.00   | ug/L   | 100      |
| 13) trichlorofluoromethane    | 1.479          | 101  | 445121     | 50.00   | ug/L   | 100      |
| 14) ethyl ether               | 1.605          | 74   | 90696      | 50.00   | ug/L   | 100      |
| 15) acrolein                  | 1.851          | 56   | 27591      | 50.00   | ug/L   | 100      |
| 16) freon 113                 | 1.720          | 151  | 139603     | 50.00   | ug/L   | 100      |
| 17) 1,1-dichloroethene        | 1.710          | 61   | 200687     | 50.00   | ug/L   | 100      |
| 18) acetone                   | 1.972          | 58   | 81138      | 200.00  | ug/L   | 100      |
| 19) acetonitrile              | 2.187          | 41   | 138649     | 500.00  | ug/L   | 100      |
| 20) iodomethane               | 1.783          | 142  | 126153     | 50.00   | ug/L   | 100      |
| 21) carbon disulfide          | 1.736          | 76   | 369764     | 50.00   | ug/L   | 100      |
| 22) methylene chloride        | 1.961          | 84   | 122232     | 50.00   | ug/L   | 100      |
| 23) methyl acetate            | 2.024          | 74   | 28473      | 50.00   | ug/L   | 100      |
| 24) methyl tert butyl ether   | 2.071          | 73   | 368761     | 50.00   | ug/L   | 100      |
| 25) trans-1,2-dichloroethene  | 2.035          | 61   | 175721     | 50.00   | ug/L   | 100      |
| 26) hexane                    | 2.066          | 57   | 257382     | 50.00   | ug/L   | 100      |
| 27) di-isopropyl ether        | 2.234          | 45   | 332823     | 50.00   | ug/L   | 100      |
| 28) ethyl tert-butyl ether    | 2.402          | 59   | 355373     | 50.00   | ug/L   | 100      |
| 29) 2-butanone                | 2.826          | 72   | 93361      | 200.00  | ug/L   | 100      |
| 30) 1,1-dichloroethane        | 2.313          | 63   | 230531     | 50.00   | ug/L   | 100      |
| 31) chloroprene               | 2.302          | 53   | 177070     | 50.00   | ug/L   | 100      |
| 32) acrylonitrile             | 2.328          | 52   | 38144      | 50.00   | ug/L   | 100      |
| 33) vinyl acetate             | 2.407          | 86   | 28853      | 50.00   | ug/L   | 100      |
| 34) ethyl acetate             | 2.727          | 70   | 16584      | 50.00   | ug/L   | 100      |

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VU2015\  
 Data File : 1U49570.D  
 Acq On : 28 Oct 2022 9:05 pm  
 Operator : edwardd  
 Sample : icc2015-50  
 Misc : MS63374,V1U2015,5,,,1  
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Oct 31 14:20:37 2022  
 Quant Method : C:\MSDCHEM\1\METHODS\M1U2015.M  
 Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um  
 QLast Update : Mon Oct 31 14:19:53 2022  
 Response via : Initial Calibration

| Compound                      | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|-------|------|----------|---------|-------|----------|
| 35) 2,2-dichloropropane       | 2.622 | 77   | 207220   | 50.00   | ug/L  | 100      |
| 36) cis-1,2-dichloroethene    | 2.564 | 96   | 143759   | 50.00   | ug/L  | 100      |
| 37) propionitrile             | 2.984 | 54   | 210430   | 500.00  | ug/L  | 100      |
| 38) methyl acrylate           | 2.737 | 85   | 30976    | 50.00   | ug/L  | 100      |
| 39) bromochloromethane        | 2.664 | 128  | 72543    | 50.00   | ug/L  | 100      |
| 40) tetrahydrofuran           | 2.774 | 71   | 21296    | 50.74   | ug/L  | 100      |
| 41) chloroform                | 2.685 | 47   | 64841    | 50.00   | ug/L  | 100      |
| 43) methacrylonitrile         | 2.994 | 67   | 64484    | 50.00   | ug/L  | 100      |
| 44) 1,1,1-trichloroethane     | 2.805 | 97   | 245203   | 50.00   | ug/L  | 100      |
| 45) cyclohexane               | 2.674 | 84   | 207026   | 50.00   | ug/L  | 100      |
| 46) 1,1-dichloropropene       | 2.863 | 75   | 185778   | 50.00   | ug/L  | 100      |
| 47) carbon tetrachloride      | 2.774 | 117  | 239258   | 53.43   | ug/L  | 100      |
| 48) isobutyl alcohol          | 3.026 | 43   | 158361   | 500.00  | ug/L  | 100      |
| 49) tert-amyl alcohol         | 3.104 | 55   | 37174    | 250.00  | ug/L  | 100      |
| 52) iso-octane                | 2.910 | 57   | 442476   | 50.00   | ug/L  | 100      |
| 53) benzene                   | 2.989 | 78   | 504222   | 50.00   | ug/L  | 100      |
| 54) tert-amyl methyl ether    | 3.026 | 73   | 365519   | 50.00   | ug/L  | 100      |
| 55) heptane                   | 2.952 | 57   | 79898    | 50.24   | ug/L  | 100      |
| 56) isopropyl acetate         | 3.183 | 87   | 36009    | 50.00   | ug/L  | 100      |
| 57) 1,2-dichloroethane        | 3.083 | 62   | 171247   | 50.00   | ug/L  | 100      |
| 58) n-butyl alcohol           | 3.419 | 56   | 226838   | 2500.00 | ug/L  | 100      |
| 59) ethyl acrylate            | 3.550 | 55   | 176618   | 50.00   | ug/L  | 100      |
| 60) trichloroethene           | 3.288 | 130  | 161658   | 50.00   | ug/L  | 100      |
| 61) 2-nitropropane            | 4.247 | 41   | 44782    | 50.00   | ug/L  | 100      |
| 62) 2-chloroethyl vinyl ether | 3.917 | 63   | 370188   | 250.00  | ug/L  | 100      |
| 63) methyl methacrylate       | 3.670 | 100  | 41790    | 50.00   | ug/L  | 100      |
| 64) 1,2-dichloropropane       | 3.576 | 63   | 117955   | 50.00   | ug/L  | 100      |
| 65) methylcyclohexane         | 3.293 | 55   | 150153   | 50.00   | ug/L  | 100      |
| 66) dibromomethane            | 3.518 | 93   | 95872    | 50.00   | ug/L  | 100      |
| 67) bromodichloromethane      | 3.597 | 83   | 193869   | 50.00   | ug/L  | 100      |
| 68) epichlorohydrin           | 4.111 | 57   | 79993    | 250.00  | ug/L  | 100      |
| 69) cis-1,3-dichloropropene   | 3.964 | 75   | 203136   | 50.00   | ug/L  | 100      |
| 70) 4-methyl-2-pentanone      | 4.336 | 58   | 235754   | 200.00  | ug/L  | 100      |
| 71) 3-methyl-1-butanol        | 4.190 | 70   | 96670    | 1000.00 | ug/L  | 100      |
| 74) toluene                   | 4.116 | 92   | 335144   | 50.00   | ug/L  | 100      |
| 75) ethyl methacrylate        | 4.452 | 69   | 169438   | 50.00   | ug/L  | 100      |
| 76) trans-1,3-dichloropropene | 4.363 | 75   | 196178   | 50.00   | ug/L  | 100      |
| 77) 1,1,2-trichloroethane     | 4.467 | 83   | 102638   | 50.00   | ug/L  | 100      |
| 78) tetrachloroethene         | 4.363 | 166  | 178963   | 50.00   | ug/L  | 100      |
| 79) 2-hexanone                | 4.882 | 58   | 249886   | 200.00  | ug/L  | 100      |
| 80) 1,3-dichloropropane       | 4.651 | 76   | 193141   | 50.00   | ug/L  | 100      |
| 81) butyl acetate             | 4.813 | 56   | 83224    | 50.00   | ug/L  | 100      |
| 82) dibromochloromethane      | 4.588 | 129  | 162762   | 50.00   | ug/L  | 100      |
| 83) 1,2-dibromoethane         | 4.751 | 107  | 143495   | 50.00   | ug/L  | 100      |
| 84) n-butyl ether             | 5.028 | 57   | 463782   | 50.00   | ug/L  | 100      |
| 85) chlorobenzene             | 5.102 | 112  | 396339   | 50.00   | ug/L  | 100      |
| 86) 1,1,1,2-tetrachloroethane | 5.144 | 131  | 148547   | 50.00   | ug/L  | 100      |
| 87) ethylbenzene              | 5.118 | 91   | 656913   | 50.00   | ug/L  | 100      |
| 88) m,p-xylene                | 5.222 | 106  | 506866   | 100.00  | ug/L  | 100      |
| 89) o-xylene                  | 5.527 | 106  | 235604   | 50.00   | ug/L  | 100      |



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VU2015\  
 Data File : 1U49570.D  
 Acq On : 28 Oct 2022 9:05 pm  
 Operator : edwardd  
 Sample : icc2015-50  
 Misc : MS63374,V1U2015,5,,,1  
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Oct 31 14:20:37 2022  
 Quant Method : C:\MSDCHEM\1\METHODS\M1U2015.M  
 Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um  
 QLast Update : Mon Oct 31 14:19:53 2022  
 Response via : Initial Calibration

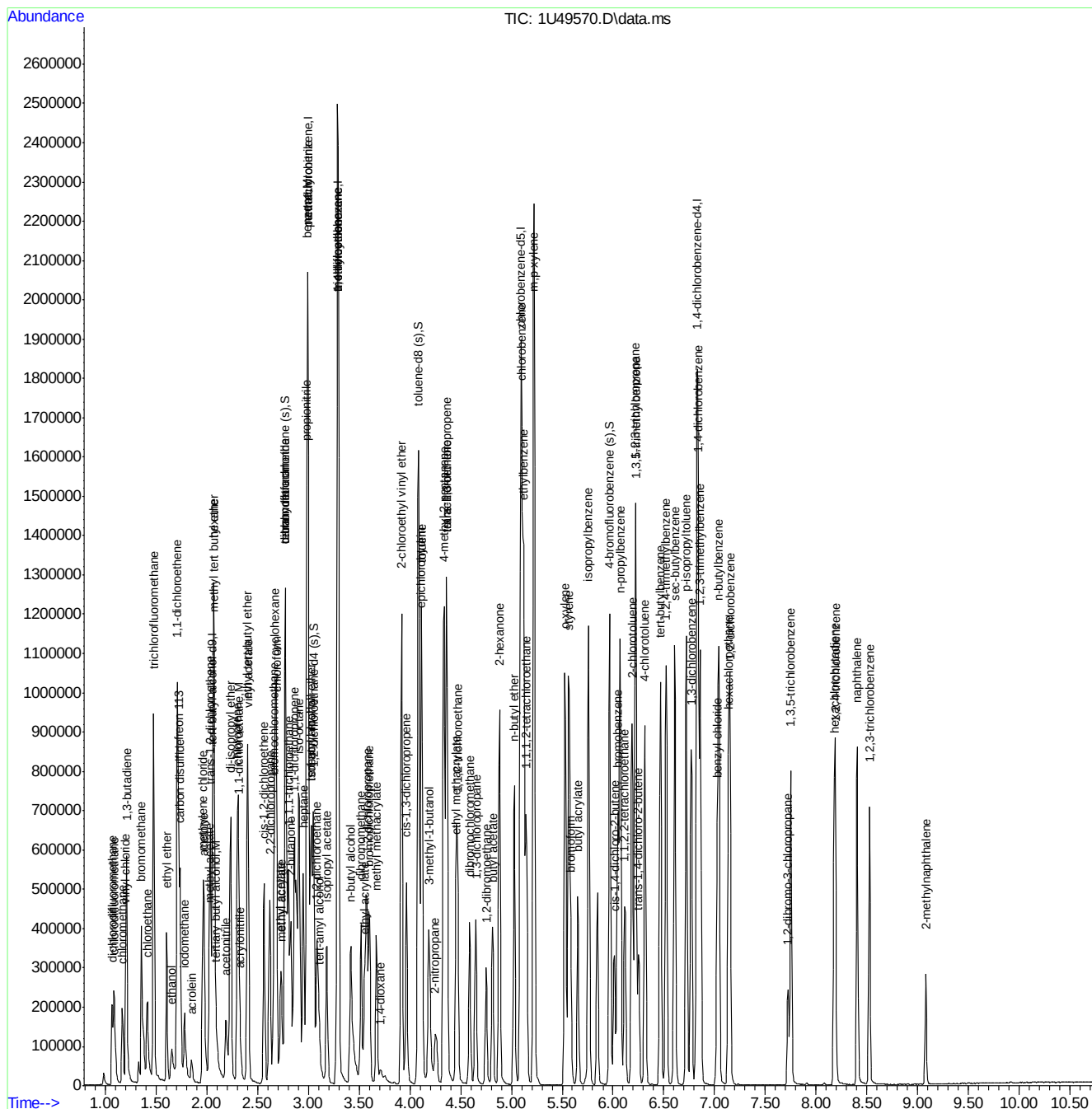
| Compound                       | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-------|-------|----------|
| 90) styrene                    | 5.563 | 104  | 395011   | 50.00 | ug/L  | 100      |
| 91) bromoform                  | 5.584 | 173  | 133109   | 50.00 | ug/L  | 100      |
| 92) butyl acrylate             | 5.652 | 55   | 227403   | 50.00 | ug/L  | 100      |
| 93) isopropylbenzene           | 5.757 | 105  | 639467   | 50.00 | ug/L  | 100      |
| 94) cis-1,4-dichloro-2-butene  | 6.014 | 88   | 71543    | 50.00 | ug/L  | 100      |
| 97) bromobenzene               | 6.046 | 156  | 168565   | 50.00 | ug/L  | 100      |
| 98) 1,1,2,2-tetrachloroethane  | 6.114 | 83   | 173798   | 50.00 | ug/L  | 100      |
| 99) trans-1,4-dichloro-2-b...  | 6.250 | 53   | 42265    | 50.00 | ug/L  | 100      |
| 100) 1,2,3-trichloropropane    | 6.219 | 110  | 61347    | 50.00 | ug/L  | 100      |
| 101) n-propylbenzene           | 6.072 | 91   | 716775   | 50.00 | ug/L  | 100      |
| 102) 2-chlorotoluene           | 6.187 | 126  | 156500   | 50.00 | ug/L  | 100      |
| 103) 4-chlorotoluene           | 6.313 | 91   | 415178   | 50.00 | ug/L  | 100      |
| 104) 1,3,5-trimethylbenzene    | 6.224 | 105  | 485322   | 50.00 | ug/L  | 100      |
| 105) tert-butylbenzene         | 6.465 | 119  | 436306   | 50.00 | ug/L  | 100      |
| 106) 1,2,4-trimethylbenzene    | 6.523 | 105  | 476061   | 50.00 | ug/L  | 100      |
| 107) sec-butylbenzene          | 6.607 | 105  | 629818   | 49.99 | ug/L  | 100      |
| 108) 1,3-dichlorobenzene       | 6.769 | 146  | 297555   | 50.00 | ug/L  | 100      |
| 109) p-isopropyltoluene        | 6.722 | 119  | 523809   | 50.00 | ug/L  | 100      |
| 110) 1,4-dichlorobenzene       | 6.837 | 146  | 302386   | 50.00 | ug/L  | 100      |
| 111) 1,2-dichlorobenzene       | 7.152 | 146  | 269096   | 50.00 | ug/L  | 100      |
| 112) 1,2,3-trimethylbenzene    | 6.858 | 105  | 469576   | 50.00 | ug/L  | 100      |
| 113) n-butylbenzene            | 7.042 | 92   | 260780   | 50.00 | ug/L  | 100      |
| 114) 1,2-dibromo-3-chloropr... | 7.723 | 157  | 50023    | 50.00 | ug/L  | 100      |
| 115) 1,3,5-trichlorobenzene    | 7.750 | 180  | 184805   | 50.00 | ug/L  | 100      |
| 116) 1,2,4-trichlorobenzene    | 8.190 | 180  | 152696   | 50.00 | ug/L  | 100      |
| 117) hexachlorobutadiene       | 8.179 | 225  | 70417    | 50.00 | ug/L  | 100      |
| 118) naphthalene               | 8.405 | 128  | 461612   | 50.00 | ug/L  | 100      |
| 119) 1,2,3-trichlorobenzene    | 8.526 | 180  | 150995   | 50.00 | ug/L  | 100      |
| 120) hexachloroethane          | 7.136 | 119  | 97869    | 50.00 | ug/L  | 100      |
| 121) benzyl chloride           | 7.026 | 126  | 67000    | 50.00 | ug/L  | 100      |
| 122) 2-methylnaphthalene       | 9.081 | 142  | 88822    | 25.00 | ug/L  | 100      |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VU2015\  
Data File : 1U49570.D  
Acq On : 28 Oct 2022 9:05 pm  
Operator : edwardd  
Sample : icc2015-50  
Misc : MS63374,V1U2015,5,,,,,1  
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Oct 31 14:20:37 2022  
Quant Method : C:\MSDCHEM\1\METHODS\M1U2015.M  
Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um  
QLast Update : Mon Oct 31 14:19:53 2022  
Response via : Initial Calibration



M1U2015.M Wed Nov 02 17:15:32 2022

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7.6.21

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VU2015\  
 Data File : 1U49572.D  
 Acq On : 28 Oct 2022 9:34 pm  
 Operator : edwardd  
 Sample : ic2015-100  
 Misc : MS63374,V1U2015,5,,,1  
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Oct 31 14:20:40 2022  
 Quant Method : C:\MSDCHEM\1\METHODS\M1U2015.M  
 Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um  
 QLast Update : Mon Oct 31 14:19:53 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|-------|----------|
| Internal Standards            |        |       |          |          |       |          |
| 1) tert butyl alcohol-d9      | 2.061  | 65    | 330183   | 500.00   | ug/L  | 0.00     |
| 5) pentafluorobenzene         | 2.999  | 168   | 581733   | 50.00    | ug/L  | 0.00     |
| 50) 1,4-difluorobenzene       | 3.293  | 114   | 724752   | 50.00    | ug/L  | 0.00     |
| 72) chlorobenzene-d5          | 5.091  | 117   | 684913   | 50.00    | ug/L  | 0.00     |
| 95) 1,4-dichlorobenzene-d4    | 6.827  | 152   | 322167   | 50.00    | ug/L  | 0.00     |
| System Monitoring Compounds   |        |       |          |          |       |          |
| 42) dibromofluoromethane (s)  | 2.779  | 113   | 248718   | 45.80    | ug/L  | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 127 | Recovery | =     | 91.60%   |
| 51) 1,2-dichloroethane-d4 (s) | 3.052  | 65    | 263007   | 46.91    | ug/L  | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 130 | Recovery | =     | 93.82%   |
| 73) toluene-d8 (s)            | 4.085  | 98    | 831317   | 49.53    | ug/L  | 0.00     |
| Spiked Amount                 | 50.000 | Range | 80 - 120 | Recovery | =     | 99.06%   |
| 96) 4-bromofluorobenzene (s)  | 5.967  | 95    | 281148   | 47.92    | ug/L  | 0.00     |
| Spiked Amount                 | 50.000 | Range | 79 - 127 | Recovery | =     | 95.84%   |
| Target Compounds              |        |       |          |          |       |          |
| 2) ethanol                    | 1.657  | 45    | 206374   | 9377.17  | ug/L  | 93       |
| 3) tertiary butyl alcohol     | 2.092  | 59    | 205138   | 511.36   | ug/L  | 95       |
| 4) 1,4-dioxane                | 3.712  | 88    | 97969    | 2765.99  | ug/L  | 99       |
| 6) chlorodifluoromethane      | 1.091  | 51    | 261928   | 97.91    | ug/L  | 98       |
| 7) dichlorodifluoromethane    | 1.070  | 85    | 424515   | 101.14   | ug/L  | 97       |
| 8) chloromethane              | 1.170  | 50    | 271620   | 98.17    | ug/L  | 99       |
| 9) vinyl chloride             | 1.206  | 62    | 359608   | 95.92    | ug/L  | 99       |
| 10) 1,3-butadiene             | 1.211  | 39    | 214312   | 92.76    | ug/L  | 98       |
| 11) bromomethane              | 1.358  | 96    | 332462   | 92.57    | ug/L  | # 97     |
| 12) chloroethane              | 1.411  | 64    | 282455   | 98.96    | ug/L  | 100      |
| 13) trichlorofluoromethane    | 1.479  | 101   | 990278   | 99.68    | ug/L  | 98       |
| 14) ethyl ether               | 1.605  | 74    | 195005   | 96.34    | ug/L  | 98       |
| 15) acrolein                  | 1.851  | 56    | 58415    | 94.86    | ug/L  | 97       |
| 16) freon 113                 | 1.720  | 151   | 324733   | 104.23   | ug/L  | 96       |
| 17) 1,1-dichloroethene        | 1.710  | 61    | 433881   | 96.87    | ug/L  | 97       |
| 18) acetone                   | 1.972  | 58    | 160707   | 354.99   | ug/L  | 94       |
| 19) acetonitrile              | 2.192  | 41    | 278031   | 898.51   | ug/L  | 99       |
| 20) iodomethane               | 1.783  | 142   | 300662   | 106.79   | ug/L  | 100      |
| 21) carbon disulfide          | 1.736  | 76    | 760549   | 92.16    | ug/L  | 99       |
| 22) methylene chloride        | 1.961  | 84    | 262294   | 96.15    | ug/L  | 96       |
| 23) methyl acetate            | 2.024  | 74    | 61113    | 96.17    | ug/L  | # 86     |
| 24) methyl tert butyl ether   | 2.071  | 73    | 782504   | 95.08    | ug/L  | 94       |
| 25) trans-1,2-dichloroethene  | 2.035  | 61    | 374517   | 95.50    | ug/L  | 98       |
| 26) hexane                    | 2.066  | 57    | 552629   | 96.21    | ug/L  | 96       |
| 27) di-isopropyl ether        | 2.234  | 45    | 707686   | 95.27    | ug/L  | 99       |
| 28) ethyl tert-butyl ether    | 2.402  | 59    | 752751   | 94.91    | ug/L  | 100      |
| 29) 2-butanone                | 2.832  | 72    | 192445   | 369.44   | ug/L  | 96       |
| 30) 1,1-dichloroethane        | 2.313  | 63    | 492588   | 95.74    | ug/L  | 100      |
| 31) chloroprene               | 2.302  | 53    | 392704   | 99.37    | ug/L  | 99       |
| 32) acrylonitrile             | 2.333  | 52    | 81355    | 95.57    | ug/L  | 99       |
| 33) vinyl acetate             | 2.407  | 86    | 63261    | 98.24    | ug/L  | 99       |
| 34) ethyl acetate             | 2.727  | 70    | 34878    | 94.23    | ug/L  | 94       |

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VU2015\  
 Data File : 1U49572.D  
 Acq On : 28 Oct 2022 9:34 pm  
 Operator : edwardd  
 Sample : ic2015-100  
 Misc : MS63374,V1U2015,5,,,1  
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Oct 31 14:20:40 2022  
 Quant Method : C:\MSDCHEM\1\METHODS\M1U2015.M  
 Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um  
 QLast Update : Mon Oct 31 14:19:53 2022  
 Response via : Initial Calibration

| Compound                      | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|-------|------|----------|---------|-------|----------|
| 35) 2,2-dichloropropane       | 2.622 | 77   | 439922   | 95.12   | ug/L  | 99       |
| 36) cis-1,2-dichloroethene    | 2.564 | 96   | 318973   | 99.42   | ug/L  | 98       |
| 37) propionitrile             | 2.989 | 54   | 426638   | 908.44  | ug/L  | 91       |
| 38) methyl acrylate           | 2.737 | 85   | 66456    | 96.13   | ug/L  | 100      |
| 39) bromochloromethane        | 2.664 | 128  | 151733   | 93.72   | ug/L  | 95       |
| 40) tetrahydrofuran           | 2.774 | 71   | 41305    | 88.19   | ug/L  | 87       |
| 41) chloroform                | 2.685 | 47   | 131686   | 91.00   | ug/L  | 95       |
| 43) methacrylonitrile         | 2.999 | 67   | 129790   | 90.19   | ug/L  | 76       |
| 44) 1,1,1-trichloroethane     | 2.805 | 97   | 521804   | 95.35   | ug/L  | 98       |
| 45) cyclohexane               | 2.674 | 84   | 453773   | 98.21   | ug/L  | 96       |
| 46) 1,1-dichloropropene       | 2.863 | 75   | 389380   | 93.91   | ug/L  | 97       |
| 47) carbon tetrachloride      | 2.774 | 117  | 509031   | 101.87  | ug/L  | 98       |
| 48) isobutyl alcohol          | 3.026 | 43   | 322182   | 911.59  | ug/L  | 97       |
| 49) tert-amyl alcohol         | 3.109 | 55   | 72329    | 435.90  | ug/L  | 97       |
| 52) iso-octane                | 2.910 | 57   | 931960   | 99.83   | ug/L  | 100      |
| 53) benzene                   | 2.989 | 78   | 1050789  | 98.78   | ug/L  | 100      |
| 54) tert-amyl methyl ether    | 3.026 | 73   | 760765   | 98.65   | ug/L  | 99       |
| 55) heptane                   | 2.952 | 57   | 172421   | 102.77  | ug/L  | 95       |
| 56) isopropyl acetate         | 3.183 | 87   | 77199    | 101.61  | ug/L  | 98       |
| 57) 1,2-dichloroethane        | 3.088 | 62   | 355203   | 98.31   | ug/L  | 98       |
| 58) n-butyl alcohol           | 3.424 | 56   | 466908   | 4877.99 | ug/L  | 99       |
| 59) ethyl acrylate            | 3.555 | 55   | 380297   | 102.06  | ug/L  | 96       |
| 60) trichloroethene           | 3.288 | 130  | 368459   | 108.03  | ug/L  | 99       |
| 61) 2-nitropropane            | 4.247 | 41   | 97381    | 103.07  | ug/L  | 99       |
| 62) 2-chloroethyl vinyl ether | 3.917 | 63   | 794848   | 508.85  | ug/L  | 100      |
| 63) methyl methacrylate       | 3.670 | 100  | 95083    | 107.84  | ug/L  | 94       |
| 64) 1,2-dichloropropane       | 3.576 | 63   | 254206   | 102.15  | ug/L  | 99       |
| 65) methylcyclohexane         | 3.293 | 55   | 317496   | 100.22  | ug/L  | 96       |
| 66) dibromomethane            | 3.518 | 93   | 206346   | 102.01  | ug/L  | 94       |
| 67) bromodichloromethane      | 3.602 | 83   | 410432   | 100.34  | ug/L  | 98       |
| 68) epichlorohydrin           | 4.111 | 57   | 163818   | 485.33  | ug/L  | 98       |
| 69) cis-1,3-dichloropropene   | 3.969 | 75   | 440786   | 102.85  | ug/L  | 96       |
| 70) 4-methyl-2-pentanone      | 4.336 | 58   | 483474   | 388.80  | ug/L  | 97       |
| 71) 3-methyl-1-butanol        | 4.190 | 70   | 207246   | 2032.26 | ug/L  | 99       |
| 74) toluene                   | 4.116 | 92   | 720405   | 103.44  | ug/L  | 98       |
| 75) ethyl methacrylate        | 4.452 | 69   | 354182   | 100.59  | ug/L  | 100      |
| 76) trans-1,3-dichloropropene | 4.363 | 75   | 400829   | 98.32   | ug/L  | 96       |
| 77) 1,1,2-trichloroethane     | 4.467 | 83   | 212337   | 99.55   | ug/L  | 99       |
| 78) tetrachloroethene         | 4.363 | 166  | 431816   | 116.11  | ug/L  | 97       |
| 79) 2-hexanone                | 4.882 | 58   | 511515   | 394.02  | ug/L  | 100      |
| 80) 1,3-dichloropropane       | 4.651 | 76   | 402476   | 100.28  | ug/L  | 98       |
| 81) butyl acetate             | 4.813 | 56   | 176731   | 102.19  | ug/L  | 99       |
| 82) dibromochloromethane      | 4.588 | 129  | 370398   | 109.51  | ug/L  | 98       |
| 83) 1,2-dibromoethane         | 4.751 | 107  | 315867   | 105.93  | ug/L  | 98       |
| 84) n-butyl ether             | 5.028 | 57   | 964528   | 100.08  | ug/L  | 100      |
| 85) chlorobenzene             | 5.107 | 112  | 844281   | 102.51  | ug/L  | 97       |
| 86) 1,1,1,2-tetrachloroethane | 5.149 | 131  | 319331   | 103.45  | ug/L  | 98       |
| 87) ethylbenzene              | 5.118 | 91   | 1317665  | 96.52   | ug/L  | 99       |
| 88) m,p-xylene                | 5.222 | 106  | 1032000  | 195.95  | ug/L  | 100      |
| 89) o-xylene                  | 5.527 | 106  | 502279   | 102.59  | ug/L  | 95       |

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VU2015\  
 Data File : 1U49572.D  
 Acq On : 28 Oct 2022 9:34 pm  
 Operator : edwardd  
 Sample : ic2015-100  
 Misc : MS63374,V1U2015,5,,,1  
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Oct 31 14:20:40 2022  
 Quant Method : C:\MSDCHEM\1\METHODS\M1U2015.M  
 Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um  
 QLast Update : Mon Oct 31 14:19:53 2022  
 Response via : Initial Calibration

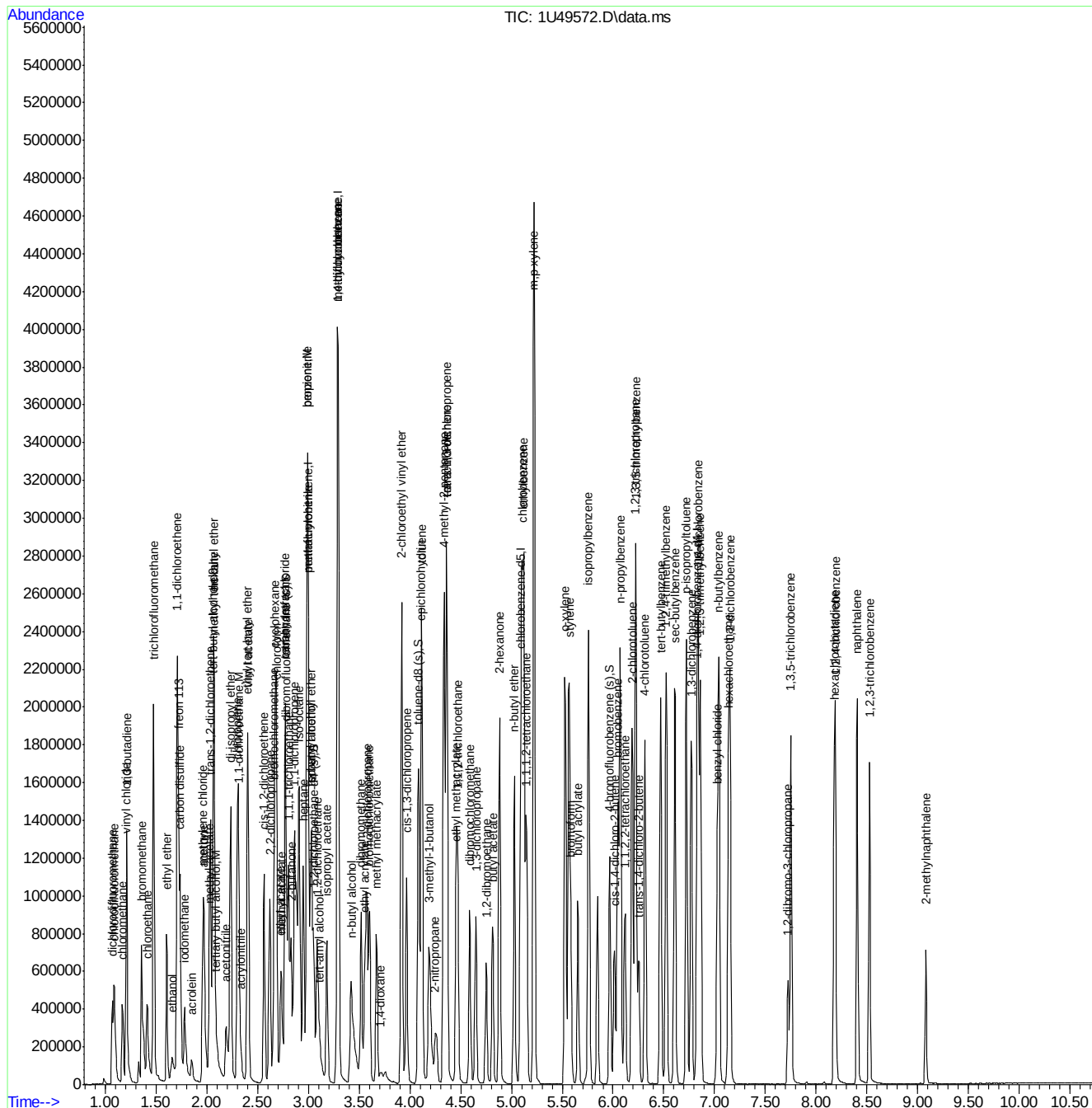
| Compound                       | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 90) styrene                    | 5.568 | 104  | 824833   | 100.48 | ug/L  | 98       |
| 91) bromoform                  | 5.584 | 173  | 309943   | 112.05 | ug/L  | 97       |
| 92) butyl acrylate             | 5.652 | 55   | 463388   | 98.06  | ug/L  | 99       |
| 93) isopropylbenzene           | 5.757 | 105  | 1317163  | 99.12  | ug/L  | 98       |
| 94) cis-1,4-dichloro-2-butene  | 6.014 | 88   | 150484   | 101.22 | ug/L  | 96       |
| 97) bromobenzene               | 6.046 | 156  | 399113   | 114.90 | ug/L  | 94       |
| 98) 1,1,2,2-tetrachloroethane  | 6.119 | 83   | 343017   | 95.78  | ug/L  | 99       |
| 99) trans-1,4-dichloro-2-b...  | 6.255 | 53   | 85950    | 98.69  | ug/L  | 95       |
| 100) 1,2,3-trichloropropane    | 6.219 | 110  | 114444   | 90.53  | ug/L  | 98       |
| 101) n-propylbenzene           | 6.072 | 91   | 1427169  | 96.62  | ug/L  | 98       |
| 102) 2-chlorotoluene           | 6.187 | 126  | 331826   | 102.89 | ug/L  | 94       |
| 103) 4-chlorotoluene           | 6.313 | 91   | 813497   | 95.08  | ug/L  | 99       |
| 104) 1,3,5-trimethylbenzene    | 6.224 | 105  | 968686   | 96.86  | ug/L  | 98       |
| 105) tert-butylbenzene         | 6.470 | 119  | 901153   | 100.23 | ug/L  | 95       |
| 106) 1,2,4-trimethylbenzene    | 6.523 | 105  | 964408   | 98.31  | ug/L  | 98       |
| 107) sec-butylbenzene          | 6.607 | 105  | 1257937  | 96.90  | ug/L  | 98       |
| 108) 1,3-dichlorobenzene       | 6.769 | 146  | 648446   | 105.75 | ug/L  | 99       |
| 109) p-isopropyltoluene        | 6.722 | 119  | 1087982  | 100.79 | ug/L  | 98       |
| 110) 1,4-dichlorobenzene       | 6.837 | 146  | 638791   | 102.51 | ug/L  | 99       |
| 111) 1,2-dichlorobenzene       | 7.152 | 146  | 590343   | 106.46 | ug/L  | 97       |
| 112) 1,2,3-trimethylbenzene    | 6.858 | 105  | 935657   | 96.69  | ug/L  | 99       |
| 113) n-butylbenzene            | 7.042 | 92   | 532759   | 99.14  | ug/L  | 99       |
| 114) 1,2-dibromo-3-chloropr... | 7.723 | 157  | 124184   | 120.47 | ug/L  | 93       |
| 115) 1,3,5-trichlorobenzene    | 7.750 | 180  | 466057   | 122.38 | ug/L  | 99       |
| 116) 1,2,4-trichlorobenzene    | 8.190 | 180  | 374640   | 119.06 | ug/L  | 97       |
| 117) hexachlorobutadiene       | 8.179 | 225  | 179392   | 123.63 | ug/L  | 98       |
| 118) naphthalene               | 8.405 | 128  | 1142093  | 120.06 | ug/L  | 99       |
| 119) 1,2,3-trichlorobenzene    | 8.526 | 180  | 380444   | 122.27 | ug/L  | 99       |
| 120) hexachloroethane          | 7.136 | 119  | 211072   | 104.66 | ug/L  | 91       |
| 121) benzyl chloride           | 7.026 | 126  | 146992   | 106.46 | ug/L  | 100      |
| 122) 2-methylnaphthalene       | 9.081 | 142  | 223707   | 61.11  | ug/L  | 99       |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VU2015\  
Data File : 1U49572.D  
Acq On : 28 Oct 2022 9:34 pm  
Operator : edwardd  
Sample : ic2015-100  
Misc : MS63374,V1U2015,5,,,,,1  
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Oct 31 14:20:40 2022  
Quant Method : C:\MSDCHEM\1\METHODS\M1U2015.M  
Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um  
QLast Update : Mon Oct 31 14:19:53 2022  
Response via : Initial Calibration



## 7.6.22



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VU2015\  
 Data File : 1U49574.D  
 Acq On : 28 Oct 2022 10:03 pm  
 Operator : edwardd  
 Sample : ic2015-200  
 Misc : MS63374,V1U2015,5,,,1  
 ALS Vial : 20 Sample Multiplier: 1

Quant Time: Nov 01 14:48:11 2022

Quant Method : C:\MSDCHEM\1\METHODS\M1U2015.M

Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um

QLast Update : Mon Oct 31 14:19:53 2022

Response via : Initial Calibration

| Compound                      | R.T.           | QIon | Response   | Conc    | Units | Dev(Min) |
|-------------------------------|----------------|------|------------|---------|-------|----------|
| Internal Standards            |                |      |            |         |       |          |
| 1) tert butyl alcohol-d9      | 2.066          | 65   | 309094     | 500.00  | ug/L  | 0.01     |
| 5) pentafluorobenzene         | 2.999          | 168  | 578381     | 50.00   | ug/L  | 0.00     |
| 50) 1,4-difluorobenzene       | 3.293          | 114  | 716989     | 50.00   | ug/L  | 0.00     |
| 72) chlorobenzene-d5          | 5.091          | 117  | 637052     | 50.00   | ug/L  | 0.00     |
| 95) 1,4-dichlorobenzene-d4    | 6.827          | 152  | 298434     | 50.00   | ug/L  | 0.00     |
| System Monitoring Compounds   |                |      |            |         |       |          |
| 42) dibromofluoromethane (s)  | 2.779          | 113  | 247284     | 45.80   | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 75 - 127 |      | Recovery = | 91.60%  |       |          |
| 51) 1,2-dichloroethane-d4 (s) | 3.052          | 65   | 238188     | 42.94   | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 75 - 130 |      | Recovery = | 85.88%  |       |          |
| 73) toluene-d8 (s)            | 4.085          | 98   | 804779     | 51.55   | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 80 - 120 |      | Recovery = | 103.10% |       |          |
| 96) 4-bromofluorobenzene (s)  | 5.967          | 95   | 259834     | 47.81   | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 79 - 127 |      | Recovery = | 95.62%  |       |          |
| Target Compounds              |                |      |            |         |       |          |
| 3) tertiary butyl alcohol     | 2.098          | 59   | 349769     | 931.38  | ug/L  | 97       |
| 4) 1,4-dioxane                | 3.718          | 88   | 178967     | 5397.58 | ug/L  | 93       |
| 6) chlorodifluoromethane      | 1.091          | 51   | 543543     | 204.36  | ug/L  | 98       |
| 7) dichlorodifluoromethane    | 1.070          | 85   | 877567     | 210.30  | ug/L  | 96       |
| 8) chloromethane              | 1.170          | 50   | 556891     | 202.44  | ug/L  | 99       |
| 9) vinyl chloride             | 1.206          | 62   | 687806     | 184.53  | ug/L  | 100      |
| 10) 1,3-butadiene             | 1.212          | 39   | 401878     | 174.95  | ug/L  | 99       |
| 11) bromomethane              | 1.358          | 96   | 576154     | 161.36  | ug/L  | # 95     |
| 12) chloroethane              | 1.411          | 64   | 529249     | 186.50  | ug/L  | 98       |
| 13) trichlorofluoromethane    | 1.474          | 101  | 1781533    | 180.37  | ug/L  | 99       |
| 14) ethyl ether               | 1.605          | 74   | 403861     | 200.68  | ug/L  | 96       |
| 15) acrolein                  | 1.851          | 56   | 116272     | 189.92  | ug/L  | 97       |
| 16) freon 113                 | 1.715          | 151  | 669273     | 216.06  | ug/L  | 98       |
| 17) 1,1-dichloroethene        | 1.704          | 61   | 888922     | 199.62  | ug/L  | 96       |
| 18) acetone                   | 1.977          | 58   | 211459     | 469.81  | ug/L  | 93       |
| 19) acetonitrile              | 2.192          | 41   | 494898     | 1608.63 | ug/L  | 96       |
| 21) carbon disulfide          | 1.736          | 76   | 1481275    | 180.54  | ug/L  | 99       |
| 22) methylene chloride        | 1.961          | 84   | 519304     | 191.47  | ug/L  | 99       |
| 23) methyl acetate            | 2.024          | 74   | 118150     | 187.01  | ug/L  | # 84     |
| 24) methyl tert butyl ether   | 2.071          | 73   | 1521598    | 185.96  | ug/L  | 92       |
| 25) trans-1,2-dichloroethene  | 2.035          | 61   | 740353     | 189.88  | ug/L  | 95       |
| 26) hexane                    | 2.066          | 57   | 1089095    | 190.70  | ug/L  | 92       |
| 27) di-isopropyl ether        | 2.234          | 45   | 1417722    | 191.97  | ug/L  | 100      |
| 28) ethyl tert-butyl ether    | 2.402          | 59   | 1474440    | 186.98  | ug/L  | 99       |
| 29) 2-butanone                | 2.832          | 72   | 329353     | 635.93  | ug/L  | 99       |
| 30) 1,1-dichloroethane        | 2.313          | 63   | 961741     | 188.01  | ug/L  | 100      |
| 31) chloroprene               | 2.302          | 53   | 773430     | 196.85  | ug/L  | 98       |
| 32) acrylonitrile             | 2.334          | 52   | 162843     | 192.40  | ug/L  | 99       |
| 33) vinyl acetate             | 2.407          | 86   | 136971     | 213.94  | ug/L  | 96       |
| 34) ethyl acetate             | 2.727          | 70   | 66463      | 180.61  | ug/L  | 96       |
| 35) 2,2-dichloropropane       | 2.622          | 77   | 850088     | 184.88  | ug/L  | 99       |
| 36) cis-1,2-dichloroethene    | 2.564          | 96   | 634288     | 198.84  | ug/L  | 98       |

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VU2015\  
 Data File : 1U49574.D  
 Acq On : 28 Oct 2022 10:03 pm  
 Operator : edwardd  
 Sample : ic2015-200  
 Misc : MS63374,V1U2015,5,,,1  
 ALS Vial : 20 Sample Multiplier: 1

Quant Time: Nov 01 14:48:11 2022

Quant Method : C:\MSDCHEM\1\METHODS\M1U2015.M

Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um

QLast Update : Mon Oct 31 14:19:53 2022

Response via : Initial Calibration

| Compound                      | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|-------|------|----------|---------|-------|----------|
| 37) propionitrile             | 2.989 | 54   | 796408   | 1705.63 | ug/L  | 93       |
| 38) methyl acrylate           | 2.743 | 85   | 127895   | 186.07  | ug/L  | 96       |
| 39) bromochloromethane        | 2.664 | 128  | 299464   | 186.04  | ug/L  | 97       |
| 40) tetrahydrofuran           | 2.774 | 71   | 76295    | 163.83  | ug/L  | 83       |
| 41) chloroform                | 2.685 | 47   | 255340   | 177.47  | ug/L  | 96       |
| 44) 1,1,1-trichloroethane     | 2.805 | 97   | 1011922  | 185.98  | ug/L  | 99       |
| 45) cyclohexane               | 2.674 | 84   | 862422   | 187.74  | ug/L  | 98       |
| 46) 1,1-dichloropropene       | 2.863 | 75   | 765699   | 185.75  | ug/L  | 96       |
| 47) carbon tetrachloride      | 2.774 | 117  | 1017562  | 204.83  | ug/L  | 98       |
| 48) isobutyl alcohol          | 3.026 | 43   | 587244   | 1671.19 | ug/L  | 94       |
| 52) iso-octane                | 2.910 | 57   | 1821308  | 197.21  | ug/L  | 96       |
| 53) benzene                   | 2.989 | 78   | 2011059  | 191.09  | ug/L  | 99       |
| 54) tert-amyl methyl ether    | 3.026 | 73   | 1420533  | 186.20  | ug/L  | 99       |
| 55) heptane                   | 2.952 | 57   | 340429   | 205.10  | ug/L  | 96       |
| 56) isopropyl acetate         | 3.183 | 87   | 148204   | 197.19  | ug/L  | 93       |
| 57) 1,2-dichloroethane        | 3.089 | 62   | 678478   | 189.82  | ug/L  | 98       |
| 58) n-butyl alcohol           | 3.424 | 56   | 909389   | 9603.64 | ug/L  | 100      |
| 59) ethyl acrylate            | 3.555 | 55   | 745805   | 202.31  | ug/L  | 98       |
| 60) trichloroethene           | 3.288 | 130  | 732915   | 217.21  | ug/L  | 98       |
| 61) 2-nitropropane            | 4.253 | 41   | 207786   | 222.30  | ug/L  | 85       |
| 62) 2-chloroethyl vinyl ether | 3.922 | 63   | 1551892  | 1004.25 | ug/L  | 98       |
| 63) methyl methacrylate       | 3.676 | 100  | 183417   | 210.28  | ug/L  | 85       |
| 64) 1,2-dichloropropane       | 3.576 | 63   | 495261   | 201.16  | ug/L  | 96       |
| 65) methylcyclohexane         | 3.293 | 55   | 624570   | 199.29  | ug/L  | 96       |
| 66) dibromomethane            | 3.519 | 93   | 395478   | 197.63  | ug/L  | 88       |
| 67) bromodichloromethane      | 3.602 | 83   | 781747   | 193.19  | ug/L  | 97       |
| 68) epichlorohydrin           | 4.116 | 57   | 311688   | 933.40  | ug/L  | 97       |
| 69) cis-1,3-dichloropropene   | 3.969 | 75   | 837871   | 197.62  | ug/L  | 98       |
| 70) 4-methyl-2-pentanone      | 4.336 | 58   | 918701   | 746.80  | ug/L  | 99       |
| 71) 3-methyl-1-butanol        | 4.195 | 70   | 402538   | 3990.04 | ug/L  | 99       |
| 74) toluene                   | 4.116 | 92   | 1373078  | 211.96  | ug/L  | 97       |
| 75) ethyl methacrylate        | 4.457 | 69   | 672125   | 205.23  | ug/L  | 96       |
| 76) trans-1,3-dichloropropene | 4.368 | 75   | 751476   | 198.18  | ug/L  | 95       |
| 77) 1,1,2-trichloroethane     | 4.468 | 83   | 394205   | 198.71  | ug/L  | 98       |
| 78) tetrachloroethene         | 4.363 | 166  | 816283   | 235.98  | ug/L  | 97       |
| 79) 2-hexanone                | 4.882 | 58   | 946503   | 783.86  | ug/L  | 99       |
| 80) 1,3-dichloropropane       | 4.651 | 76   | 751819   | 201.39  | ug/L  | 98       |
| 81) butyl acetate             | 4.819 | 56   | 337979   | 210.11  | ug/L  | 99       |
| 82) dibromochloromethane      | 4.593 | 129  | 695600   | 221.11  | ug/L  | 98       |
| 83) 1,2-dibromoethane         | 4.751 | 107  | 585305   | 211.03  | ug/L  | 97       |
| 84) n-butyl ether             | 5.029 | 57   | 1825459  | 203.64  | ug/L  | 98       |
| 85) chlorobenzene             | 5.107 | 112  | 1558002  | 203.38  | ug/L  | 98       |
| 86) 1,1,1,2-tetrachloroethane | 5.149 | 131  | 575188   | 200.33  | ug/L  | 98       |
| 87) ethylbenzene              | 5.123 | 91   | 2394588  | 188.59  | ug/L  | 97       |
| 88) m,p-xylene                | 5.223 | 106  | 1874548  | 382.68  | ug/L  | 98       |
| 89) o-xylene                  | 5.532 | 106  | 928333   | 203.85  | ug/L  | 95       |
| 90) styrene                   | 5.569 | 104  | 1492402  | 195.47  | ug/L  | 99       |
| 91) bromoform                 | 5.584 | 173  | 567959   | 220.75  | ug/L  | 97       |
| 92) butyl acrylate            | 5.658 | 55   | 901121   | 205.01  | ug/L  | 98       |
| 93) isopropylbenzene          | 5.763 | 105  | 2383513  | 192.84  | ug/L  | 96       |



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VU2015\  
 Data File : 1U49574.D  
 Acq On : 28 Oct 2022 10:03 pm  
 Operator : edwardd  
 Sample : ic2015-200  
 Misc : MS63374,V1U2015,5,,,1  
 ALS Vial : 20 Sample Multiplier: 1

Quant Time: Nov 01 14:48:11 2022

Quant Method : C:\MSDCHEM\1\METHODS\M1U2015.M

Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um

QLast Update : Mon Oct 31 14:19:53 2022

Response via : Initial Calibration

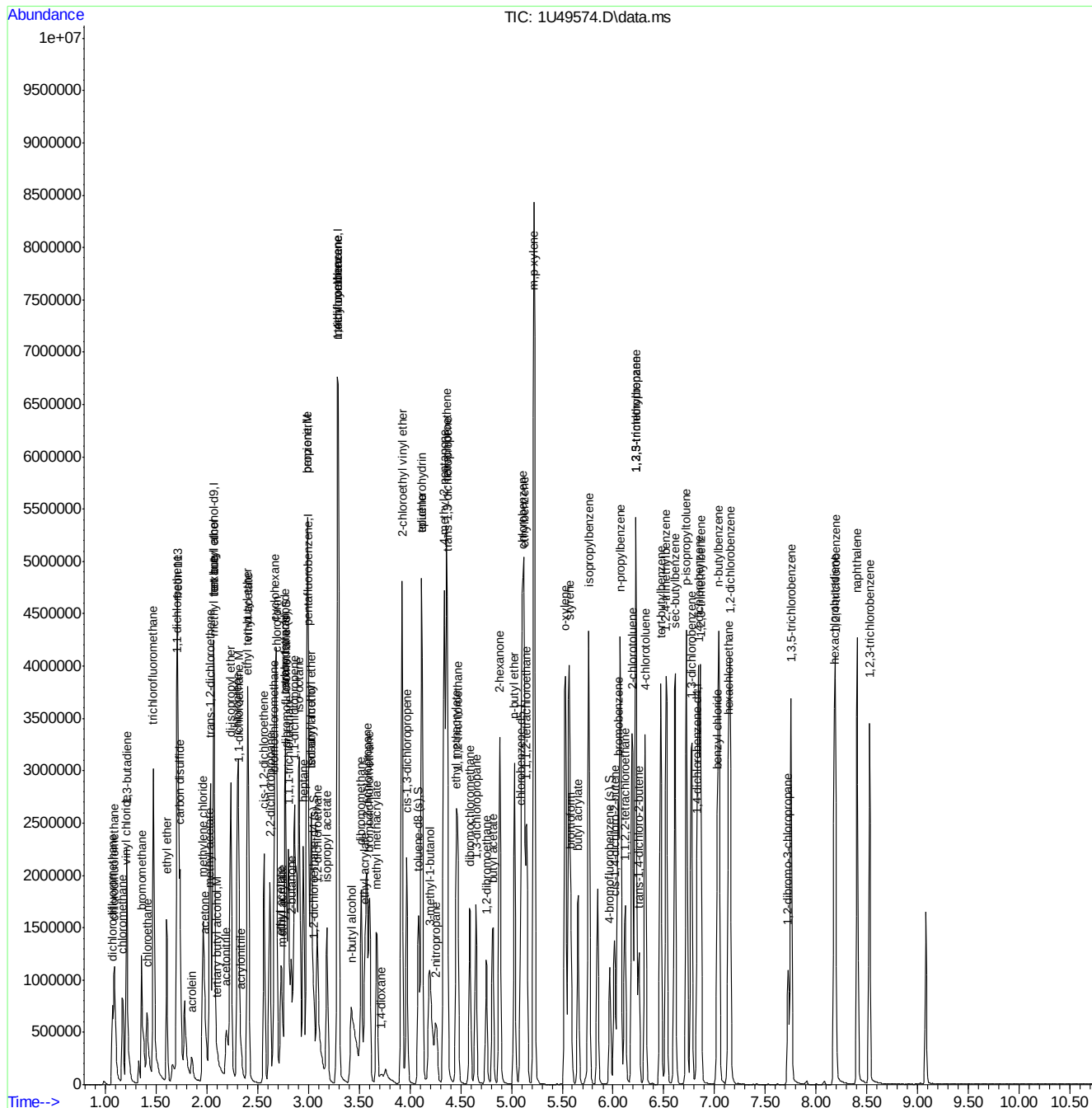
|      | Compound                  | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|------|---------------------------|-------|------|----------|--------|-------|----------|
| 94)  | cis-1,4-dichloro-2-butene | 6.014 | 88   | 292786   | 211.73 | ug/L  | 94       |
| 97)  | bromobenzene              | 6.051 | 156  | 734265   | 228.19 | ug/L  | 87       |
| 98)  | 1,1,2,2-tetrachloroethane | 6.119 | 83   | 641168   | 193.26 | ug/L  | 99       |
| 99)  | trans-1,4-dichloro-2-b... | 6.255 | 53   | 164976   | 204.48 | ug/L  | 95       |
| 100) | 1,2,3-trichloropropane    | 6.224 | 110  | 210441   | 179.70 | ug/L  | 100      |
| 101) | n-propylbenzene           | 6.072 | 91   | 2568053  | 187.69 | ug/L  | 99       |
| 102) | 2-chlorotoluene           | 6.187 | 126  | 604239   | 202.26 | ug/L  | 95       |
| 103) | 4-chlorotoluene           | 6.318 | 91   | 1486913  | 187.62 | ug/L  | 97       |
| 104) | 1,3,5-trimethylbenzene    | 6.224 | 105  | 1749944  | 188.89 | ug/L  | 98       |
| 105) | tert-butylbenzene         | 6.470 | 119  | 1649488  | 198.05 | ug/L  | 95       |
| 106) | 1,2,4-trimethylbenzene    | 6.523 | 105  | 1768708  | 194.63 | ug/L  | 97       |
| 107) | sec-butylbenzene          | 6.612 | 105  | 2279268  | 189.54 | ug/L  | 97       |
| 108) | 1,3-dichlorobenzene       | 6.774 | 146  | 1182648  | 208.21 | ug/L  | 97       |
| 109) | p-isopropyltoluene        | 6.722 | 119  | 2011215  | 201.14 | ug/L  | 99       |
| 110) | 1,4-dichlorobenzene       | 6.843 | 146  | 1169319  | 202.58 | ug/L  | 97       |
| 111) | 1,2-dichlorobenzene       | 7.152 | 146  | 1088555  | 211.92 | ug/L  | 98       |
| 112) | 1,2,3-trimethylbenzene    | 6.864 | 105  | 1722990  | 192.22 | ug/L  | 96       |
| 113) | n-butylbenzene            | 7.042 | 92   | 993556   | 199.59 | ug/L  | 98       |
| 114) | 1,2-dibromo-3-chloropr... | 7.723 | 157  | 258227   | 270.43 | ug/L  | 92       |
| 115) | 1,3,5-trichlorobenzene    | 7.755 | 180  | 961033   | 272.42 | ug/L  | 99       |
| 116) | 1,2,4-trichlorobenzene    | 8.190 | 180  | 797737   | 273.69 | ug/L  | 98       |
| 117) | hexachlorobutadiene       | 8.180 | 225  | 386208   | 287.32 | ug/L  | 98       |
| 118) | naphthalene               | 8.405 | 128  | 2278970  | 258.63 | ug/L  | 99       |
| 119) | 1,2,3-trichlorobenzene    | 8.526 | 180  | 805775   | 279.56 | ug/L  | 100      |
| 120) | hexachloroethane          | 7.136 | 119  | 397441   | 212.74 | ug/L  | 91       |
| 121) | benzyl chloride           | 7.026 | 126  | 285012   | 222.85 | ug/L  | 100      |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VU2015\  
 Data File : 1U49574.D  
 Acq On : 28 Oct 2022 10:03 pm  
 Operator : edwardd  
 Sample : ic2015-200  
 Misc : MS63374,V1U2015,5,,,,,1  
 ALS Vial : 20 Sample Multiplier: 1

Quant Time: Nov 01 14:48:11 2022  
 Quant Method : C:\MSDCHEM\1\METHODS\M1U2015.M  
 Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um  
 QLast Update : Mon Oct 31 14:19:53 2022  
 Response via : Initial Calibration



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VU2015\  
 Data File : 1U49580.D  
 Acq On : 28 Oct 2022 11:30 pm  
 Operator : edwardd  
 Sample : icv2015-50  
 Misc : MS63374,V1U2015,5,,,1  
 ALS Vial : 26 Sample Multiplier: 1

Quant Time: Nov 02 11:15:46 2022

Quant Method : C:\MSDCHEM\1\METHODS\M1U2015.M

Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um

QLast Update : Wed Nov 02 11:15:22 2022

Response via : Initial Calibration

| Compound                      | R.T.           | QIon | Response   | Conc    | Units | Dev(Min) |
|-------------------------------|----------------|------|------------|---------|-------|----------|
| Internal Standards            |                |      |            |         |       |          |
| 1) tert butyl alcohol-d9      | 2.056          | 65   | 369475     | 500.00  | ug/L  | 0.00     |
| 5) pentafluorobenzene         | 2.994          | 168  | 552118     | 50.00   | ug/L  | 0.00     |
| 50) 1,4-difluorobenzene       | 3.293          | 114  | 723283     | 50.00   | ug/L  | 0.00     |
| 72) chlorobenzene-d5          | 5.091          | 117  | 689636     | 50.00   | ug/L  | 0.00     |
| 95) 1,4-dichlorobenzene-d4    | 6.827          | 152  | 329975     | 50.00   | ug/L  | 0.00     |
| System Monitoring Compounds   |                |      |            |         |       |          |
| 42) dibromofluoromethane (s)  | 2.774          | 113  | 253141     | 47.25   | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 75 - 127 |      | Recovery = | 94.50%  |       |          |
| 51) 1,2-dichloroethane-d4 (s) | 3.052          | 65   | 274287     | 48.03   | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 75 - 130 |      | Recovery = | 96.06%  |       |          |
| 73) toluene-d8 (s)            | 4.085          | 98   | 844411     | 48.55   | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 80 - 120 |      | Recovery = | 97.10%  |       |          |
| 96) 4-bromofluorobenzene (s)  | 5.967          | 95   | 292834     | 47.43   | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 79 - 127 |      | Recovery = | 94.86%  |       |          |
| Target Compounds              |                |      |            |         |       |          |
|                               |                |      |            |         |       | Qvalue   |
| 2) ethanol                    | 1.652          | 45   | 122346     | 4268.57 | ug/L  | 99       |
| 3) tertiary butyl alcohol     | 2.092          | 59   | 121825     | 243.74  | ug/L  | 94       |
| 4) 1,4-dioxane                | 3.707          | 88   | 49661      | 1312.64 | ug/L  | 99       |
| 7) dichlorodifluoromethane    | 1.065          | 85   | 208591     | 49.07   | ug/L  | 96       |
| 8) chloromethane              | 1.170          | 50   | 142999     | 49.19   | ug/L  | 99       |
| 9) vinyl chloride             | 1.201          | 62   | 193638     | 50.16   | ug/L  | 99       |
| 10) 1,3-butadiene             | 1.212          | 39   | 154636     | 62.04   | ug/L  | 96       |
| 11) bromomethane              | 1.353          | 96   | 180872     | 49.18   | ug/L  | # 99     |
| 12) chloroethane              | 1.416          | 64   | 150102     | 50.73   | ug/L  | 97       |
| 13) trichlorofluoromethane    | 1.479          | 101  | 482815     | 48.67   | ug/L  | 99       |
| 14) ethyl ether               | 1.605          | 74   | 93403      | 43.83   | ug/L  | 98       |
| 15) acrolein                  | 1.851          | 56   | 33069      | 55.18   | ug/L  | 99       |
| 16) freon 113                 | 1.720          | 151  | 137551     | 41.63   | ug/L  | 100      |
| 17) 1,1-dichloroethene        | 1.710          | 61   | 208531     | 43.46   | ug/L  | 99       |
| 18) acetone                   | 1.972          | 58   | 88845      | 223.01  | ug/L  | 94       |
| 20) iodomethane               | 1.783          | 142  | 127561     | 46.86   | ug/L  | 100      |
| 21) carbon disulfide          | 1.736          | 76   | 381176     | 43.22   | ug/L  | 99       |
| 22) methylene chloride        | 1.961          | 84   | 129202     | 46.43   | ug/L  | 98       |
| 23) methyl acetate            | 2.024          | 74   | 33123      | 52.88   | ug/L  | # 80     |
| 24) methyl tert butyl ether   | 2.071          | 73   | 401888     | 47.67   | ug/L  | 90       |
| 25) trans-1,2-dichloroethene  | 2.035          | 61   | 181434     | 48.59   | ug/L  | 98       |
| 26) hexane                    | 2.066          | 57   | 310544     | 51.73   | ug/L  | 99       |
| 27) di-isopropyl ether        | 2.234          | 45   | 357365     | 46.57   | ug/L  | 99       |
| 28) ethyl tert-butyl ether    | 2.402          | 59   | 366830     | 45.05   | ug/L  | 99       |
| 29) 2-butanone                | 2.826          | 72   | 105309     | 199.96  | ug/L  | 98       |
| 30) 1,1-dichloroethane        | 2.313          | 63   | 234606     | 43.87   | ug/L  | 99       |
| 31) chloroprene               | 2.302          | 53   | 188175     | 44.82   | ug/L  | 98       |
| 33) vinyl acetate             | 2.407          | 86   | 24436      | 37.33   | ug/L  | # 83     |
| 34) ethyl acetate             | 2.727          | 70   | 17836      | 47.25   | ug/L  | 97       |
| 35) 2,2-dichloropropane       | 2.617          | 77   | 205123     | 42.10   | ug/L  | 98       |
| 36) cis-1,2-dichloroethene    | 2.564          | 96   | 150944     | 44.59   | ug/L  | 98       |
| 37) propionitrile             | 2.984          | 54   | 210112     | 426.86  | ug/L  | 99       |

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VU2015\  
 Data File : 1U49580.D  
 Acq On : 28 Oct 2022 11:30 pm  
 Operator : edwardd  
 Sample : icv2015-50  
 Misc : MS63374,V1U2015,5,,,1  
 ALS Vial : 26 Sample Multiplier: 1

Quant Time: Nov 02 11:15:46 2022  
 Quant Method : C:\MSDCHEM\1\METHODS\M1U2015.M  
 Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um  
 QLast Update : Wed Nov 02 11:15:22 2022  
 Response via : Initial Calibration

| Compound                      | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|---------|--------|----------|
| 38) methyl acrylate           | 2.737 | 85   | 33192    | 48.88   | ug/L   | 98       |
| 39) bromochloromethane        | 2.664 | 128  | 74882    | 46.27   | ug/L   | 96       |
| 40) tetrahydrofuran           | 2.769 | 71   | 21153    | 44.22   | ug/L   | 85       |
| 41) chloroform                | 2.685 | 47   | 71130    | 55.19   | ug/L   | 99       |
| 43) methacrylonitrile         | 2.994 | 67   | 68195    | 42.76   | ug/L # | 72       |
| 44) 1,1,1-trichloroethane     | 2.805 | 97   | 255102   | 45.86   | ug/L   | 99       |
| 45) cyclohexane               | 2.674 | 84   | 262587   | 57.58   | ug/L   | 99       |
| 46) 1,1-dichloropropene       | 2.858 | 75   | 190335   | 43.61   | ug/L   | 96       |
| 47) carbon tetrachloride      | 2.774 | 117  | 250309   | 44.80   | ug/L   | 99       |
| 48) isobutyl alcohol          | 3.026 | 43   | 168187   | 485.56  | ug/L   | 96       |
| 49) tert-amyl alcohol         | 3.104 | 55   | 39838    | 205.19  | ug/L   | 94       |
| 52) iso-octane                | 2.910 | 57   | 392637   | 38.12   | ug/L   | 98       |
| 53) benzene                   | 2.989 | 78   | 515873   | 44.62   | ug/L   | 99       |
| 54) tert-amyl methyl ether    | 3.026 | 73   | 370662   | 47.08   | ug/L   | 99       |
| 55) heptane                   | 2.947 | 57   | 76353    | 41.44   | ug/L   | 90       |
| 56) isopropyl acetate         | 3.183 | 87   | 38691    | 49.31   | ug/L   | 95       |
| 57) 1,2-dichloroethane        | 3.083 | 62   | 179539   | 44.48   | ug/L   | 99       |
| 58) n-butyl alcohol           | 3.419 | 56   | 253548   | 2400.14 | ug/L   | 99       |
| 59) ethyl acrylate            | 3.550 | 55   | 185641   | 45.95   | ug/L   | 99       |
| 60) trichloroethene           | 3.288 | 130  | 176097   | 48.35   | ug/L   | 96       |
| 61) 2-nitropropane            | 4.247 | 41   | 54522    | 52.38   | ug/L # | 60       |
| 62) 2-chloroethyl vinyl ether | 3.917 | 63   | 357679   | 237.29  | ug/L   | 100      |
| 63) methyl methacrylate       | 3.670 | 100  | 48958    | 53.93   | ug/L   | 93       |
| 64) 1,2-dichloropropane       | 3.571 | 63   | 124590   | 47.59   | ug/L   | 95       |
| 65) methylcyclohexane         | 3.293 | 55   | 150821   | 40.99   | ug/L   | 98       |
| 66) dibromomethane            | 3.518 | 93   | 101288   | 47.58   | ug/L   | 97       |
| 67) bromodichloromethane      | 3.597 | 83   | 207291   | 46.98   | ug/L   | 98       |
| 68) epichlorohydrin           | 4.111 | 57   | 83281    | 224.13  | ug/L   | 99       |
| 69) cis-1,3-dichloropropene   | 3.964 | 75   | 211980   | 46.43   | ug/L   | 99       |
| 70) 4-methyl-2-pentanone      | 4.336 | 58   | 254522   | 188.88  | ug/L   | 97       |
| 71) 3-methyl-1-butanol        | 4.190 | 70   | 106628   | 1024.45 | ug/L   | 99       |
| 74) toluene                   | 4.116 | 92   | 352823   | 46.37   | ug/L   | 100      |
| 75) ethyl methacrylate        | 4.452 | 69   | 173308   | 44.95   | ug/L   | 99       |
| 76) trans-1,3-dichloropropene | 4.363 | 75   | 205266   | 47.43   | ug/L   | 98       |
| 77) 1,1,2-trichloroethane     | 4.467 | 83   | 110790   | 48.96   | ug/L   | 98       |
| 79) 2-hexanone                | 4.882 | 58   | 276900   | 193.30  | ug/L   | 99       |
| 80) 1,3-dichloropropane       | 4.651 | 76   | 203892   | 47.03   | ug/L   | 100      |
| 81) butyl acetate             | 4.813 | 56   | 95363    | 51.42   | ug/L   | 99       |
| 82) dibromochloromethane      | 4.588 | 129  | 181395   | 49.63   | ug/L   | 97       |
| 83) 1,2-dibromoethane         | 4.751 | 107  | 155964   | 47.95   | ug/L   | 96       |
| 84) n-butyl ether             | 5.028 | 57   | 483410   | 46.14   | ug/L   | 99       |
| 85) chlorobenzene             | 5.102 | 112  | 427982   | 48.22   | ug/L   | 99       |
| 86) 1,1,1,2-tetrachloroethane | 5.144 | 131  | 164072   | 51.25   | ug/L   | 98       |
| 87) ethylbenzene              | 5.118 | 91   | 689849   | 46.36   | ug/L   | 100      |
| 88) m,p-xylene                | 5.222 | 106  | 540374   | 100.14  | ug/L   | 98       |
| 89) o-xylene                  | 5.527 | 106  | 252020   | 49.12   | ug/L   | 98       |
| 90) styrene                   | 5.563 | 104  | 428294   | 50.95   | ug/L   | 99       |
| 91) bromoform                 | 5.584 | 173  | 150840   | 52.49   | ug/L   | 97       |
| 92) butyl acrylate            | 5.652 | 55   | 247056   | 49.47   | ug/L   | 98       |
| 93) isopropylbenzene          | 5.757 | 105  | 693437   | 49.39   | ug/L   | 99       |

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VU2015\  
 Data File : 1U49580.D  
 Acq On : 28 Oct 2022 11:30 pm  
 Operator : edwardd  
 Sample : icv2015-50  
 Misc : MS63374,V1U2015,5,,,1  
 ALS Vial : 26 Sample Multiplier: 1

Quant Time: Nov 02 11:15:46 2022

Quant Method : C:\MSDCHEM\1\METHODS\M1U2015.M

Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um

QLast Update : Wed Nov 02 11:15:22 2022

Response via : Initial Calibration

| Compound                       | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-------|-------|----------|
| 94) cis-1,4-dichloro-2-butene  | 6.014 | 88   | 72197    | 47.21 | ug/L  | 93       |
| 97) bromobenzene               | 6.046 | 156  | 189485   | 50.21 | ug/L  | 97       |
| 98) 1,1,2,2-tetrachloroethane  | 6.114 | 83   | 185789   | 44.33 | ug/L  | 98       |
| 99) trans-1,4-dichloro-2-b...  | 6.250 | 53   | 48326    | 49.92 | ug/L  | 96       |
| 100) 1,2,3-trichloropropane    | 6.219 | 110  | 65094    | 50.21 | ug/L  | 99       |
| 101) n-propylbenzene           | 6.072 | 91   | 762447   | 46.86 | ug/L  | 99       |
| 102) 2-chlorotoluene           | 6.187 | 126  | 170115   | 48.61 | ug/L  | 97       |
| 103) 4-chlorotoluene           | 6.313 | 91   | 440615   | 46.45 | ug/L  | 99       |
| 104) 1,3,5-trimethylbenzene    | 6.219 | 105  | 523805   | 48.13 | ug/L  | 99       |
| 105) tert-butylbenzene         | 6.470 | 119  | 517180   | 52.81 | ug/L  | 93       |
| 106) 1,2,4-trimethylbenzene    | 6.523 | 105  | 512163   | 48.48 | ug/L  | 100      |
| 107) sec-butylbenzene          | 6.607 | 105  | 679524   | 47.80 | ug/L  | 98       |
| 108) 1,3-dichlorobenzene       | 6.769 | 146  | 329242   | 48.99 | ug/L  | 100      |
| 109) p-isopropyltoluene        | 6.722 | 119  | 573281   | 49.68 | ug/L  | 99       |
| 110) 1,4-dichlorobenzene       | 6.837 | 146  | 329227   | 48.87 | ug/L  | 98       |
| 111) 1,2-dichlorobenzene       | 7.152 | 146  | 295734   | 48.08 | ug/L  | 97       |
| 113) n-butylbenzene            | 7.042 | 92   | 275292   | 48.17 | ug/L  | 98       |
| 114) 1,2-dibromo-3-chloropr... | 7.723 | 157  | 55388    | 46.72 | ug/L  | 98       |
| 115) 1,3,5-trichlorobenzene    | 7.750 | 180  | 203354   | 47.56 | ug/L  | 98       |
| 116) 1,2,4-trichlorobenzene    | 8.190 | 180  | 172294   | 49.00 | ug/L  | 99       |
| 117) hexachlorobutadiene       | 8.180 | 225  | 80836    | 47.11 | ug/L  | 99       |
| 118) naphthalene               | 8.405 | 128  | 512464   | 48.56 | ug/L  | 99       |
| 119) 1,2,3-trichlorobenzene    | 8.526 | 180  | 168168   | 48.16 | ug/L  | 99       |
| 120) hexachloroethane          | 7.136 | 119  | 107119   | 51.54 | ug/L  | 95       |
| 121) benzyl chloride           | 7.026 | 126  | 65176    | 45.50 | ug/L  | 96       |
| 122) 2-methylnaphthalene       | 9.081 | 142  | 98218    | 26.38 | ug/L  | 98       |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

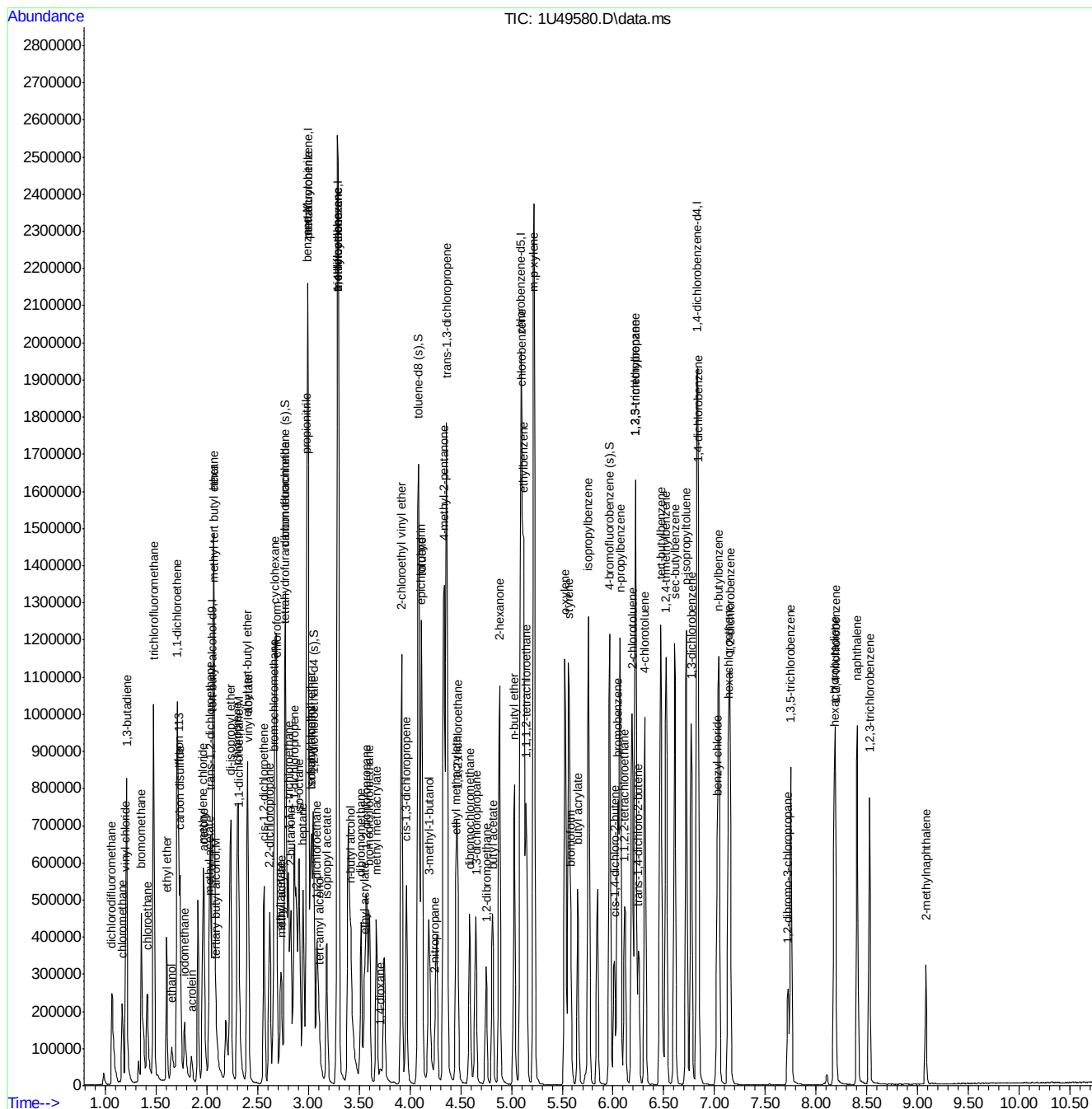
7.6.24

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VU2015\  
Data File : 1U49580.D  
Acq On : 28 Oct 2022 11:30 pm  
Operator : edwardd  
Sample : icv2015-50  
Misc : MS63374,V1U2015,5,,,,,1  
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Nov 02 11:15:46 2022  
Quant Method : C:\MSDCHEM\1\METHODS\M1U2015.M  
Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um  
QLast Update : Wed Nov 02 11:15:22 2022  
Response via : Initial Calibration



## 7.6.24



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VU2015\  
 Data File : 1U49582.D  
 Acq On : 28 Oct 2022 11:59 pm  
 Operator : edwardd  
 Sample : icv2015-50  
 Misc : MS63374,V1U2015,5,,,,1  
 ALS Vial : 28 Sample Multiplier: 1

Quant Time: Nov 01 14:49:40 2022  
 Quant Method : C:\MSDCHEM\1\METHODS\M1U2015.M  
 Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um  
 QLast Update : Mon Oct 31 14:52:57 2022  
 Response via : Initial Calibration

| Compound                      | R.T.           | QIon | Response   | Conc    | Units | Dev(Min) |
|-------------------------------|----------------|------|------------|---------|-------|----------|
| Internal Standards            |                |      |            |         |       |          |
| 1) tert butyl alcohol-d9      | 2.056          | 65   | 411083     | 500.00  | ug/L  | 0.00     |
| 5) pentafluorobenzene         | 2.994          | 168  | 560012     | 50.00   | ug/L  | 0.00     |
| 50) 1,4-difluorobenzene       | 3.293          | 114  | 761816     | 50.00   | ug/L  | 0.00     |
| 72) chlorobenzene-d5          | 5.091          | 117  | 699725     | 50.00   | ug/L  | 0.00     |
| 95) 1,4-dichlorobenzene-d4    | 6.827          | 152  | 322364     | 50.00   | ug/L  | 0.00     |
| System Monitoring Compounds   |                |      |            |         |       |          |
| 42) dibromofluoromethane (s)  | 2.774          | 113  | 276780     | 50.94   | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 75 - 127 |      | Recovery = | 101.88% |       |          |
| 51) 1,2-dichloroethane-d4 (s) | 3.052          | 65   | 299142     | 49.73   | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 75 - 130 |      | Recovery = | 99.46%  |       |          |
| 73) toluene-d8 (s)            | 4.085          | 98   | 899089     | 50.95   | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 80 - 120 |      | Recovery = | 101.90% |       |          |
| 96) 4-bromofluorobenzene (s)  | 5.967          | 95   | 311813     | 51.70   | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 79 - 127 |      | Recovery = | 103.40% |       |          |
| Target Compounds              |                |      |            |         |       |          |
| 6) chlorodifluoromethane      | 1.086          | 51   | 151004     | 52.86   | ug/L  | 96       |
| 19) acetonitrile              | 2.187          | 41   | 201965     | 624.76  | ug/L  | 98       |
| 32) acrylonitrile             | 2.328          | 52   | 48670      | 56.56   | ug/L  | 94       |
| 78) tetrachloroethene         | 4.362          | 166  | 192749     | 48.99   | ug/L  | 99       |
| 112) 1,2,3-trimethylbenzene   | 6.858          | 105  | 536610     | 52.74   | ug/L  | 99       |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.6.25

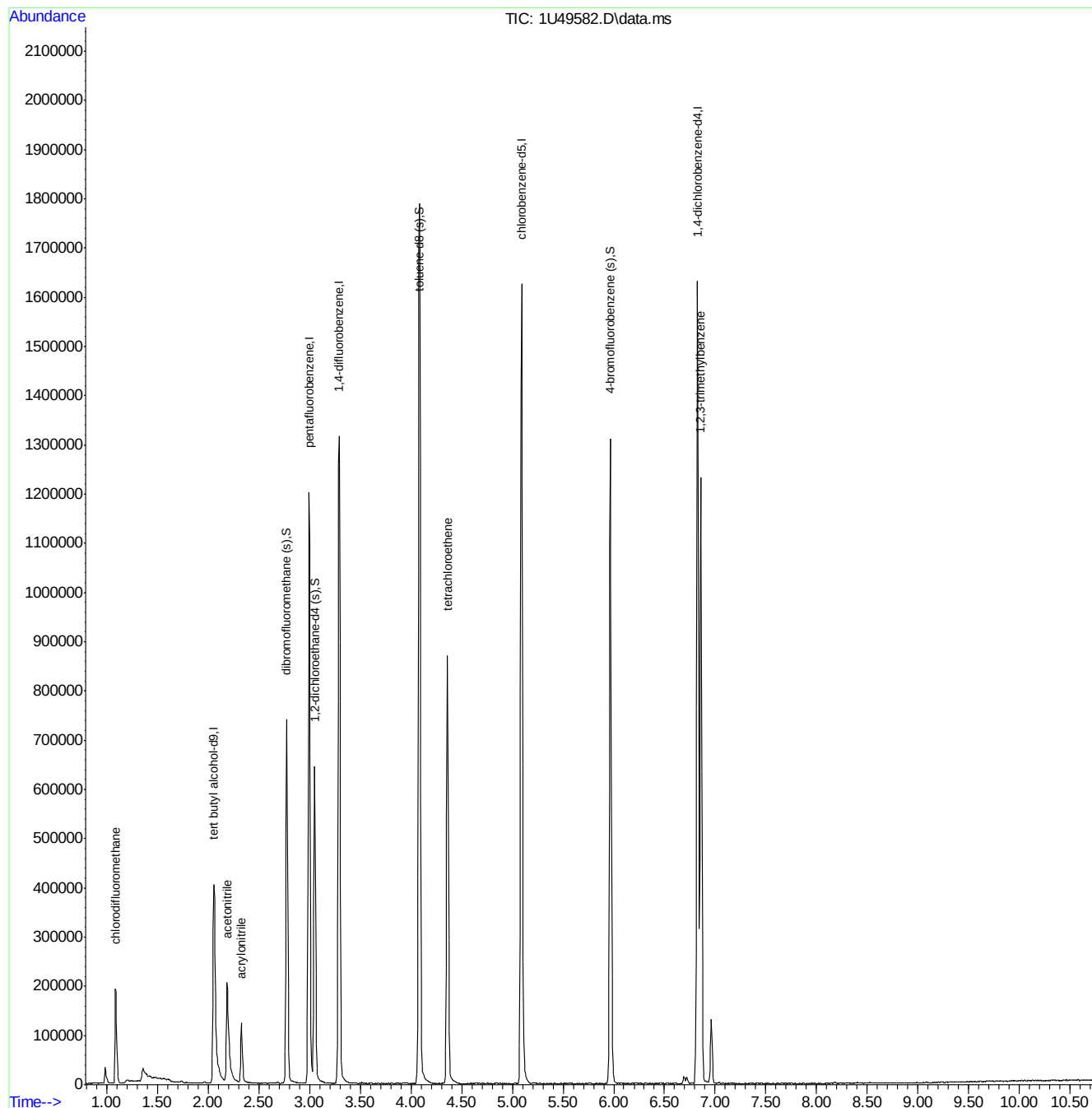
7



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VU2015\  
Data File : 1U49582.D  
Acq On : 28 Oct 2022 11:59 pm  
Operator : edwardd  
Sample : icv2015-50  
Misc : MS63374,V1U2015,5,,,,1  
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Nov 01 14:49:40 2022  
Quant Method : C:\MSDCHEM\1\METHODS\M1U2015.M  
Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um  
QLast Update : Mon Oct 31 14:52:57 2022  
Response via : Initial Calibration





## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\Angieg\November 2022\nov. 3, 2022\v1u2018\  
 Data File : 1u49688.d  
 Acq On : 1 Nov 2022 9:11 pm  
 Operator : edwardd  
 Sample : cc2015-50 Inst : GCMS-U  
 Misc : MS63577,V1U2018,5,,,1  
 ALS Vial : 51 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1U2015.M  
 Quant Results File: M1U2015.RES  
 Quant Time: Nov 02 23:22:25 2022  
 Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um  
 QLast Update : Wed Nov 02 11:15:22 2022  
 Response via : Initial Calibration

| Compound                      | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|---------|--------|----------|
| Internal Standards            |                |      |            |         |        |          |
| 1) tert butyl alcohol-d9      | 2.055          | 65   | 298505     | 500.00  | ug/L   | 0.00     |
| 5) pentafluorobenzene         | 2.994          | 168  | 449399     | 50.00   | ug/L   | 0.00     |
| 50) 1,4-difluorobenzene       | 3.293          | 114  | 590446     | 50.00   | ug/L   | 0.00     |
| 72) chlorobenzene-d5          | 5.091          | 117  | 570644     | 50.00   | ug/L   | 0.00     |
| 95) 1,4-dichlorobenzene-d4    | 6.827          | 152  | 271831     | 50.00   | ug/L   | 0.00     |
| System Monitoring Compounds   |                |      |            |         |        |          |
| 42) dibromofluoromethane (s)  | 2.774          | 113  | 196833     | 45.14   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 127 |      | Recovery = | 90.28%  |        |          |
| 51) 1,2-dichloroethane-d4 (s) | 3.052          | 65   | 245592     | 52.68   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 130 |      | Recovery = | 105.36% |        |          |
| 73) toluene-d8 (s)            | 4.085          | 98   | 690616     | 47.99   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 80 - 120 |      | Recovery = | 95.98%  |        |          |
| 96) 4-bromofluorobenzene (s)  | 5.967          | 95   | 246091     | 48.39   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 79 - 127 |      | Recovery = | 96.78%  |        |          |
| Target Compounds              |                |      |            |         |        |          |
|                               |                |      |            |         |        | Qvalue   |
| 2) ethanol                    | 1.657          | 45   | 119166     | 5146.10 | ug/L   | 95       |
| 3) tertiary butyl alcohol     | 2.092          | 59   | 96902      | 239.97  | ug/L   | 99       |
| 4) 1,4-dioxane                | 3.707          | 88   | 42491      | 1390.14 | ug/L   | 90       |
| 6) chlorodifluoromethane      | 1.086          | 51   | 115382     | 50.33   | ug/L   | 96       |
| 7) dichlorodifluoromethane    | 1.065          | 85   | 131206     | 37.92   | ug/L   | 96       |
| 8) chloromethane              | 1.164          | 50   | 101461     | 42.88   | ug/L   | 98       |
| 9) vinyl chloride             | 1.201          | 62   | 149494     | 47.57   | ug/L   | 99       |
| 10) 1,3-butadiene             | 1.211          | 39   | 128340     | 63.26   | ug/L   | 97       |
| 11) bromomethane              | 1.353          | 96   | 164222     | 54.86   | ug/L # | 97       |
| 12) chloroethane              | 1.411          | 64   | 144177     | 59.87   | ug/L   | 98       |
| 13) trichlorofluoromethane    | 1.479          | 101  | 446017     | 55.23   | ug/L   | 98       |
| 14) ethyl ether               | 1.605          | 74   | 93313      | 53.79   | ug/L   | 97       |
| 15) acrolein                  | 1.851          | 56   | 24314      | 49.85   | ug/L   | 97       |
| 16) freon 113                 | 1.715          | 151  | 137366     | 51.07   | ug/L   | 92       |
| 17) 1,1-dichloroethene        | 1.704          | 61   | 205261     | 52.56   | ug/L   | 94       |
| 18) acetone                   | 1.972          | 58   | 49315      | 152.08  | ug/L # | 83       |
| 19) acetonitrile              | 2.187          | 41   | 134018     | 516.61  | ug/L   | 98       |
| 20) iodomethane               | 1.783          | 142  | 102792     | 46.40   | ug/L   | 99       |
| 21) carbon disulfide          | 1.736          | 76   | 360243     | 50.18   | ug/L   | 97       |
| 22) methylene chloride        | 1.961          | 84   | 105207     | 46.44   | ug/L   | 93       |
| 23) methyl acetate            | 2.024          | 74   | 24565      | 48.19   | ug/L   | 88       |
| 24) methyl tert butyl ether   | 2.071          | 73   | 331799     | 48.35   | ug/L   | 98       |
| 25) trans-1,2-dichloroethene  | 2.035          | 61   | 163274     | 53.85   | ug/L   | 98       |
| 26) hexane                    | 2.066          | 57   | 243799     | 49.89   | ug/L   | 98       |
| 27) di-isopropyl ether        | 2.234          | 45   | 313186     | 50.14   | ug/L   | 97       |
| 28) ethyl tert-butyl ether    | 2.402          | 59   | 329639     | 49.74   | ug/L   | 98       |
| 29) 2-butanone                | 2.826          | 72   | 76878      | 179.34  | ug/L   | 91       |
| 30) 1,1-dichloroethane        | 2.312          | 63   | 219037     | 50.32   | ug/L   | 100      |
| 31) chloroprene               | 2.302          | 53   | 172799     | 50.57   | ug/L   | 93       |
| 32) acrylonitrile             | 2.328          | 52   | 35881      | 51.96   | ug/L   | 96       |
| 33) vinyl acetate             | 2.407          | 86   | 26447      | 49.63   | ug/L # | 76       |
| 34) ethyl acetate             | 2.721          | 70   | 14030      | 45.66   | ug/L   | 81       |
| 35) 2,2-dichloropropane       | 2.617          | 77   | 188564     | 47.55   | ug/L   | 98       |
| 36) cis-1,2-dichloroethene    | 2.564          | 96   | 128104     | 46.49   | ug/L   | 95       |
| 37) propionitrile             | 2.984          | 54   | 204622     | 510.73  | ug/L   | 98       |
| 38) methyl acrylate           | 2.737          | 85   | 27332      | 49.45   | ug/L   | 98       |
| 39) bromochloromethane        | 2.658          | 128  | 62949      | 47.78   | ug/L   | 82       |
| 40) tetrahydrofuran           | 2.769          | 71   | 18048      | 46.35   | ug/L # | 72       |
| 41) chloroform                | 2.685          | 47   | 64319      | 61.44   | ug/L   | 95       |

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\Angieg\November 2022\nov. 3, 2022\v1u2018\  
 Data File : 1u49688.d  
 Acq On : 1 Nov 2022 9:11 pm  
 Operator : edwardd  
 Sample : cc2015-50 Inst : GCMS-U  
 Misc : MS63577,V1U2018,5,,,,,1  
 ALS Vial : 51 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1U2015.M  
 Quant Results File: M1U2015.RES  
 Quant Time: Nov 02 23:22:25 2022  
 Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um  
 QLast Update : Wed Nov 02 11:15:22 2022  
 Response via : Initial Calibration

| Compound                      | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|---------|--------|----------|
| 43) methacrylonitrile         | 2.994 | 67   | 60344    | 46.48   | ug/L   | 76       |
| 44) 1,1,1-trichloroethane     | 2.800 | 97   | 220805   | 48.77   | ug/L   | 95       |
| 45) cyclohexane               | 2.674 | 84   | 193200   | 52.05   | ug/L   | 93       |
| 46) 1,1-dichloropropene       | 2.858 | 75   | 174301   | 49.07   | ug/L   | 96       |
| 47) carbon tetrachloride      | 2.774 | 117  | 217850   | 47.90   | ug/L   | 96       |
| 48) isobutyl alcohol          | 3.025 | 43   | 148778   | 527.70  | ug/L   | 98       |
| 49) tert-amyl alcohol         | 3.104 | 55   | 35075    | 221.95  | ug/L   | 97       |
| 52) iso-octane                | 2.910 | 57   | 414183   | 49.26   | ug/L   | 99       |
| 53) benzene                   | 2.989 | 78   | 487355   | 51.64   | ug/L   | 99       |
| 54) tert-amyl methyl ether    | 3.025 | 73   | 343745   | 53.48   | ug/L   | 98       |
| 55) heptane                   | 2.947 | 57   | 74641    | 49.62   | ug/L   | 95       |
| 56) isopropyl acetate         | 3.183 | 87   | 32074    | 50.07   | ug/L # | 80       |
| 57) 1,2-dichloroethane        | 3.083 | 62   | 168013   | 50.99   | ug/L   | 98       |
| 58) n-butyl alcohol           | 3.419 | 56   | 208553   | 2418.36 | ug/L   | 99       |
| 59) ethyl acrylate            | 3.550 | 55   | 166552   | 50.49   | ug/L   | 99       |
| 60) trichloroethene           | 3.288 | 130  | 150734   | 50.69   | ug/L   | 96       |
| 61) 2-nitropropane            | 4.247 | 41   | 42424    | 49.93   | ug/L   | 97       |
| 62) 2-chloroethyl vinyl ether | 3.917 | 63   | 277528   | 225.54  | ug/L   | 98       |
| 63) methyl methacrylate       | 3.670 | 100  | 37486    | 50.58   | ug/L   | 94       |
| 64) 1,2-dichloropropane       | 3.571 | 63   | 111734   | 52.28   | ug/L   | 99       |
| 65) methylcyclohexane         | 3.293 | 55   | 147822   | 49.21   | ug/L   | 98       |
| 66) dibromomethane            | 3.518 | 93   | 88639    | 51.00   | ug/L   | 99       |
| 67) bromodichloromethane      | 3.597 | 83   | 184609   | 51.25   | ug/L   | 98       |
| 68) epichlorohydrin           | 4.111 | 57   | 74645    | 246.08  | ug/L   | 97       |
| 69) cis-1,3-dichloropropene   | 3.964 | 75   | 183096   | 49.13   | ug/L   | 96       |
| 70) 4-methyl-2-pentanone      | 4.336 | 58   | 224363   | 203.96  | ug/L   | 98       |
| 71) 3-methyl-1-butanol        | 4.189 | 70   | 88608    | 1042.85 | ug/L   | 98       |
| 74) toluene                   | 4.116 | 92   | 319607   | 50.76   | ug/L   | 99       |
| 75) ethyl methacrylate        | 4.452 | 69   | 159183   | 49.89   | ug/L   | 99       |
| 76) trans-1,3-dichloropropene | 4.362 | 75   | 186605   | 52.11   | ug/L   | 99       |
| 77) 1,1,2-trichloroethane     | 4.467 | 83   | 97445    | 52.04   | ug/L   | 96       |
| 78) tetrachloroethene         | 4.362 | 166  | 167482   | 52.20   | ug/L   | 100      |
| 79) 2-hexanone                | 4.882 | 58   | 226404   | 191.00  | ug/L   | 98       |
| 80) 1,3-dichloropropane       | 4.646 | 76   | 178140   | 49.65   | ug/L   | 100      |
| 81) butyl acetate             | 4.813 | 56   | 75788    | 49.39   | ug/L   | 96       |
| 82) dibromochloromethane      | 4.588 | 129  | 148380   | 49.07   | ug/L   | 99       |
| 83) 1,2-dibromoethane         | 4.750 | 107  | 130305   | 48.41   | ug/L   | 99       |
| 84) n-butyl ether             | 5.028 | 57   | 432317   | 49.87   | ug/L   | 99       |
| 85) chlorobenzene             | 5.102 | 112  | 373061   | 50.79   | ug/L   | 98       |
| 86) 1,1,1,2-tetrachloroethane | 5.144 | 131  | 137028   | 51.73   | ug/L   | 98       |
| 87) ethylbenzene              | 5.117 | 91   | 631443   | 51.28   | ug/L   | 100      |
| 88) m,p-xylene                | 5.222 | 106  | 482263   | 108.01  | ug/L   | 94       |
| 89) o-xylene                  | 5.526 | 106  | 216474   | 50.99   | ug/L   | 98       |
| 90) styrene                   | 5.563 | 104  | 368353   | 52.96   | ug/L   | 98       |
| 91) bromoform                 | 5.584 | 173  | 117657   | 49.48   | ug/L   | 99       |
| 92) butyl acrylate            | 5.652 | 55   | 215052   | 52.04   | ug/L   | 98       |
| 93) isopropylbenzene          | 5.757 | 105  | 601839   | 51.81   | ug/L   | 99       |
| 94) cis-1,4-dichloro-2-butene | 6.014 | 88   | 45876    | 36.25   | ug/L # | 88       |
| 97) bromobenzene              | 6.045 | 156  | 155122   | 49.90   | ug/L   | 96       |
| 98) 1,1,2,2-tetrachloroethane | 6.114 | 83   | 163993   | 47.50   | ug/L   | 97       |
| 99) trans-1,4-dichloro-2-b... | 6.250 | 53   | 31195    | 39.12   | ug/L   | 98       |
| 100) 1,2,3-trichloropropane   | 6.218 | 110  | 55802    | 52.25   | ug/L   | 96       |
| 101) n-propylbenzene          | 6.072 | 91   | 690542   | 51.52   | ug/L   | 98       |
| 102) 2-chlorotoluene          | 6.187 | 126  | 142422   | 49.40   | ug/L   | 97       |
| 103) 4-chlorotoluene          | 6.313 | 91   | 395040   | 50.56   | ug/L   | 97       |
| 104) 1,3,5-trimethylbenzene   | 6.218 | 105  | 462675   | 51.61   | ug/L   | 97       |
| 105) tert-butylbenzene        | 6.465 | 119  | 401891   | 49.81   | ug/L   | 98       |

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\Angieg\November 2022\nov. 3, 2022\v1u2018\  
 Data File : 1u49688.d  
 Acq On : 1 Nov 2022 9:11 pm  
 Operator : edwardd  
 Sample : cc2015-50 Inst : GCMS-U  
 Misc : MS63577,V1U2018,5,,,,,1  
 ALS Vial : 51 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M1U2015.M  
 Quant Results File: M1U2015.RES  
 Quant Time: Nov 02 23:22:25 2022  
 Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um  
 QLast Update : Wed Nov 02 11:15:22 2022  
 Response via : Initial Calibration

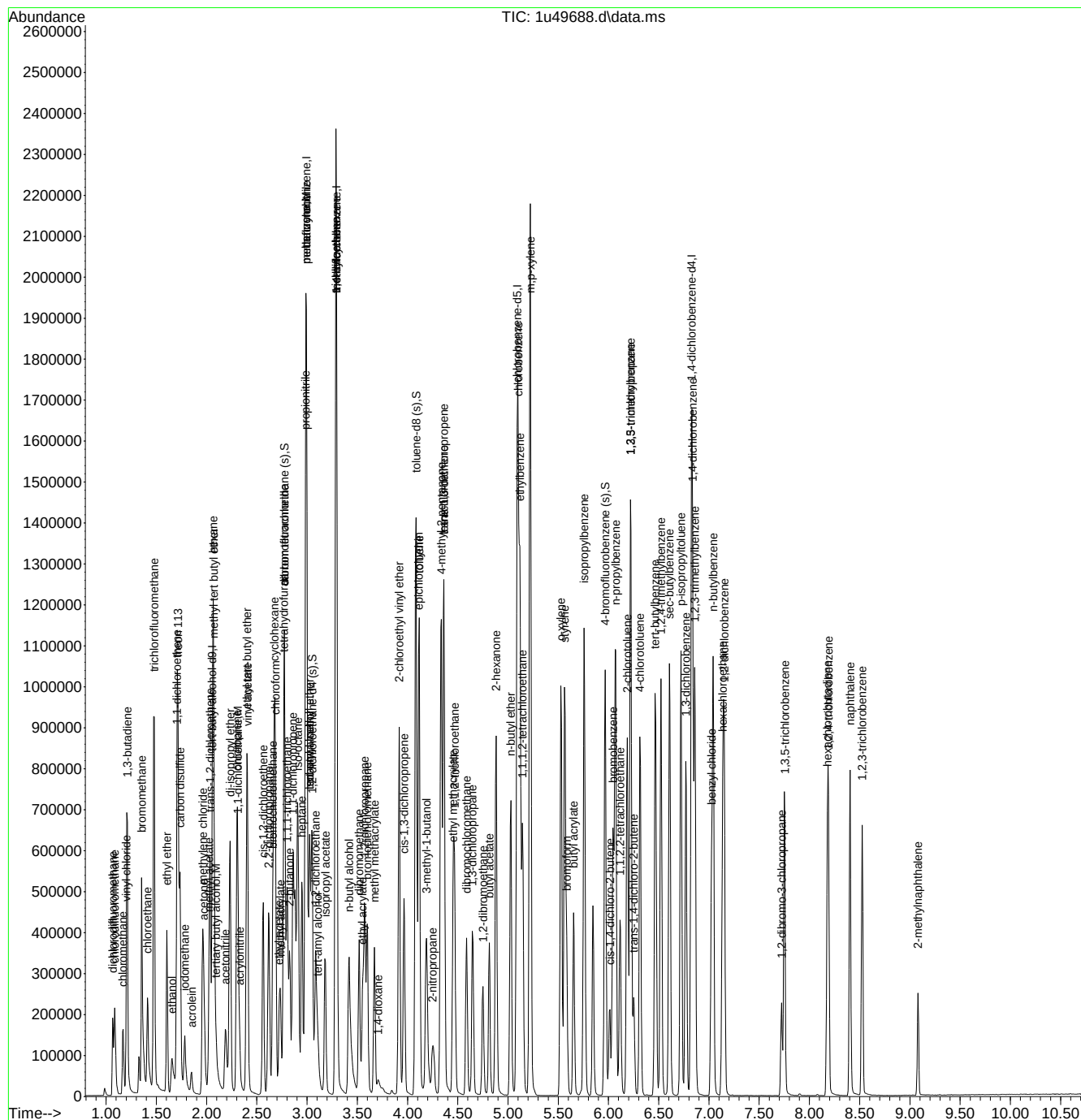
|      | Compound                  | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|------|---------------------------|-------|------|----------|-------|-------|----------|
| 106) | 1,2,4-trimethylbenzene    | 6.523 | 105  | 450404   | 51.75 | ug/L  | 98       |
| 107) | sec-butylbenzene          | 6.606 | 105  | 598577   | 51.11 | ug/L  | 99       |
| 108) | 1,3-dichlorobenzene       | 6.769 | 146  | 273266   | 49.36 | ug/L  | 99       |
| 109) | p-isopropyltoluene        | 6.722 | 119  | 490369   | 51.59 | ug/L  | 98       |
| 110) | 1,4-dichlorobenzene       | 6.837 | 146  | 275642   | 49.67 | ug/L  | 99       |
| 111) | 1,2-dichlorobenzene       | 7.152 | 146  | 246033   | 48.56 | ug/L  | 98       |
| 112) | 1,2,3-trimethylbenzene    | 6.858 | 105  | 451440   | 52.61 | ug/L  | 99       |
| 113) | n-butylbenzene            | 7.042 | 92   | 251559   | 53.43 | ug/L  | 99       |
| 114) | 1,2-dibromo-3-chloropr... | 7.723 | 157  | 43573    | 44.61 | ug/L  | 96       |
| 115) | 1,3,5-trichlorobenzene    | 7.755 | 180  | 166643   | 47.31 | ug/L  | 98       |
| 116) | 1,2,4-trichlorobenzene    | 8.190 | 180  | 133789   | 46.19 | ug/L  | 99       |
| 117) | hexachlorobutadiene       | 8.179 | 225  | 62546    | 44.25 | ug/L  | 98       |
| 118) | naphthalene               | 8.405 | 128  | 404310   | 46.50 | ug/L  | 99       |
| 119) | 1,2,3-trichlorobenzene    | 8.525 | 180  | 133493   | 46.41 | ug/L  | 99       |
| 120) | hexachloroethane          | 7.136 | 119  | 92192    | 53.85 | ug/L  | 98       |
| 121) | benzyl chloride           | 7.026 | 126  | 58847    | 49.87 | ug/L  | 96       |
| 122) | 2-methylnaphthalene       | 9.081 | 142  | 72766    | 23.72 | ug/L  | 97       |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

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Data Path : C:\msdchem\1\data\Angieg\November 2022\nov. 3, 2022\v1u2018\  
Data File : 1u49688.d  
Acq On : 1 Nov 2022 9:11 pm  
Operator : edwardd  
Sample : cc2015-50 Inst : GCMS-U  
Misc : MS63577,V1U2018,5,,,,,1  
ALS Vial : 51 Sample Multiplier: 1
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Quant Method : C:\MSDCHEM\1\METHODS\M1U2015.M  
Quant Results File: M1U2015.RES  
Quant Time: Nov 02 23:22:25 2022  
Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um  
QLast Update : Wed Nov 02 11:15:22 2022  
Response via : Initial Calibration



## 7.6.26



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VU2015\  
 Data File : 2U49557.D  
 Acq On : 28 Oct 2022 5:55 pm  
 Operator : edwardd  
 Sample : ic2015-0.2  
 Misc : MS63374,V2U2015,5,,,1  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 01 17:20:03 2022

Quant Method : C:\MSDCHEM\1\METHODS\M2U2015.M

Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um

QLast Update : Mon Oct 31 14:55:54 2022

Response via : Initial Calibration

| Compound                      | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|---------|--------|----------|
| Internal Standards            |                |      |            |         |        |          |
| 1) tert butyl alcohol-d9      | 2.056          | 65   | 395181     | 500.00  | ug/L   | 0.00     |
| 5) pentafluorobenzene         | 2.999          | 168  | 425385     | 50.00   | ug/L   | 0.00     |
| 50) 1,4-difluorobenzene       | 3.293          | 114  | 592662     | 50.00   | ug/L   | 0.00     |
| 72) chlorobenzene-d5          | 5.091          | 117  | 571394     | 50.00   | ug/L   | 0.00     |
| 95) 1,4-dichlorobenzene-d4    | 6.827          | 152  | 279011     | 50.00   | ug/L   | 0.00     |
| System Monitoring Compounds   |                |      |            |         |        |          |
| 42) dibromofluoromethane (s)  | 2.774          | 113  | 216927     | 55.49   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 127 |      | Recovery = | 110.98% |        |          |
| 51) 1,2-dichloroethane-d4 (s) | 3.052          | 65   | 242128     | 53.09   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 130 |      | Recovery = | 106.18% |        |          |
| 73) toluene-d8 (s)            | 4.085          | 98   | 714918     | 52.95   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 80 - 120 |      | Recovery = | 105.90% |        |          |
| 96) 4-bromofluorobenzene (s)  | 5.967          | 95   | 257075     | 55.80   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 79 - 127 |      | Recovery = | 111.60% |        |          |
| Target Compounds              |                |      |            |         |        |          |
|                               |                |      |            |         | Qvalue |          |
| 6) chlorodifluoromethane      | 1.086          | 51   | 551        | 0.23    | ug/L   | 60       |
| 8) chloromethane              | 1.164          | 50   | 605        | 0.26    | ug/L # | 46       |
| 9) vinyl chloride             | 1.206          | 62   | 661        | 0.23    | ug/L   | 79       |
| 13) trichlorofluoromethane    | 1.479          | 101  | 1561       | 0.22    | ug/L   | 93       |
| 17) 1,1-dichloroethene        | 1.710          | 61   | 676        | 0.20    | ug/L   | 84       |
| 24) methyl tert butyl ether   | 2.071          | 73   | 1472       | 0.23    | ug/L # | 8        |
| 28) ethyl tert-butyl ether    | 2.407          | 59   | 1329       | 0.22    | ug/L   | 83       |
| 36) cis-1,2-dichloroethene    | 2.564          | 96   | 563        | 0.22    | ug/L   | 79       |
| 44) 1,1,1-trichloroethane     | 2.800          | 97   | 819        | 0.20    | ug/L   | 88       |
| 45) cyclohexane               | 2.674          | 84   | 734        | 0.22    | ug/L   | 89       |
| 53) benzene                   | 2.989          | 78   | 2207       | 0.24    | ug/L   | 87       |
| 54) tert-amyl methyl ether    | 3.026          | 73   | 1466       | 0.22    | ug/L   | 84       |
| 59) ethyl acrylate            | 3.555          | 55   | 848        | 0.25    | ug/L   | 75       |
| 60) trichloroethene           | 3.283          | 130  | 576        | 0.19    | ug/L   | 87       |
| 64) 1,2-dichloropropane       | 3.581          | 63   | 321        | 0.15    | ug/L # | 32       |
| 67) bromodichloromethane      | 3.597          | 83   | 778        | 0.22    | ug/L   | 93       |
| 69) cis-1,3-dichloropropene   | 3.969          | 75   | 797        | 0.21    | ug/L # | 54       |
| 70) 4-methyl-2-pentanone      | 4.331          | 58   | 882        | 0.75    | ug/L   | 88       |
| 74) toluene                   | 4.116          | 92   | 1353       | 0.23    | ug/L # | 77       |
| 75) ethyl methacrylate        | 4.452          | 69   | 605        | 0.19    | ug/L # | 69       |
| 76) trans-1,3-dichloropropene | 4.363          | 75   | 720        | 0.21    | ug/L   | 84       |
| 79) 2-hexanone                | 4.882          | 58   | 1100       | 0.87    | ug/L # | 83       |
| 80) 1,3-dichloropropane       | 4.646          | 76   | 721        | 0.21    | ug/L   | 87       |
| 82) dibromochloromethane      | 4.593          | 129  | 730        | 0.24    | ug/L   | 68       |
| 83) 1,2-dibromoethane         | 4.751          | 107  | 590        | 0.22    | ug/L   | 94       |
| 84) n-butyl ether             | 5.023          | 57   | 1831       | 0.21    | ug/L   | 87       |
| 85) chlorobenzene             | 5.102          | 112  | 1487       | 0.20    | ug/L # | 1        |
| 88) m,p-xylene                | 5.217          | 106  | 1592       | 0.34    | ug/L   | 93       |
| 89) o-xylene                  | 5.527          | 106  | 864        | 0.19    | ug/L   | 96       |
| 90) styrene                   | 5.563          | 104  | 1285       | 0.17    | ug/L   | 88       |
| 91) bromoform                 | 5.590          | 173  | 419        | 0.16    | ug/L   | 87       |
| 92) butyl acrylate            | 5.652          | 55   | 812        | 0.18    | ug/L   | 75       |

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VU2015\  
Data File : 2U49557.D  
Acq On : 28 Oct 2022 5:55 pm  
Operator : edwardd  
Sample : ic2015-0.2  
Misc : MS63374,V2U2015,5,,,1  
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 01 17:20:03 2022  
Quant Method : C:\MSDCHEM\1\METHODS\M2U2015.M  
Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um  
QLast Update : Mon Oct 31 14:55:54 2022  
Response via : Initial Calibration

| Compound                    | R.T.  | QIon | Response | Conc | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|------|--------|----------|
| 93) isopropylbenzene        | 5.757 | 105  | 2128     | 0.17 | ug/L   | 84       |
| 97) bromobenzene            | 6.046 | 156  | 670      | 0.23 | ug/L # | 54       |
| 101) n-propylbenzene        | 6.067 | 91   | 2486     | 0.20 | ug/L   | 96       |
| 102) 2-chlorotoluene        | 6.182 | 126  | 532      | 0.19 | ug/L # | 73       |
| 103) 4-chlorotoluene        | 6.308 | 91   | 1588     | 0.22 | ug/L   | 74       |
| 104) 1,3,5-trimethylbenzene | 6.224 | 105  | 1785     | 0.20 | ug/L   | 94       |
| 105) tert-butylbenzene      | 6.465 | 119  | 1466     | 0.18 | ug/L   | 91       |
| 106) 1,2,4-trimethylbenzene | 6.523 | 105  | 1705     | 0.19 | ug/L   | 91       |
| 107) sec-butylbenzene       | 6.607 | 105  | 2312     | 0.20 | ug/L   | 86       |
| 108) 1,3-dichlorobenzene    | 6.769 | 146  | 1197     | 0.21 | ug/L   | 88       |
| 109) p-isopropyltoluene     | 6.722 | 119  | 1894     | 0.19 | ug/L   | 86       |
| 111) 1,2-dichlorobenzene    | 7.152 | 146  | 967      | 0.19 | ug/L   | 92       |
| 112) 1,2,3-trimethylbenzene | 6.858 | 105  | 1785     | 0.21 | ug/L   | 82       |
| 113) n-butylbenzene         | 7.047 | 92   | 819      | 0.17 | ug/L # | 72       |
| 115) 1,3,5-trichlorobenzene | 7.750 | 180  | 735      | 0.20 | ug/L   | 91       |
| 116) 1,2,4-trichlorobenzene | 8.190 | 180  | 591      | 0.20 | ug/L   | 93       |

(#) = qualifier out of range (m) = manual integration (+) = signals summed





## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VU2015\  
 Data File : 2U49559.D  
 Acq On : 28 Oct 2022 6:25 pm  
 Operator : edwardd  
 Sample : ic2015-0.5  
 Misc : MS63374,V2U2015,5,,,1  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 01 17:21:00 2022

Quant Method : C:\MSDCHEM\1\METHODS\M2U2015.M

Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um

QLast Update : Mon Oct 31 14:55:54 2022

Response via : Initial Calibration

| Compound                      | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|---------|--------|----------|
| Internal Standards            |                |      |            |         |        |          |
| 1) tert butyl alcohol-d9      | 2.056          | 65   | 394019     | 500.00  | ug/L   | 0.00     |
| 5) pentafluorobenzene         | 2.999          | 168  | 424396     | 50.00   | ug/L   | 0.00     |
| 50) 1,4-difluorobenzene       | 3.293          | 114  | 588770     | 50.00   | ug/L   | 0.00     |
| 72) chlorobenzene-d5          | 5.091          | 117  | 564214     | 50.00   | ug/L   | 0.00     |
| 95) 1,4-dichlorobenzene-d4    | 6.827          | 152  | 275962     | 50.00   | ug/L   | 0.00     |
| System Monitoring Compounds   |                |      |            |         |        |          |
| 42) dibromofluoromethane (s)  | 2.774          | 113  | 217425     | 55.75   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 127 |      | Recovery = | 111.50% |        |          |
| 51) 1,2-dichloroethane-d4 (s) | 3.052          | 65   | 241314     | 53.26   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 130 |      | Recovery = | 106.52% |        |          |
| 73) toluene-d8 (s)            | 4.085          | 98   | 713218     | 53.50   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 80 - 120 |      | Recovery = | 107.00% |        |          |
| 96) 4-bromofluorobenzene (s)  | 5.967          | 95   | 253832     | 55.71   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 79 - 127 |      | Recovery = | 111.42% |        |          |
| Target Compounds              |                |      |            |         |        |          |
|                               |                |      |            |         | Qvalue |          |
| 4) 1,4-dioxane                | 3.702          | 88   | 424        | 8.62    | ug/L   | # 22     |
| 6) chlorodifluoromethane      | 1.086          | 51   | 1389       | 0.57    | ug/L   | 87       |
| 7) dichlorodifluoromethane    | 1.070          | 85   | 1715       | 0.49    | ug/L   | 83       |
| 8) chloromethane              | 1.164          | 50   | 1505       | 0.66    | ug/L   | 89       |
| 9) vinyl chloride             | 1.206          | 62   | 1653       | 0.58    | ug/L   | 96       |
| 13) trichlorofluoromethane    | 1.479          | 101  | 3880       | 0.55    | ug/L   | 89       |
| 16) freon 113                 | 1.715          | 151  | 1198       | 0.51    | ug/L   | 88       |
| 17) 1,1-dichloroethene        | 1.710          | 61   | 2034       | 0.60    | ug/L   | 92       |
| 18) acetone                   | 1.977          | 58   | 816        | 2.11    | ug/L   | 87       |
| 23) methyl acetate            | 2.024          | 74   | 246        | 0.47    | ug/L   | # 75     |
| 24) methyl tert butyl ether   | 2.071          | 73   | 3586       | 0.56    | ug/L   | 63       |
| 27) di-isopropyl ether        | 2.234          | 45   | 3334       | 0.59    | ug/L   | 74       |
| 28) ethyl tert-butyl ether    | 2.402          | 59   | 3403       | 0.56    | ug/L   | 92       |
| 29) 2-butanone                | 2.832          | 72   | 817        | 1.80    | ug/L   | # 86     |
| 30) 1,1-dichloroethane        | 2.318          | 63   | 2182       | 0.55    | ug/L   | 95       |
| 36) cis-1,2-dichloroethene    | 2.564          | 96   | 1489       | 0.59    | ug/L   | 97       |
| 39) bromochloromethane        | 2.664          | 128  | 644        | 0.53    | ug/L   | # 65     |
| 44) 1,1,1-trichloroethane     | 2.805          | 97   | 2358       | 0.56    | ug/L   | 91       |
| 45) cyclohexane               | 2.674          | 84   | 1777       | 0.54    | ug/L   | 96       |
| 46) 1,1-dichloropropene       | 2.858          | 75   | 1724       | 0.53    | ug/L   | 85       |
| 52) iso-octane                | 2.910          | 57   | 4271       | 0.53    | ug/L   | 73       |
| 53) benzene                   | 2.989          | 78   | 5274       | 0.58    | ug/L   | 93       |
| 54) tert-amyl methyl ether    | 3.026          | 73   | 3889       | 0.59    | ug/L   | 92       |
| 55) heptane                   | 2.952          | 57   | 798        | 0.56    | ug/L   | # 70     |
| 56) isopropyl acetate         | 3.178          | 87   | 314        | 0.48    | ug/L   | # 23     |
| 58) n-butyl alcohol           | 3.419          | 56   | 2668       | 25.17   | ug/L   | 99       |
| 59) ethyl acrylate            | 3.555          | 55   | 1828       | 0.54    | ug/L   | 89       |
| 60) trichloroethene           | 3.288          | 130  | 1593       | 0.54    | ug/L   | 89       |
| 63) methyl methacrylate       | 3.670          | 100  | 393        | 0.49    | ug/L   | # 48     |
| 64) 1,2-dichloropropane       | 3.571          | 63   | 1114       | 0.52    | ug/L   | 98       |
| 66) dibromomethane            | 3.518          | 93   | 1100       | 0.63    | ug/L   | # 82     |
| 67) bromodichloromethane      | 3.602          | 83   | 2001       | 0.57    | ug/L   | 95       |



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VU2015\  
 Data File : 2U49559.D  
 Acq On : 28 Oct 2022 6:25 pm  
 Operator : edwardd  
 Sample : ic2015-0.5  
 Misc : MS63374,V2U2015,5,,,1  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 01 17:21:00 2022

Quant Method : C:\MSDCHEM\1\METHODS\M2U2015.M

Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um

QLast Update : Mon Oct 31 14:55:54 2022

Response via : Initial Calibration

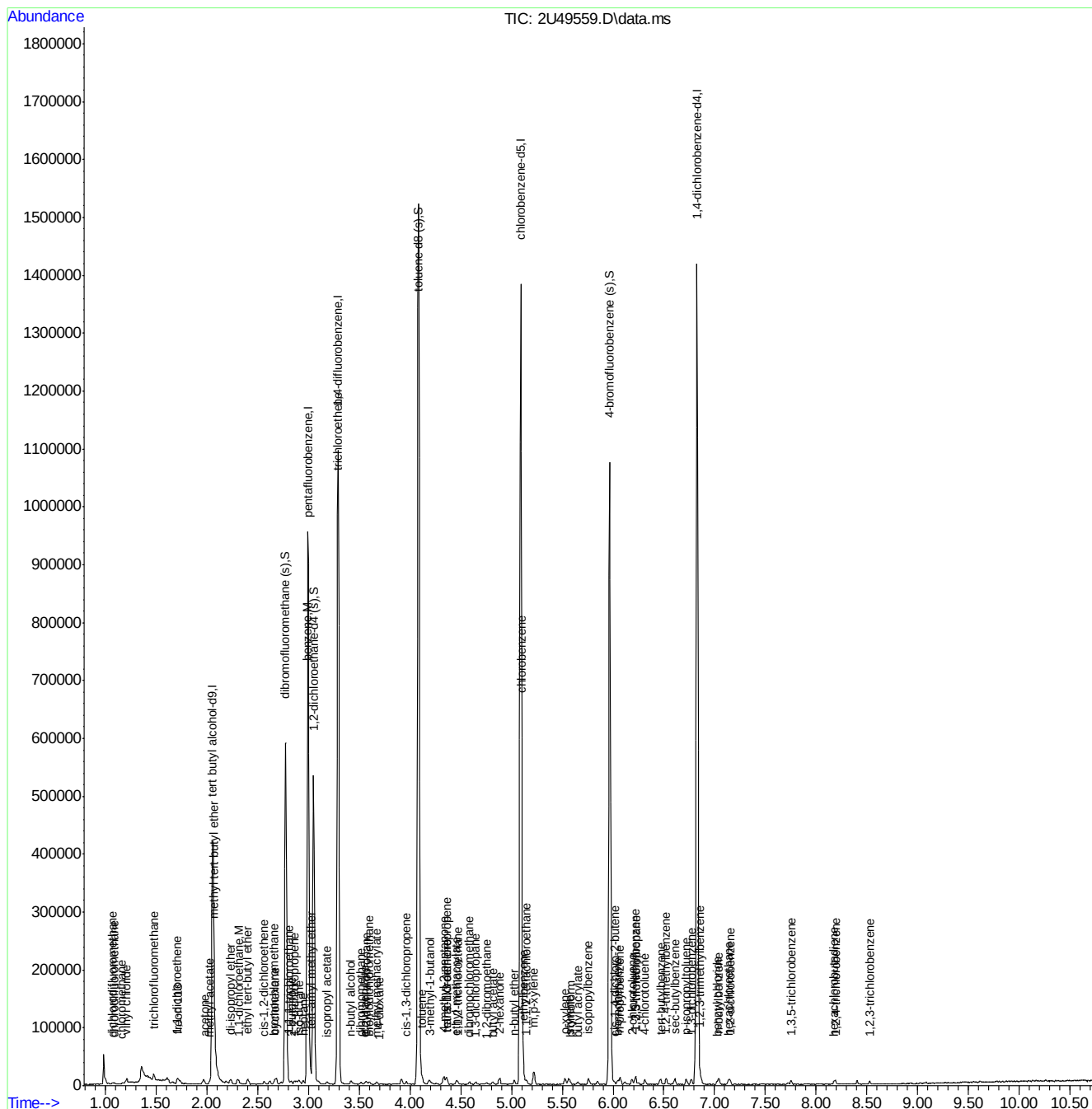
| Compound                      | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|-------|--------|----------|
| 69) cis-1,3-dichloropropene   | 3.964 | 75   | 1948     | 0.52  | ug/L   | 79       |
| 70) 4-methyl-2-pentanone      | 4.336 | 58   | 2500     | 2.14  | ug/L   | 86       |
| 71) 3-methyl-1-butanol        | 4.195 | 70   | 1210     | 10.83 | ug/L # | 55       |
| 74) toluene                   | 4.116 | 92   | 3213     | 0.55  | ug/L   | 89       |
| 75) ethyl methacrylate        | 4.457 | 69   | 1685     | 0.55  | ug/L   | 97       |
| 76) trans-1,3-dichloropropene | 4.362 | 75   | 1914     | 0.56  | ug/L   | 95       |
| 77) 1,1,2-trichloroethane     | 4.467 | 83   | 1078     | 0.58  | ug/L   | 90       |
| 78) tetrachloroethene         | 4.362 | 166  | 1658     | 0.51  | ug/L   | 87       |
| 79) 2-hexanone                | 4.882 | 58   | 2660     | 2.14  | ug/L # | 66       |
| 80) 1,3-dichloropropane       | 4.646 | 76   | 1856     | 0.54  | ug/L   | 92       |
| 81) butyl acetate             | 4.813 | 56   | 799      | 0.51  | ug/L # | 55       |
| 82) dibromochloromethane      | 4.583 | 129  | 1680     | 0.57  | ug/L   | 92       |
| 83) 1,2-dibromoethane         | 4.750 | 107  | 1322     | 0.50  | ug/L   | 87       |
| 84) n-butyl ether             | 5.028 | 57   | 4141     | 0.49  | ug/L   | 92       |
| 85) chlorobenzene             | 5.102 | 112  | 3913     | 0.55  | ug/L # | 36       |
| 86) 1,1,1,2-tetrachloroethane | 5.144 | 131  | 1262     | 0.46  | ug/L   | 90       |
| 87) ethylbenzene              | 5.117 | 91   | 7728     | 0.65  | ug/L   | 92       |
| 88) m,p-xylene                | 5.222 | 106  | 4906     | 1.05  | ug/L   | 93       |
| 89) o-xylene                  | 5.526 | 106  | 2481     | 0.56  | ug/L   | 89       |
| 90) styrene                   | 5.568 | 104  | 3495     | 0.47  | ug/L   | 95       |
| 91) bromoform                 | 5.584 | 173  | 1192     | 0.46  | ug/L   | 68       |
| 92) butyl acrylate            | 5.657 | 55   | 2353     | 0.54  | ug/L   | 95       |
| 93) isopropylbenzene          | 5.757 | 105  | 5913     | 0.48  | ug/L   | 97       |
| 94) cis-1,4-dichloro-2-butene | 6.014 | 88   | 724      | 0.50  | ug/L   | 89       |
| 97) bromobenzene              | 6.045 | 156  | 1742     | 0.59  | ug/L   | 90       |
| 100) 1,2,3-trichloropropane   | 6.224 | 110  | 603      | 0.58  | ug/L   | 85       |
| 101) n-propylbenzene          | 6.066 | 91   | 7044     | 0.56  | ug/L   | 95       |
| 102) 2-chlorotoluene          | 6.187 | 126  | 1505     | 0.55  | ug/L   | 97       |
| 103) 4-chlorotoluene          | 6.313 | 91   | 3970     | 0.55  | ug/L   | 89       |
| 104) 1,3,5-trimethylbenzene   | 6.218 | 105  | 4523     | 0.52  | ug/L   | 87       |
| 105) tert-butylbenzene        | 6.470 | 119  | 4213     | 0.53  | ug/L   | 89       |
| 106) 1,2,4-trimethylbenzene   | 6.523 | 105  | 4505     | 0.52  | ug/L   | 97       |
| 107) sec-butylbenzene         | 6.612 | 105  | 5998     | 0.53  | ug/L   | 96       |
| 108) 1,3-dichlorobenzene      | 6.769 | 146  | 3061     | 0.55  | ug/L   | 95       |
| 109) p-isopropyltoluene       | 6.722 | 119  | 4246     | 0.44  | ug/L   | 90       |
| 111) 1,2-dichlorobenzene      | 7.152 | 146  | 2434     | 0.47  | ug/L   | 83       |
| 112) 1,2,3-trimethylbenzene   | 6.858 | 105  | 4833     | 0.56  | ug/L   | 90       |
| 113) n-butylbenzene           | 7.042 | 92   | 2426     | 0.51  | ug/L   | 92       |
| 115) 1,3,5-trichlorobenzene   | 7.755 | 180  | 1810     | 0.51  | ug/L   | 95       |
| 116) 1,2,4-trichlorobenzene   | 8.190 | 180  | 1634     | 0.57  | ug/L   | 74       |
| 117) hexachlorobutadiene      | 8.174 | 225  | 792      | 0.57  | ug/L   | 78       |
| 119) 1,2,3-trichlorobenzene   | 8.525 | 180  | 1374     | 0.49  | ug/L   | 92       |
| 120) hexachloroethane         | 7.136 | 119  | 759      | 0.42  | ug/L   | 91       |
| 121) benzyl chloride          | 7.026 | 126  | 515      | 0.40  | ug/L   | 99       |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

```
Data Path   : C:\msdchem\1\DATA\VU2015\
Data File   : 2U49559.D
Acq On      : 28 Oct 2022    6:25 pm
Operator    : edwarddd
Sample      : ic2015-0.5
Misc        : MS63374,V2U2015,5,,,,,1
ALS Vial    : 5      Sample Multiplier: 1
```

Quant Time: Nov 01 17:21:00 2022  
Quant Method : C:\MSDCHEM\1\METHODS\M2U2015.M  
Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um  
QLast Update : Mon Oct 31 14:55:54 2022  
Response via : Initial Calibration



M2U2015.M Wed Nov 02 17:15:34 2022

Page: 3

7.6.28

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VU2015\  
 Data File : 2U49561.D  
 Acq On : 28 Oct 2022 6:54 pm  
 Operator : edwardd  
 Sample : ic2015-1  
 Misc : MS63374,V2U2015,5,,,1  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 02 12:34:06 2022

Quant Method : C:\MSDCHEM\1\METHODS\M2U2015.M

Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um

QLast Update : Mon Oct 31 15:40:47 2022

Response via : Initial Calibration

| Compound                      | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|---------|--------|----------|
| Internal Standards            |                |      |            |         |        |          |
| 1) tert butyl alcohol-d9      | 2.056          | 65   | 395076     | 500.00  | ug/L   | 0.00     |
| 5) pentafluorobenzene         | 2.999          | 168  | 419315     | 50.00   | ug/L   | 0.00     |
| 50) 1,4-difluorobenzene       | 3.293          | 114  | 588408     | 50.00   | ug/L   | 0.00     |
| 72) chlorobenzene-d5          | 5.091          | 117  | 567153     | 50.00   | ug/L   | 0.00     |
| 95) 1,4-dichlorobenzene-d4    | 6.827          | 152  | 276638     | 50.00   | ug/L   | 0.00     |
| System Monitoring Compounds   |                |      |            |         |        |          |
| 42) dibromofluoromethane (s)  | 2.774          | 113  | 214979     | 52.64   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 127 |      | Recovery = | 105.28% |        |          |
| 51) 1,2-dichloroethane-d4 (s) | 3.052          | 65   | 243946     | 52.36   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 130 |      | Recovery = | 104.72% |        |          |
| 73) toluene-d8 (s)            | 4.085          | 98   | 711038     | 50.84   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 80 - 120 |      | Recovery = | 101.68% |        |          |
| 96) 4-bromofluorobenzene (s)  | 5.967          | 95   | 253860     | 51.43   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 79 - 127 |      | Recovery = | 102.86% |        |          |
| Target Compounds              |                |      |            |         |        |          |
| 2) ethanol                    | 1.657          | 45   | 4305       | 124.06  | ug/L   | 95       |
| 3) tertiary butyl alcohol     | 2.092          | 59   | 3316       | 6.21    | ug/L   | 84       |
| 4) 1,4-dioxane                | 3.707          | 88   | 1061       | 23.68   | ug/L   | 97       |
| 6) chlorodifluoromethane      | 1.086          | 51   | 2676       | 1.05    | ug/L   | 90       |
| 7) dichlorodifluoromethane    | 1.070          | 85   | 4134       | 1.13    | ug/L   | 96       |
| 8) chloromethane              | 1.164          | 50   | 3302       | 1.26    | ug/L   | 95       |
| 9) vinyl chloride             | 1.206          | 62   | 3583       | 1.17    | ug/L   | 97       |
| 12) chloroethane              | 1.416          | 64   | 3241       | 1.31    | ug/L   | 87       |
| 13) trichlorofluoromethane    | 1.479          | 101  | 8928       | 1.19    | ug/L   | 98       |
| 14) ethyl ether               | 1.610          | 74   | 2002       | 1.25    | ug/L   | 88       |
| 15) acrolein                  | 1.851          | 56   | 573        | 1.13    | ug/L   | 84       |
| 16) freon 113                 | 1.720          | 151  | 2450       | 1.03    | ug/L   | 94       |
| 17) 1,1-dichloroethene        | 1.710          | 61   | 3762       | 1.06    | ug/L   | 97       |
| 18) acetone                   | 1.977          | 58   | 1468       | 4.35    | ug/L # | 67       |
| 23) methyl acetate            | 2.024          | 74   | 596        | 1.12    | ug/L # | 66       |
| 24) methyl tert butyl ether   | 2.071          | 73   | 6699       | 1.03    | ug/L # | 56       |
| 25) trans-1,2-dichloroethene  | 2.035          | 61   | 5608       | 1.68    | ug/L   | 91       |
| 27) di-isopropyl ether        | 2.239          | 45   | 6506       | 1.11    | ug/L   | 89       |
| 28) ethyl tert-butyl ether    | 2.402          | 59   | 6301       | 1.03    | ug/L   | 91       |
| 29) 2-butanone                | 2.832          | 72   | 1923       | 4.49    | ug/L # | 82       |
| 30) 1,1-dichloroethane        | 2.312          | 63   | 4372       | 1.08    | ug/L   | 91       |
| 31) chloroprene               | 2.302          | 53   | 3592       | 1.11    | ug/L   | 95       |
| 32) acrylonitrile             | 2.333          | 52   | 718        | 1.03    | ug/L # | 75       |
| 35) 2,2-dichloropropane       | 2.622          | 77   | 3970       | 1.08    | ug/L   | 92       |
| 36) cis-1,2-dichloroethene    | 2.564          | 96   | 2786       | 1.08    | ug/L   | 84       |
| 38) methyl acrylate           | 2.737          | 85   | 434        | 0.87    | ug/L # | 60       |
| 39) bromochloromethane        | 2.659          | 128  | 1347       | 1.08    | ug/L # | 76       |
| 41) chloroform                | 2.690          | 47   | 1539       | 1.25    | ug/L   | 89       |
| 44) 1,1,1-trichloroethane     | 2.805          | 97   | 4288       | 1.02    | ug/L   | 95       |
| 45) cyclohexane               | 2.674          | 84   | 4136       | 1.18    | ug/L   | 96       |
| 46) 1,1-dichloropropene       | 2.863          | 75   | 3238       | 1.01    | ug/L   | 91       |
| 47) carbon tetrachloride      | 2.774          | 117  | 5089       | 1.20    | ug/L # | 70       |

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VU2015\  
 Data File : 2U49561.D  
 Acq On : 28 Oct 2022 6:54 pm  
 Operator : edwardd  
 Sample : ic2015-1  
 Misc : MS63374,V2U2015,5,,,1  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 02 12:34:06 2022

Quant Method : C:\MSDCHEM\1\METHODS\M2U2015.M

Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um

QLast Update : Mon Oct 31 15:40:47 2022

Response via : Initial Calibration

| Compound                      | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|-------|--------|----------|
| 52) iso-octane                | 2.910 | 57   | 8818     | 1.07  | ug/L   | 94       |
| 53) benzene                   | 2.989 | 78   | 9114     | 0.98  | ug/L   | 90       |
| 54) tert-amyl methyl ether    | 3.026 | 73   | 6673     | 1.00  | ug/L   | 93       |
| 55) heptane                   | 2.947 | 57   | 1467     | 1.03  | ug/L   | 91       |
| 56) isopropyl acetate         | 3.183 | 87   | 682      | 1.05  | ug/L # | 90       |
| 57) 1,2-dichloroethane        | 3.083 | 62   | 3987     | 1.22  | ug/L   | 99       |
| 58) n-butyl alcohol           | 3.419 | 56   | 6498     | 60.95 | ug/L   | 94       |
| 59) ethyl acrylate            | 3.555 | 55   | 3677     | 1.05  | ug/L   | 92       |
| 60) trichloroethene           | 3.288 | 130  | 2968     | 1.02  | ug/L   | 94       |
| 62) 2-chloroethyl vinyl ether | 3.917 | 63   | 6167     | 4.37  | ug/L   | 88       |
| 63) methyl methacrylate       | 3.670 | 100  | 657      | 0.87  | ug/L # | 69       |
| 64) 1,2-dichloropropane       | 3.571 | 63   | 2163     | 1.03  | ug/L   | 98       |
| 66) dibromomethane            | 3.518 | 93   | 1848     | 1.03  | ug/L   | 96       |
| 67) bromodichloromethane      | 3.597 | 83   | 3962     | 1.10  | ug/L   | 88       |
| 68) epichlorohydrin           | 4.111 | 57   | 1930     | 5.30  | ug/L # | 74       |
| 69) cis-1,3-dichloropropene   | 3.969 | 75   | 3901     | 1.06  | ug/L   | 88       |
| 70) 4-methyl-2-pentanone      | 4.331 | 58   | 5141     | 4.46  | ug/L   | 88       |
| 71) 3-methyl-1-butanol        | 4.184 | 70   | 2405     | 22.38 | ug/L   | 74       |
| 74) toluene                   | 4.116 | 92   | 5923     | 0.99  | ug/L   | 94       |
| 75) ethyl methacrylate        | 4.452 | 69   | 3564     | 1.15  | ug/L   | 87       |
| 76) trans-1,3-dichloropropene | 4.363 | 75   | 3882     | 1.11  | ug/L   | 95       |
| 77) 1,1,2-trichloroethane     | 4.467 | 83   | 2250     | 1.17  | ug/L   | 92       |
| 78) tetrachloroethene         | 4.363 | 166  | 2954     | 0.95  | ug/L   | 94       |
| 79) 2-hexanone                | 4.876 | 58   | 5734     | 4.54  | ug/L   | 97       |
| 80) 1,3-dichloropropane       | 4.651 | 76   | 3725     | 1.06  | ug/L   | 87       |
| 81) butyl acetate             | 4.813 | 56   | 1710     | 1.08  | ug/L   | 90       |
| 82) dibromochloromethane      | 4.588 | 129  | 3227     | 1.06  | ug/L   | 96       |
| 83) 1,2-dibromoethane         | 4.750 | 107  | 2779     | 1.06  | ug/L   | 73       |
| 84) n-butyl ether             | 5.028 | 57   | 8734     | 1.04  | ug/L   | 99       |
| 85) chlorobenzene             | 5.102 | 112  | 7415     | 1.04  | ug/L # | 60       |
| 86) 1,1,1,2-tetrachloroethane | 5.144 | 131  | 2841     | 1.11  | ug/L   | 87       |
| 87) ethylbenzene              | 5.123 | 91   | 13480    | 1.10  | ug/L   | 91       |
| 88) m,p-xylene                | 5.217 | 106  | 8571     | 1.96  | ug/L   | 87       |
| 89) o-xylene                  | 5.526 | 106  | 4257     | 1.00  | ug/L   | 93       |
| 90) styrene                   | 5.563 | 104  | 6764     | 0.99  | ug/L   | 90       |
| 91) bromoform                 | 5.584 | 173  | 2586     | 1.08  | ug/L   | 95       |
| 92) butyl acrylate            | 5.652 | 55   | 4892     | 1.12  | ug/L   | 98       |
| 93) isopropylbenzene          | 5.757 | 105  | 11275    | 0.99  | ug/L   | 95       |
| 94) cis-1,4-dichloro-2-butene | 6.014 | 88   | 1488     | 1.05  | ug/L   | 95       |
| 97) bromobenzene              | 6.046 | 156  | 3245     | 1.04  | ug/L   | 95       |
| 98) 1,1,2,2-tetrachloroethane | 6.114 | 83   | 4191     | 1.24  | ug/L   | 98       |
| 100) 1,2,3-trichloropropane   | 6.224 | 110  | 1160     | 1.05  | ug/L   | 74       |
| 101) n-propylbenzene          | 6.066 | 91   | 13573    | 1.06  | ug/L   | 88       |
| 102) 2-chlorotoluene          | 6.187 | 126  | 2674     | 0.97  | ug/L # | 73       |
| 103) 4-chlorotoluene          | 6.313 | 91   | 7983     | 1.05  | ug/L   | 92       |
| 104) 1,3,5-trimethylbenzene   | 6.224 | 105  | 9071     | 1.04  | ug/L   | 94       |
| 105) tert-butylbenzene        | 6.470 | 119  | 7562     | 0.98  | ug/L   | 96       |
| 106) 1,2,4-trimethylbenzene   | 6.523 | 105  | 8235     | 0.97  | ug/L   | 94       |
| 107) sec-butylbenzene         | 6.607 | 105  | 11201    | 1.00  | ug/L   | 97       |
| 108) 1,3-dichlorobenzene      | 6.769 | 146  | 5487     | 1.00  | ug/L   | 95       |

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VU2015\  
Data File : 2U49561.D  
Acq On : 28 Oct 2022 6:54 pm  
Operator : edwardd  
Sample : ic2015-1  
Misc : MS63374,V2U2015,5,,,,1  
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 02 12:34:06 2022  
Quant Method : C:\MSDCHEM\1\METHODS\M2U2015.M  
Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um  
QLast Update : Mon Oct 31 15:40:47 2022  
Response via : Initial Calibration

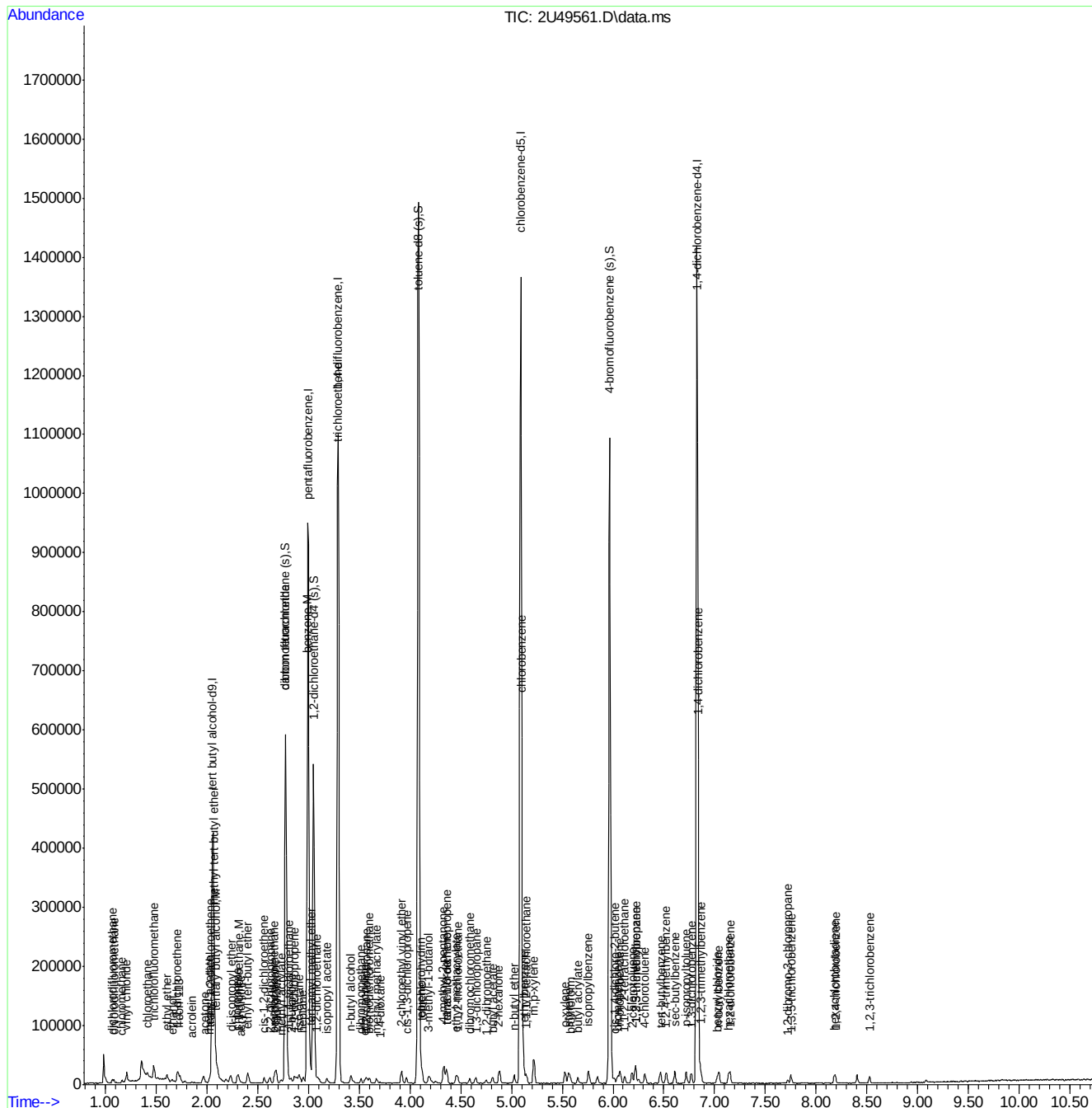
| Compound                       | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|--------------------------------|-------|------|----------|------|-------|----------|
| 109) p-isopropyltoluene        | 6.722 | 119  | 8872     | 0.96 | ug/L  | 88       |
| 110) 1,4-dichlorobenzene       | 6.837 | 146  | 5855     | 1.06 | ug/L  | 64       |
| 111) 1,2-dichlorobenzene       | 7.152 | 146  | 5522     | 1.10 | ug/L  | 90       |
| 112) 1,2,3-trimethylbenzene    | 6.863 | 105  | 9337     | 1.07 | ug/L  | 98       |
| 113) n-butylbenzene            | 7.042 | 92   | 4670     | 1.00 | ug/L  | 92       |
| 114) 1,2-dibromo-3-chloropr... | 7.718 | 157  | 1054     | 1.00 | ug/L  | 76       |
| 115) 1,3,5-trichlorobenzene    | 7.755 | 180  | 3614     | 0.98 | ug/L  | 86       |
| 116) 1,2,4-trichlorobenzene    | 8.190 | 180  | 2988     | 0.98 | ug/L  | 94       |
| 117) hexachlorobutadiene       | 8.179 | 225  | 1484     | 0.98 | ug/L  | 92       |
| 119) 1,2,3-trichlorobenzene    | 8.525 | 180  | 2460     | 0.86 | ug/L  | 93       |
| 120) hexachloroethane          | 7.136 | 119  | 1607     | 0.95 | ug/L  | 76       |
| 121) benzyl chloride           | 7.026 | 126  | 1287     | 1.09 | ug/L  | 96       |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

(QT Reviewed)

Data Path : C:\msdchem\1\DATA\VU2015\  
Data File : 2U49561.D  
Acq On : 28 Oct 2022 6:54 pm  
Operator : edwardd  
Sample : ic2015-1  
Misc : MS63374,V2U2015,5,,,,,1  
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 02 12:34:06 2022  
Quant Method : C:\MSDCHEM\1\METHODS\M2U2015.M  
Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um  
QLast Update : Mon Oct 31 15:40:47 2022  
Response via : Initial Calibration



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VU2015\  
 Data File : 2U49563.D  
 Acq On : 28 Oct 2022 7:23 pm  
 Operator : edwardd  
 Sample : ic2015-2  
 Misc : MS63374,V2U2015,5,,,1  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Nov 01 17:23:54 2022

Quant Method : C:\MSDCHEM\1\METHODS\M2U2015.M

Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um

QLast Update : Mon Oct 31 14:55:54 2022

Response via : Initial Calibration

| Compound                      | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|---------|--------|----------|
| Internal Standards            |                |      |            |         |        |          |
| 1) tert butyl alcohol-d9      | 2.061          | 65   | 388369     | 500.00  | ug/L   | 0.00     |
| 5) pentafluorobenzene         | 2.999          | 168  | 419920     | 50.00   | ug/L   | 0.00     |
| 50) 1,4-difluorobenzene       | 3.293          | 114  | 588506     | 50.00   | ug/L   | 0.00     |
| 72) chlorobenzene-d5          | 5.091          | 117  | 559025     | 50.00   | ug/L   | 0.00     |
| 95) 1,4-dichlorobenzene-d4    | 6.827          | 152  | 276048     | 50.00   | ug/L   | 0.00     |
| System Monitoring Compounds   |                |      |            |         |        |          |
| 42) dibromofluoromethane (s)  | 2.779          | 113  | 214301     | 55.54   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 127 |      | Recovery = | 111.08% |        |          |
| 51) 1,2-dichloroethane-d4 (s) | 3.052          | 65   | 242264     | 53.49   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 130 |      | Recovery = | 106.98% |        |          |
| 73) toluene-d8 (s)            | 4.085          | 98   | 711743     | 53.89   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 80 - 120 |      | Recovery = | 107.78% |        |          |
| 96) 4-bromofluorobenzene (s)  | 5.967          | 95   | 251085     | 55.09   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 79 - 127 |      | Recovery = | 110.18% |        |          |
| Target Compounds              |                |      |            |         |        |          |
|                               |                |      |            |         | Qvalue |          |
| 2) ethanol                    | 1.662          | 45   | 7319       | 224.57  | ug/L   | 92       |
| 3) tertiary butyl alcohol     | 2.097          | 59   | 5538       | 10.94   | ug/L # | 65       |
| 4) 1,4-dioxane                | 3.712          | 88   | 2078       | 42.86   | ug/L   | 98       |
| 6) chlorodifluoromethane      | 1.091          | 51   | 5266       | 2.19    | ug/L   | 89       |
| 7) dichlorodifluoromethane    | 1.075          | 85   | 8150       | 2.34    | ug/L   | 98       |
| 8) chloromethane              | 1.175          | 50   | 5840       | 2.59    | ug/L   | 93       |
| 9) vinyl chloride             | 1.211          | 62   | 6562       | 2.34    | ug/L   | 87       |
| 11) bromomethane              | 1.363          | 96   | 7988       | 3.14    | ug/L # | 96       |
| 12) chloroethane              | 1.421          | 64   | 5800       | 2.57    | ug/L   | 87       |
| 13) trichlorofluoromethane    | 1.484          | 101  | 16536      | 2.36    | ug/L   | 93       |
| 14) ethyl ether               | 1.615          | 74   | 3077       | 2.02    | ug/L   | 90       |
| 15) acrolein                  | 1.856          | 56   | 1109       | 2.23    | ug/L   | 88       |
| 16) freon 113                 | 1.725          | 151  | 4701       | 2.03    | ug/L # | 90       |
| 17) 1,1-dichloroethene        | 1.715          | 61   | 7248       | 2.16    | ug/L   | 98       |
| 18) acetone                   | 1.982          | 58   | 3255       | 8.49    | ug/L   | 87       |
| 19) acetonitrile              | 2.197          | 41   | 7175       | 22.35   | ug/L   | 94       |
| 20) iodomethane               | 1.788          | 142  | 2421       | 1.03    | ug/L   | 85       |
| 21) carbon disulfide          | 1.741          | 76   | 14027      | 2.22    | ug/L   | 96       |
| 22) methylene chloride        | 1.966          | 84   | 5165       | 2.33    | ug/L   | 89       |
| 23) methyl acetate            | 2.029          | 74   | 1099       | 2.12    | ug/L # | 78       |
| 24) methyl tert butyl ether   | 2.076          | 73   | 13256      | 2.10    | ug/L   | 73       |
| 25) trans-1,2-dichloroethene  | 2.040          | 61   | 8426       | 2.83    | ug/L   | 96       |
| 26) hexane                    | 2.071          | 57   | 10009      | 2.23    | ug/L   | 91       |
| 27) di-isopropyl ether        | 2.239          | 45   | 11811      | 2.09    | ug/L   | 95       |
| 28) ethyl tert-butyl ether    | 2.407          | 59   | 12067      | 2.01    | ug/L   | 97       |
| 29) 2-butanone                | 2.831          | 72   | 3594       | 8.00    | ug/L   | 91       |
| 30) 1,1-dichloroethane        | 2.318          | 63   | 8475       | 2.17    | ug/L   | 97       |
| 31) chloroprene               | 2.307          | 53   | 6563       | 2.07    | ug/L   | 95       |
| 32) acrylonitrile             | 2.333          | 52   | 1547       | 2.11    | ug/L   | 91       |
| 33) vinyl acetate             | 2.412          | 86   | 924        | 1.87    | ug/L # | 77       |
| 34) ethyl acetate             | 2.732          | 70   | 587        | 1.88    | ug/L # | 68       |
| 35) 2,2-dichloropropane       | 2.622          | 77   | 7823       | 2.17    | ug/L   | 97       |



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VU2015\  
 Data File : 2U49563.D  
 Acq On : 28 Oct 2022 7:23 pm  
 Operator : edwardd  
 Sample : ic2015-2  
 Misc : MS63374,V2U2015,5,,,1  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Nov 01 17:23:54 2022

Quant Method : C:\MSDCHEM\1\METHODS\M2U2015.M

Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um

QLast Update : Mon Oct 31 14:55:54 2022

Response via : Initial Calibration

| Compound                      | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|-------|--------|----------|
| 36) cis-1,2-dichloroethene    | 2.564 | 96   | 4927     | 1.97  | ug/L   | 94       |
| 37) propionitrile             | 2.989 | 54   | 9010     | 20.96 | ug/L # | 47       |
| 38) methyl acrylate           | 2.742 | 85   | 927      | 1.74  | ug/L   | 95       |
| 39) bromochloromethane        | 2.664 | 128  | 2455     | 2.03  | ug/L   | 87       |
| 40) tetrahydrofuran           | 2.779 | 71   | 924      | 2.24  | ug/L   | 89       |
| 41) chloroform                | 2.690 | 47   | 2872     | 2.56  | ug/L   | 78       |
| 44) 1,1,1-trichloroethane     | 2.811 | 97   | 8802     | 2.12  | ug/L   | 94       |
| 45) cyclohexane               | 2.679 | 84   | 7972     | 2.43  | ug/L   | 92       |
| 46) 1,1-dichloropropene       | 2.863 | 75   | 6555     | 2.05  | ug/L   | 95       |
| 47) carbon tetrachloride      | 2.779 | 117  | 8550     | 2.15  | ug/L # | 81       |
| 48) isobutyl alcohol          | 3.031 | 43   | 5811     | 18.81 | ug/L   | 78       |
| 49) tert-amyl alcohol         | 3.109 | 55   | 1796     | 11.76 | ug/L # | 55       |
| 52) iso-octane                | 2.910 | 57   | 16718    | 2.08  | ug/L   | 94       |
| 53) benzene                   | 2.989 | 78   | 17816    | 1.96  | ug/L   | 94       |
| 54) tert-amyl methyl ether    | 3.031 | 73   | 12965    | 1.98  | ug/L   | 92       |
| 55) heptane                   | 2.952 | 57   | 2569     | 1.79  | ug/L   | 92       |
| 56) isopropyl acetate         | 3.183 | 87   | 1254     | 1.90  | ug/L # | 87       |
| 57) 1,2-dichloroethane        | 3.088 | 62   | 6703     | 2.13  | ug/L   | 98       |
| 58) n-butyl alcohol           | 3.419 | 56   | 9753     | 92.04 | ug/L   | 84       |
| 59) ethyl acrylate            | 3.555 | 55   | 6282     | 1.85  | ug/L   | 85       |
| 60) trichloroethene           | 3.293 | 130  | 4843     | 1.63  | ug/L   | 96       |
| 62) 2-chloroethyl vinyl ether | 3.922 | 63   | 12146    | 7.92  | ug/L   | 94       |
| 63) methyl methacrylate       | 3.670 | 100  | 1385     | 1.73  | ug/L # | 83       |
| 64) 1,2-dichloropropane       | 3.576 | 63   | 4005     | 1.88  | ug/L   | 95       |
| 65) methylcyclohexane         | 3.293 | 55   | 7525     | 2.73  | ug/L # | 63       |
| 66) dibromomethane            | 3.518 | 93   | 3131     | 1.79  | ug/L   | 98       |
| 67) bromodichloromethane      | 3.602 | 83   | 7168     | 2.05  | ug/L   | 99       |
| 68) epichlorohydrin           | 4.111 | 57   | 4053     | 11.59 | ug/L # | 73       |
| 69) cis-1,3-dichloropropene   | 3.969 | 75   | 6495     | 1.73  | ug/L   | 88       |
| 70) 4-methyl-2-pentanone      | 4.336 | 58   | 8591     | 7.37  | ug/L   | 92       |
| 71) 3-methyl-1-butanol        | 4.189 | 70   | 3584     | 32.09 | ug/L   | 74       |
| 74) toluene                   | 4.116 | 92   | 11122    | 1.91  | ug/L   | 96       |
| 75) ethyl methacrylate        | 4.457 | 69   | 5472     | 1.79  | ug/L   | 92       |
| 76) trans-1,3-dichloropropene | 4.362 | 75   | 6183     | 1.83  | ug/L   | 92       |
| 77) 1,1,2-trichloroethane     | 4.473 | 83   | 3754     | 2.05  | ug/L   | 94       |
| 78) tetrachloroethene         | 4.362 | 166  | 5265     | 1.62  | ug/L   | 73       |
| 79) 2-hexanone                | 4.882 | 58   | 10032    | 8.14  | ug/L   | 88       |
| 80) 1,3-dichloropropane       | 4.651 | 76   | 6910     | 2.05  | ug/L   | 99       |
| 81) butyl acetate             | 4.813 | 56   | 2960     | 1.92  | ug/L   | 94       |
| 82) dibromochloromethane      | 4.588 | 129  | 5112     | 1.75  | ug/L   | 84       |
| 83) 1,2-dibromoethane         | 4.750 | 107  | 4835     | 1.84  | ug/L   | 80       |
| 84) n-butyl ether             | 5.028 | 57   | 15179    | 1.80  | ug/L   | 97       |
| 85) chlorobenzene             | 5.102 | 112  | 13477    | 1.89  | ug/L   | 80       |
| 86) 1,1,1,2-tetrachloroethane | 5.144 | 131  | 4778     | 1.77  | ug/L   | 89       |
| 87) ethylbenzene              | 5.117 | 91   | 23448    | 2.00  | ug/L   | 90       |
| 88) m,p-xylene                | 5.222 | 106  | 16170    | 3.49  | ug/L   | 92       |
| 89) o-xylene                  | 5.526 | 106  | 7406     | 1.70  | ug/L   | 90       |
| 90) styrene                   | 5.568 | 104  | 12577    | 1.71  | ug/L   | 99       |
| 91) bromoform                 | 5.584 | 173  | 4128     | 1.61  | ug/L   | 97       |
| 92) butyl acrylate            | 5.652 | 55   | 8377     | 1.92  | ug/L   | 93       |



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VU2015\  
 Data File : 2U49563.D  
 Acq On : 28 Oct 2022 7:23 pm  
 Operator : edwardd  
 Sample : ic2015-2  
 Misc : MS63374,V2U2015,5,,,1  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Nov 01 17:23:54 2022

Quant Method : C:\MSDCHEM\1\METHODS\M2U2015.M

Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um

QLast Update : Mon Oct 31 14:55:54 2022

Response via : Initial Calibration

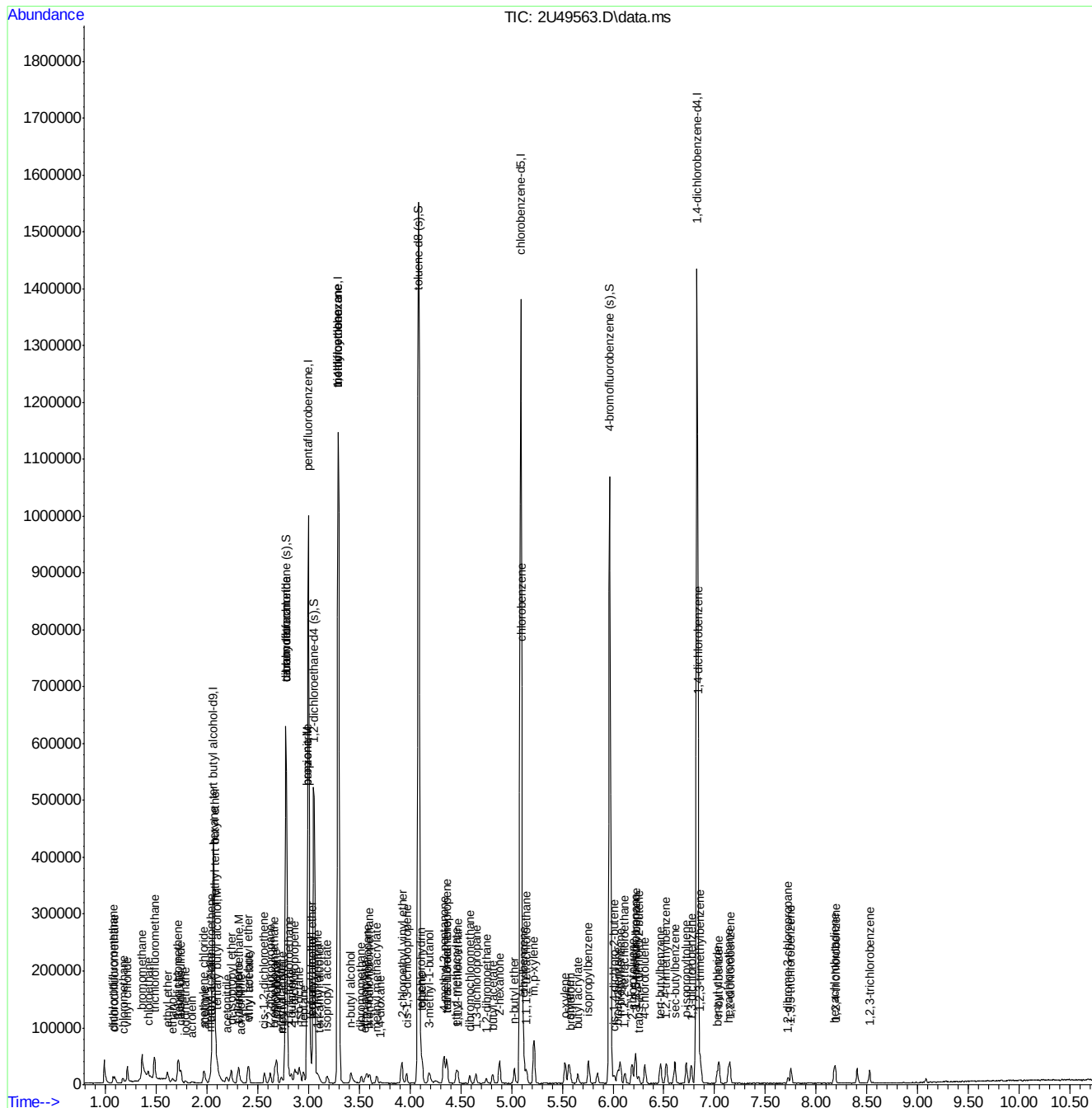
| Compound                       | R.T.  | QIon | Response | Conc | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|------|--------|----------|
| 93) isopropylbenzene           | 5.757 | 105  | 21592    | 1.78 | ug/L   | 94       |
| 94) cis-1,4-dichloro-2-butene  | 6.009 | 88   | 2723     | 1.88 | ug/L   | 90       |
| 97) bromobenzene               | 6.045 | 156  | 5657     | 1.93 | ug/L   | 94       |
| 98) 1,1,2,2-tetrachloroethane  | 6.114 | 83   | 6611     | 2.17 | ug/L   | 94       |
| 99) trans-1,4-dichloro-2-b...  | 6.255 | 53   | 1746     | 2.24 | ug/L # | 76       |
| 100) 1,2,3-trichloropropane    | 6.218 | 110  | 2246     | 2.15 | ug/L   | 95       |
| 101) n-propylbenzene           | 6.072 | 91   | 24814    | 1.99 | ug/L   | 94       |
| 102) 2-chlorotoluene           | 6.187 | 126  | 5274     | 1.93 | ug/L   | 88       |
| 103) 4-chlorotoluene           | 6.313 | 91   | 15261    | 2.12 | ug/L   | 87       |
| 104) 1,3,5-trimethylbenzene    | 6.224 | 105  | 16627    | 1.91 | ug/L   | 97       |
| 105) tert-butylbenzene         | 6.465 | 119  | 14376    | 1.82 | ug/L   | 91       |
| 106) 1,2,4-trimethylbenzene    | 6.523 | 105  | 16220    | 1.86 | ug/L   | 99       |
| 107) sec-butylbenzene          | 6.612 | 105  | 21320    | 1.88 | ug/L   | 96       |
| 108) 1,3-dichlorobenzene       | 6.769 | 146  | 9767     | 1.76 | ug/L   | 92       |
| 109) p-isopropyltoluene        | 6.722 | 119  | 17162    | 1.77 | ug/L   | 98       |
| 110) 1,4-dichlorobenzene       | 6.837 | 146  | 10492    | 1.87 | ug/L   | 79       |
| 111) 1,2-dichlorobenzene       | 7.152 | 146  | 9521     | 1.85 | ug/L   | 95       |
| 112) 1,2,3-trimethylbenzene    | 6.858 | 105  | 16267    | 1.90 | ug/L   | 91       |
| 113) n-butylbenzene            | 7.042 | 92   | 8782     | 1.83 | ug/L   | 90       |
| 114) 1,2-dibromo-3-chloropr... | 7.723 | 157  | 1832     | 1.78 | ug/L   | 91       |
| 115) 1,3,5-trichlorobenzene    | 7.749 | 180  | 6580     | 1.85 | ug/L   | 96       |
| 116) 1,2,4-trichlorobenzene    | 8.190 | 180  | 5584     | 1.94 | ug/L   | 92       |
| 117) hexachlorobutadiene       | 8.179 | 225  | 2578     | 1.84 | ug/L   | 92       |
| 119) 1,2,3-trichlorobenzene    | 8.525 | 180  | 4862     | 1.74 | ug/L   | 89       |
| 120) hexachloroethane          | 7.136 | 119  | 2902     | 1.61 | ug/L   | 90       |
| 121) benzyl chloride           | 7.026 | 126  | 2111     | 1.64 | ug/L   | 96       |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VU2015\  
Data File : 2U49563.D  
Acq On : 28 Oct 2022 7:23 pm  
Operator : edwardd  
Sample : ic2015-2  
Misc : MS63374,V2U2015,5,,,,,1  
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Nov 01 17:23:54 2022  
Quant Method : C:\MSDCHEM\1\METHODS\M2U2015.M  
Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um  
QLast Update : Mon Oct 31 14:55:54 2022  
Response via : Initial Calibration



7.6.30

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VU2015\  
 Data File : 2U49565.D  
 Acq On : 28 Oct 2022 7:52 pm  
 Operator : edwardd  
 Sample : ic2015-4  
 Misc : MS63374,V2U2015,5,,,1  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 31 14:56:29 2022

Quant Method : C:\MSDCHEM\1\METHODS\M2U2015.M

Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um

QLast Update : Mon Oct 31 14:55:54 2022

Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|-------|----------|
| Internal Standards            |        |       |          |          |       |          |
| 1) tert butyl alcohol-d9      | 2.056  | 65    | 391676   | 500.00   | ug/L  | 0.00     |
| 5) pentafluorobenzene         | 2.999  | 168   | 418613   | 50.00    | ug/L  | 0.00     |
| 50) 1,4-difluorobenzene       | 3.293  | 114   | 578117   | 50.00    | ug/L  | 0.00     |
| 72) chlorobenzene-d5          | 5.091  | 117   | 557342   | 50.00    | ug/L  | 0.00     |
| 95) 1,4-dichlorobenzene-d4    | 6.827  | 152   | 276027   | 50.00    | ug/L  | 0.00     |
| System Monitoring Compounds   |        |       |          |          |       |          |
| 42) dibromofluoromethane (s)  | 2.779  | 113   | 211299   | 54.93    | ug/L  | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 127 | Recovery | =     | 109.86%  |
| 51) 1,2-dichloroethane-d4 (s) | 3.052  | 65    | 241192   | 54.21    | ug/L  | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 130 | Recovery | =     | 108.42%  |
| 73) toluene-d8 (s)            | 4.085  | 98    | 704449   | 53.50    | ug/L  | 0.00     |
| Spiked Amount                 | 50.000 | Range | 80 - 120 | Recovery | =     | 107.00%  |
| 96) 4-bromofluorobenzene (s)  | 5.967  | 95    | 252141   | 55.32    | ug/L  | 0.00     |
| Spiked Amount                 | 50.000 | Range | 79 - 127 | Recovery | =     | 110.64%  |
| Target Compounds              |        |       |          |          |       |          |
| 2) ethanol                    | 1.657  | 45    | 14392    | 437.87   | ug/L  | 100      |
| 3) tertiary butyl alcohol     | 2.092  | 59    | 10465    | 20.49    | ug/L  | 97       |
| 4) 1,4-dioxane                | 3.712  | 88    | 4399     | 89.96    | ug/L  | 93       |
| 6) chlorodifluoromethane      | 1.086  | 51    | 9106     | 3.80     | ug/L  | 94       |
| 7) dichlorodifluoromethane    | 1.070  | 85    | 14919    | 4.30     | ug/L  | 97       |
| 8) chloromethane              | 1.164  | 50    | 11003    | 4.89     | ug/L  | 98       |
| 9) vinyl chloride             | 1.206  | 62    | 13004    | 4.66     | ug/L  | 97       |
| 10) 1,3-butadiene             | 1.212  | 39    | 8196     | 4.97     | ug/L  | 93       |
| 11) bromomethane              | 1.358  | 96    | 14783    | 5.83     | ug/L  | # 93     |
| 12) chloroethane              | 1.416  | 64    | 10499    | 4.66     | ug/L  | 96       |
| 13) trichlorofluoromethane    | 1.479  | 101   | 31305    | 4.47     | ug/L  | 98       |
| 14) ethyl ether               | 1.610  | 74    | 6255     | 4.12     | ug/L  | 94       |
| 15) acrolein                  | 1.851  | 56    | 1982     | 4.01     | ug/L  | 86       |
| 16) freon 113                 | 1.720  | 151   | 9175     | 3.97     | ug/L  | 91       |
| 17) 1,1-dichloroethene        | 1.710  | 61    | 13636    | 4.07     | ug/L  | 96       |
| 18) acetone                   | 1.977  | 58    | 4332     | 11.33    | ug/L  | 87       |
| 19) acetonitrile              | 2.187  | 41    | 14159    | 44.25    | ug/L  | 94       |
| 20) iodomethane               | 1.783  | 142   | 4557     | 1.95     | ug/L  | 93       |
| 21) carbon disulfide          | 1.736  | 76    | 26693    | 4.25     | ug/L  | 94       |
| 22) methylene chloride        | 1.961  | 84    | 8959     | 4.05     | ug/L  | 98       |
| 23) methyl acetate            | 2.024  | 74    | 2188     | 4.24     | ug/L  | # 82     |
| 24) methyl tert butyl ether   | 2.071  | 73    | 24939    | 3.97     | ug/L  | 76       |
| 25) trans-1,2-dichloroethene  | 2.035  | 61    | 14740    | 4.97     | ug/L  | 94       |
| 26) hexane                    | 2.066  | 57    | 18096    | 4.05     | ug/L  | 96       |
| 27) di-isopropyl ether        | 2.234  | 45    | 22950    | 4.08     | ug/L  | 93       |
| 28) ethyl tert-butyl ether    | 2.402  | 59    | 23303    | 3.90     | ug/L  | 99       |
| 29) 2-butanone                | 2.826  | 72    | 6891     | 15.38    | ug/L  | # 86     |
| 30) 1,1-dichloroethane        | 2.313  | 63    | 15967    | 4.11     | ug/L  | 96       |
| 31) chloroprene               | 2.302  | 53    | 13057    | 4.13     | ug/L  | 94       |
| 32) acrylonitrile             | 2.328  | 52    | 2814     | 3.86     | ug/L  | 96       |
| 33) vinyl acetate             | 2.412  | 86    | 1839     | 3.74     | ug/L  | # 85     |
| 34) ethyl acetate             | 2.727  | 70    | 1135     | 3.64     | ug/L  | 98       |

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VU2015\  
 Data File : 2U49565.D  
 Acq On : 28 Oct 2022 7:52 pm  
 Operator : edwardd  
 Sample : ic2015-4  
 Misc : MS63374,V2U2015,5,,,1  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 31 14:56:29 2022

Quant Method : C:\MSDCHEM\1\METHODS\M2U2015.M

Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um

QLast Update : Mon Oct 31 14:55:54 2022

Response via : Initial Calibration

| Compound                      | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|--------|--------|----------|
| 35) 2,2-dichloropropane       | 2.622 | 77   | 14273    | 3.97   | ug/L   | 97       |
| 36) cis-1,2-dichloroethene    | 2.564 | 96   | 9661     | 3.88   | ug/L   | 98       |
| 37) propionitrile             | 2.984 | 54   | 18895    | 44.09  | ug/L   | 90       |
| 38) methyl acrylate           | 2.737 | 85   | 2146     | 4.03   | ug/L # | 82       |
| 39) bromochloromethane        | 2.664 | 128  | 4948     | 4.10   | ug/L   | 94       |
| 40) tetrahydrofuran           | 2.774 | 71   | 1591     | 3.87   | ug/L   | 94       |
| 41) chloroform                | 2.685 | 47   | 5122     | 4.59   | ug/L   | 98       |
| 43) methacrylonitrile         | 2.994 | 67   | 5382     | 4.58   | ug/L   | 87       |
| 44) 1,1,1-trichloroethane     | 2.805 | 97   | 15921    | 3.85   | ug/L   | 95       |
| 45) cyclohexane               | 2.680 | 84   | 14710    | 4.49   | ug/L   | 99       |
| 46) 1,1-dichloropropene       | 2.863 | 75   | 12653    | 3.97   | ug/L   | 97       |
| 47) carbon tetrachloride      | 2.774 | 117  | 16878    | 4.25   | ug/L   | 90       |
| 48) isobutyl alcohol          | 3.031 | 43   | 12135    | 39.40  | ug/L   | 89       |
| 49) tert-amyl alcohol         | 3.104 | 55   | 3587     | 23.56  | ug/L   | 93       |
| 52) iso-octane                | 2.910 | 57   | 31370    | 3.98   | ug/L   | 99       |
| 53) benzene                   | 2.989 | 78   | 34647    | 3.87   | ug/L   | 95       |
| 54) tert-amyl methyl ether    | 3.026 | 73   | 24184    | 3.75   | ug/L   | 95       |
| 55) heptane                   | 2.952 | 57   | 5090     | 3.61   | ug/L   | 91       |
| 56) isopropyl acetate         | 3.183 | 87   | 2386     | 3.68   | ug/L   | 97       |
| 57) 1,2-dichloroethane        | 3.089 | 62   | 12834    | 4.16   | ug/L   | 96       |
| 58) n-butyl alcohol           | 3.419 | 56   | 21427    | 205.85 | ug/L   | 94       |
| 59) ethyl acrylate            | 3.555 | 55   | 12933    | 3.88   | ug/L   | 95       |
| 60) trichloroethene           | 3.288 | 130  | 10203    | 3.50   | ug/L   | 97       |
| 61) 2-nitropropane            | 4.252 | 41   | 3586     | 4.03   | ug/L # | 69       |
| 62) 2-chloroethyl vinyl ether | 3.917 | 63   | 25918    | 17.20  | ug/L   | 96       |
| 63) methyl methacrylate       | 3.671 | 100  | 2750     | 3.49   | ug/L # | 76       |
| 64) 1,2-dichloropropane       | 3.576 | 63   | 8430     | 4.02   | ug/L   | 86       |
| 65) methylcyclohexane         | 3.288 | 55   | 11789    | 4.36   | ug/L   | 72       |
| 66) dibromomethane            | 3.518 | 93   | 6677     | 3.88   | ug/L   | 95       |
| 67) bromodichloromethane      | 3.597 | 83   | 13302    | 3.87   | ug/L   | 100      |
| 68) epichlorohydrin           | 4.111 | 57   | 7733     | 22.52  | ug/L   | 88       |
| 69) cis-1,3-dichloropropene   | 3.964 | 75   | 13416    | 3.64   | ug/L   | 88       |
| 70) 4-methyl-2-pentanone      | 4.336 | 58   | 18131    | 15.83  | ug/L   | 98       |
| 71) 3-methyl-1-butanol        | 4.190 | 70   | 8185     | 74.60  | ug/L   | 94       |
| 74) toluene                   | 4.116 | 92   | 21747    | 3.75   | ug/L   | 99       |
| 75) ethyl methacrylate        | 4.452 | 69   | 11459    | 3.77   | ug/L   | 92       |
| 76) trans-1,3-dichloropropene | 4.363 | 75   | 13061    | 3.88   | ug/L   | 96       |
| 77) 1,1,2-trichloroethane     | 4.467 | 83   | 7094     | 3.89   | ug/L   | 97       |
| 78) tetrachloroethene         | 4.363 | 166  | 10653    | 3.29   | ug/L   | 96       |
| 79) 2-hexanone                | 4.882 | 58   | 19324    | 15.73  | ug/L   | 90       |
| 80) 1,3-dichloropropane       | 4.651 | 76   | 13110    | 3.89   | ug/L   | 94       |
| 81) butyl acetate             | 4.814 | 56   | 6073     | 3.95   | ug/L   | 97       |
| 82) dibromochloromethane      | 4.588 | 129  | 10622    | 3.64   | ug/L   | 94       |
| 83) 1,2-dibromoethane         | 4.751 | 107  | 9229     | 3.51   | ug/L   | 99       |
| 84) n-butyl ether             | 5.028 | 57   | 31582    | 3.75   | ug/L   | 96       |
| 85) chlorobenzene             | 5.102 | 112  | 25626    | 3.61   | ug/L   | 87       |
| 86) 1,1,1,2-tetrachloroethane | 5.144 | 131  | 8990     | 3.34   | ug/L   | 84       |
| 87) ethylbenzene              | 5.118 | 91   | 43469    | 3.72   | ug/L   | 95       |
| 88) m,p-xylene                | 5.222 | 106  | 32089    | 6.94   | ug/L   | 94       |
| 89) o-xylene                  | 5.527 | 106  | 15231    | 3.50   | ug/L   | 91       |

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VU2015\  
 Data File : 2U49565.D  
 Acq On : 28 Oct 2022 7:52 pm  
 Operator : edwardd  
 Sample : ic2015-4  
 Misc : MS63374,V2U2015,5,,,1  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 31 14:56:29 2022

Quant Method : C:\MSDCHEM\1\METHODS\M2U2015.M

Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um

QLast Update : Mon Oct 31 14:55:54 2022

Response via : Initial Calibration

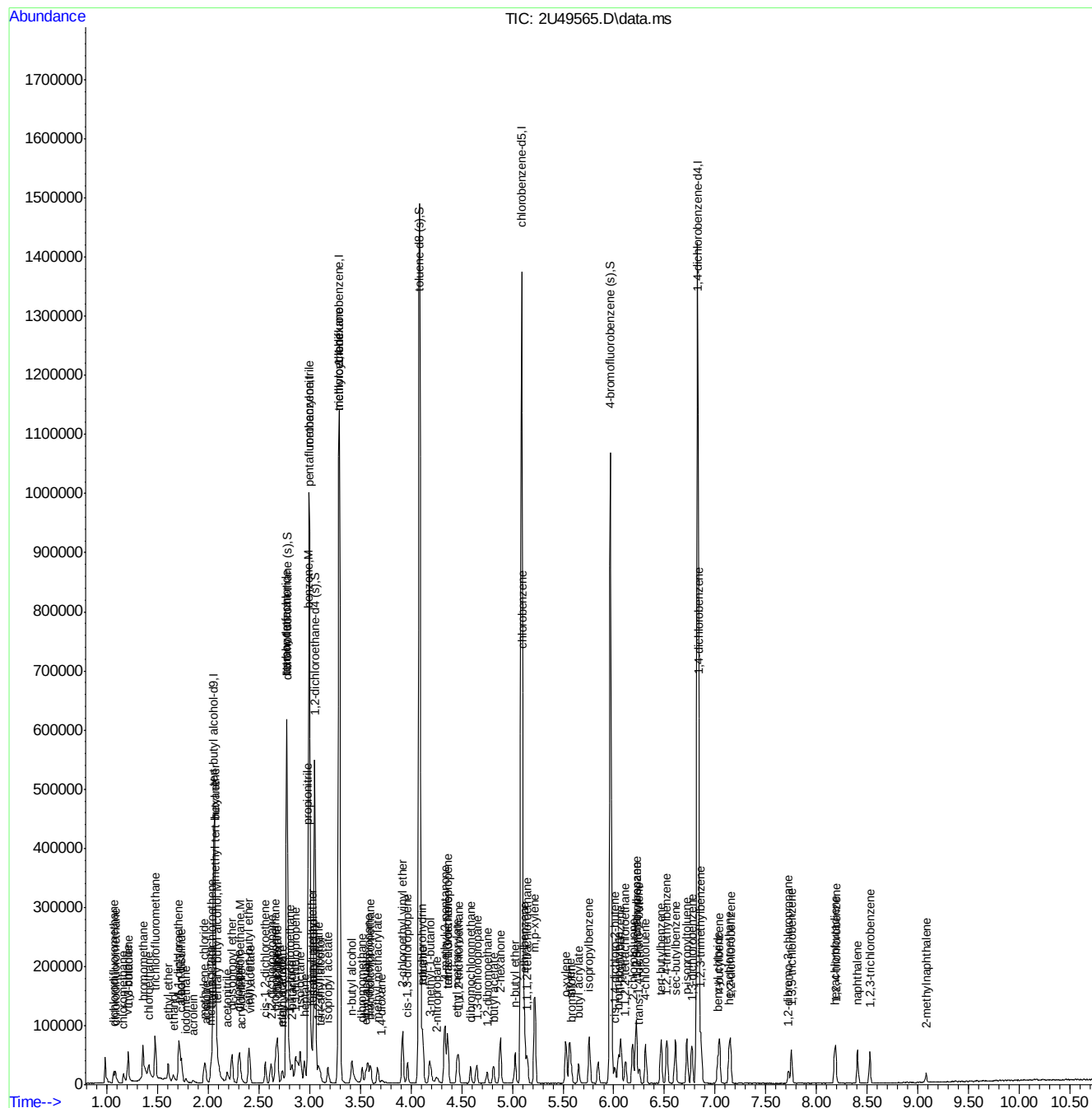
| Compound                       | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|--------------------------------|-------|------|----------|------|-------|----------|
| 90) styrene                    | 5.568 | 104  | 24896    | 3.40 | ug/L  | 95       |
| 91) bromoform                  | 5.584 | 173  | 8777     | 3.42 | ug/L  | 96       |
| 92) butyl acrylate             | 5.652 | 55   | 16551    | 3.81 | ug/L  | 96       |
| 93) isopropylbenzene           | 5.757 | 105  | 41220    | 3.41 | ug/L  | 96       |
| 94) cis-1,4-dichloro-2-butene  | 6.009 | 88   | 5269     | 3.66 | ug/L  | 85       |
| 97) bromobenzene               | 6.046 | 156  | 11053    | 3.77 | ug/L  | 87       |
| 98) 1,1,2,2-tetrachloroethane  | 6.114 | 83   | 14048    | 4.61 | ug/L  | 94       |
| 99) trans-1,4-dichloro-2-b...  | 6.250 | 53   | 3342     | 4.30 | ug/L  | 98       |
| 100) 1,2,3-trichloropropane    | 6.224 | 110  | 4646     | 4.44 | ug/L  | 96       |
| 101) n-propylbenzene           | 6.067 | 91   | 49787    | 3.99 | ug/L  | 93       |
| 102) 2-chlorotoluene           | 6.187 | 126  | 10267    | 3.76 | ug/L  | 97       |
| 103) 4-chlorotoluene           | 6.313 | 91   | 28917    | 4.02 | ug/L  | 99       |
| 104) 1,3,5-trimethylbenzene    | 6.224 | 105  | 32059    | 3.68 | ug/L  | 96       |
| 105) tert-butylbenzene         | 6.465 | 119  | 29007    | 3.68 | ug/L  | 91       |
| 106) 1,2,4-trimethylbenzene    | 6.523 | 105  | 32307    | 3.71 | ug/L  | 90       |
| 107) sec-butylbenzene          | 6.607 | 105  | 41815    | 3.69 | ug/L  | 96       |
| 108) 1,3-dichlorobenzene       | 6.769 | 146  | 19653    | 3.54 | ug/L  | 97       |
| 109) p-isopropyltoluene        | 6.722 | 119  | 33831    | 3.49 | ug/L  | 94       |
| 110) 1,4-dichlorobenzene       | 6.837 | 146  | 20862    | 3.72 | ug/L  | 93       |
| 111) 1,2-dichlorobenzene       | 7.152 | 146  | 18800    | 3.65 | ug/L  | 97       |
| 112) 1,2,3-trimethylbenzene    | 6.858 | 105  | 32967    | 3.84 | ug/L  | 96       |
| 113) n-butylbenzene            | 7.042 | 92   | 17212    | 3.59 | ug/L  | 98       |
| 114) 1,2-dibromo-3-chloropr... | 7.723 | 157  | 3903     | 3.80 | ug/L  | 80       |
| 115) 1,3,5-trichlorobenzene    | 7.755 | 180  | 13363    | 3.76 | ug/L  | 98       |
| 116) 1,2,4-trichlorobenzene    | 8.190 | 180  | 11021    | 3.83 | ug/L  | 97       |
| 117) hexachlorobutadiene       | 8.180 | 225  | 5324     | 3.80 | ug/L  | 89       |
| 118) naphthalene               | 8.405 | 128  | 29676    | 3.53 | ug/L  | 97       |
| 119) 1,2,3-trichlorobenzene    | 8.526 | 180  | 10327    | 3.70 | ug/L  | 97       |
| 120) hexachloroethane          | 7.136 | 119  | 6168     | 3.41 | ug/L  | 89       |
| 121) benzyl chloride           | 7.026 | 126  | 3980     | 3.09 | ug/L  | 95       |
| 122) 2-methylnaphthalene       | 9.081 | 142  | 4874     | 1.78 | ug/L  | 90       |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

(QT Reviewed)

```
Data Path   : C:\msdchem\1\DATA\VU2015\
Data File   : 2U49565.D
Acq On      : 28 Oct 2022    7:52 pm
Operator    : edwardd
Sample      : ic2015-4
Misc        : MS63374,V2U2015,5,,,,,1
ALS Vial    : 11    Sample Multiplier: 1
```

Quant Time: Oct 31 14:56:29 2022  
Quant Method : C:\MSDCHEM\1\METHODS\M2U2015.M  
Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um  
QLast Update : Mon Oct 31 14:55:54 2022  
Response via : Initial Calibration



7.6.31

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VU2015\  
 Data File : 2U49567.D  
 Acq On : 28 Oct 2022 8:21 pm  
 Operator : edwardd  
 Sample : ic2015-8  
 Misc : MS63374,V2U2015,5,,,1  
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 31 14:56:32 2022

Quant Method : C:\MSDCHEM\1\METHODS\M2U2015.M

Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um

QLast Update : Mon Oct 31 14:55:54 2022

Response via : Initial Calibration

| Compound                      | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|---------|--------|----------|
| Internal Standards            |                |      |            |         |        |          |
| 1) tert butyl alcohol-d9      | 2.055          | 65   | 394172     | 500.00  | ug/L   | 0.00     |
| 5) pentafluorobenzene         | 2.999          | 168  | 422085     | 50.00   | ug/L   | 0.00     |
| 50) 1,4-difluorobenzene       | 3.293          | 114  | 583812     | 50.00   | ug/L   | 0.00     |
| 72) chlorobenzene-d5          | 5.091          | 117  | 565210     | 50.00   | ug/L   | 0.00     |
| 95) 1,4-dichlorobenzene-d4    | 6.827          | 152  | 280477     | 50.00   | ug/L   | 0.00     |
| System Monitoring Compounds   |                |      |            |         |        |          |
| 42) dibromofluoromethane (s)  | 2.774          | 113  | 213475     | 55.04   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 127 |      | Recovery = | 110.08% |        |          |
| 51) 1,2-dichloroethane-d4 (s) | 3.052          | 65   | 240636     | 53.56   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 130 |      | Recovery = | 107.12% |        |          |
| 73) toluene-d8 (s)            | 4.085          | 98   | 706312     | 52.89   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 80 - 120 |      | Recovery = | 105.78% |        |          |
| 96) 4-bromofluorobenzene (s)  | 5.967          | 95   | 255619     | 55.20   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 79 - 127 |      | Recovery = | 110.40% |        |          |
| Target Compounds              |                |      |            |         |        |          |
| 2) ethanol                    | 1.657          | 45   | 29417      | 889.32  | ug/L   | 96       |
| 3) tertiary butyl alcohol     | 2.092          | 59   | 22013      | 42.84   | ug/L   | 94       |
| 4) 1,4-dioxane                | 3.707          | 88   | 9488       | 192.79  | ug/L   | 98       |
| 6) chlorodifluoromethane      | 1.086          | 51   | 21751      | 9.01    | ug/L   | 99       |
| 7) dichlorodifluoromethane    | 1.070          | 85   | 25341      | 7.24    | ug/L   | 97       |
| 8) chloromethane              | 1.164          | 50   | 16736      | 7.38    | ug/L   | 97       |
| 9) vinyl chloride             | 1.206          | 62   | 21576      | 7.66    | ug/L   | 98       |
| 10) 1,3-butadiene             | 1.211          | 39   | 16894      | 10.17   | ug/L   | 94       |
| 11) bromomethane              | 1.358          | 96   | 25782      | 10.08   | ug/L # | 98       |
| 12) chloroethane              | 1.416          | 64   | 16743      | 7.37    | ug/L   | 98       |
| 13) trichlorofluoromethane    | 1.479          | 101  | 53079      | 7.52    | ug/L   | 98       |
| 14) ethyl ether               | 1.610          | 74   | 14187      | 9.26    | ug/L   | 97       |
| 15) acrolein                  | 1.851          | 56   | 4060       | 8.14    | ug/L   | 90       |
| 16) freon 113                 | 1.720          | 151  | 21344      | 9.16    | ug/L   | 94       |
| 17) 1,1-dichloroethene        | 1.709          | 61   | 32873      | 9.73    | ug/L   | 97       |
| 18) acetone                   | 1.972          | 58   | 11448      | 29.70   | ug/L   | 94       |
| 19) acetonitrile              | 2.187          | 41   | 32249      | 99.95   | ug/L   | 98       |
| 20) iodomethane               | 1.783          | 142  | 11426      | 4.85    | ug/L   | 90       |
| 21) carbon disulfide          | 1.736          | 76   | 61267      | 9.66    | ug/L   | 98       |
| 22) methylene chloride        | 1.961          | 84   | 20441      | 9.16    | ug/L   | 96       |
| 23) methyl acetate            | 2.024          | 74   | 4977       | 9.56    | ug/L   | 91       |
| 24) methyl tert butyl ether   | 2.071          | 73   | 57298      | 9.05    | ug/L   | 78       |
| 25) trans-1,2-dichloroethene  | 2.035          | 61   | 30025      | 10.03   | ug/L   | 99       |
| 26) hexane                    | 2.066          | 57   | 43317      | 9.62    | ug/L   | 97       |
| 27) di-isopropyl ether        | 2.234          | 45   | 51275      | 9.05    | ug/L   | 98       |
| 28) ethyl tert-butyl ether    | 2.402          | 59   | 55411      | 9.21    | ug/L   | 98       |
| 29) 2-butanone                | 2.831          | 72   | 15594      | 34.52   | ug/L   | 97       |
| 30) 1,1-dichloroethane        | 2.312          | 63   | 35198      | 8.98    | ug/L   | 98       |
| 31) chloroprene               | 2.302          | 53   | 29308      | 9.20    | ug/L   | 99       |
| 32) acrylonitrile             | 2.328          | 52   | 5257       | 7.15    | ug/L   | 95       |
| 33) vinyl acetate             | 2.412          | 86   | 4272       | 8.61    | ug/L # | 82       |
| 34) ethyl acetate             | 2.727          | 70   | 2823       | 8.98    | ug/L   | 94       |



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VU2015\  
 Data File : 2U49567.D  
 Acq On : 28 Oct 2022 8:21 pm  
 Operator : edwardd  
 Sample : ic2015-8  
 Misc : MS63374,V2U2015,5,,,1  
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 31 14:56:32 2022

Quant Method : C:\MSDCHEM\1\METHODS\M2U2015.M

Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um

QLast Update : Mon Oct 31 14:55:54 2022

Response via : Initial Calibration

| Compound                      | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|--------|--------|----------|
| 35) 2,2-dichloropropane       | 2.622 | 77   | 33825    | 9.33   | ug/L   | 99       |
| 36) cis-1,2-dichloroethene    | 2.564 | 96   | 22008    | 8.76   | ug/L   | 99       |
| 37) propionitrile             | 2.984 | 54   | 42010    | 97.23  | ug/L   | 94       |
| 38) methyl acrylate           | 2.737 | 85   | 4436     | 8.26   | ug/L # | 72       |
| 39) bromochloromethane        | 2.664 | 128  | 11432    | 9.39   | ug/L   | 93       |
| 40) tetrahydrofuran           | 2.769 | 71   | 3498     | 8.44   | ug/L   | 89       |
| 41) chloroform                | 2.685 | 47   | 10857    | 9.65   | ug/L   | 96       |
| 43) methacrylonitrile         | 2.994 | 67   | 11437    | 9.66   | ug/L   | 97       |
| 44) 1,1,1-trichloroethane     | 2.805 | 97   | 37538    | 9.01   | ug/L   | 99       |
| 45) cyclohexane               | 2.674 | 84   | 24918    | 7.55   | ug/L   | 89       |
| 46) 1,1-dichloropropene       | 2.858 | 75   | 30289    | 9.43   | ug/L   | 92       |
| 47) carbon tetrachloride      | 2.774 | 117  | 37660    | 9.40   | ug/L   | 97       |
| 48) isobutyl alcohol          | 3.031 | 43   | 27264    | 87.78  | ug/L   | 83       |
| 49) tert-amyl alcohol         | 3.104 | 55   | 7163     | 46.65  | ug/L   | 97       |
| 52) iso-octane                | 2.910 | 57   | 71232    | 8.94   | ug/L   | 92       |
| 53) benzene                   | 2.989 | 78   | 78816    | 8.72   | ug/L   | 98       |
| 54) tert-amyl methyl ether    | 3.025 | 73   | 57718    | 8.87   | ug/L   | 97       |
| 55) heptane                   | 2.952 | 57   | 12826    | 9.01   | ug/L   | 95       |
| 56) isopropyl acetate         | 3.183 | 87   | 5336     | 8.15   | ug/L   | 98       |
| 57) 1,2-dichloroethane        | 3.083 | 62   | 28594    | 9.17   | ug/L   | 98       |
| 58) n-butyl alcohol           | 3.419 | 56   | 44541    | 423.74 | ug/L   | 96       |
| 59) ethyl acrylate            | 3.555 | 55   | 28986    | 8.62   | ug/L   | 99       |
| 60) trichloroethene           | 3.288 | 130  | 24118    | 8.18   | ug/L   | 97       |
| 61) 2-nitropropane            | 4.247 | 41   | 7586     | 8.44   | ug/L   | 84       |
| 62) 2-chloroethyl vinyl ether | 3.917 | 63   | 61780    | 40.61  | ug/L   | 98       |
| 63) methyl methacrylate       | 3.670 | 100  | 6669     | 8.39   | ug/L   | 95       |
| 64) 1,2-dichloropropane       | 3.576 | 63   | 18612    | 8.79   | ug/L   | 95       |
| 65) methylcyclohexane         | 3.293 | 55   | 26127    | 9.57   | ug/L   | 93       |
| 66) dibromomethane            | 3.518 | 93   | 14993    | 8.62   | ug/L   | 94       |
| 67) bromodichloromethane      | 3.602 | 83   | 29016    | 8.36   | ug/L   | 98       |
| 68) epichlorohydrin           | 4.111 | 57   | 15552    | 44.85  | ug/L   | 93       |
| 69) cis-1,3-dichloropropene   | 3.964 | 75   | 30478    | 8.18   | ug/L   | 91       |
| 70) 4-methyl-2-pentanone      | 4.336 | 58   | 38710    | 33.47  | ug/L   | 94       |
| 71) 3-methyl-1-butanol        | 4.184 | 70   | 17272    | 155.88 | ug/L   | 96       |
| 74) toluene                   | 4.116 | 92   | 49652    | 8.44   | ug/L   | 96       |
| 75) ethyl methacrylate        | 4.452 | 69   | 25479    | 8.26   | ug/L   | 94       |
| 76) trans-1,3-dichloropropene | 4.362 | 75   | 29403    | 8.61   | ug/L   | 96       |
| 77) 1,1,2-trichloroethane     | 4.467 | 83   | 16185    | 8.74   | ug/L   | 95       |
| 78) tetrachloroethene         | 4.362 | 166  | 25137    | 7.66   | ug/L   | 97       |
| 79) 2-hexanone                | 4.882 | 58   | 40369    | 32.40  | ug/L   | 91       |
| 80) 1,3-dichloropropane       | 4.651 | 76   | 29529    | 8.64   | ug/L   | 96       |
| 81) butyl acetate             | 4.813 | 56   | 13422    | 8.61   | ug/L   | 98       |
| 82) dibromochloromethane      | 4.588 | 129  | 23866    | 8.06   | ug/L   | 98       |
| 83) 1,2-dibromoethane         | 4.750 | 107  | 21272    | 7.99   | ug/L   | 98       |
| 84) n-butyl ether             | 5.028 | 57   | 69044    | 8.09   | ug/L   | 98       |
| 85) chlorobenzene             | 5.107 | 112  | 58559    | 8.14   | ug/L   | 95       |
| 86) 1,1,1,2-tetrachloroethane | 5.144 | 131  | 20156    | 7.39   | ug/L   | 92       |
| 87) ethylbenzene              | 5.117 | 91   | 100266   | 8.45   | ug/L   | 96       |
| 88) m,p-xylene                | 5.222 | 106  | 73875    | 15.76  | ug/L   | 91       |
| 89) o-xylene                  | 5.526 | 106  | 34969    | 7.93   | ug/L   | 92       |



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VU2015\  
 Data File : 2U49567.D  
 Acq On : 28 Oct 2022 8:21 pm  
 Operator : edwardd  
 Sample : ic2015-8  
 Misc : MS63374,V2U2015,5,,,1  
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 31 14:56:32 2022

Quant Method : C:\MSDCHEM\1\METHODS\M2U2015.M

Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um

QLast Update : Mon Oct 31 14:55:54 2022

Response via : Initial Calibration

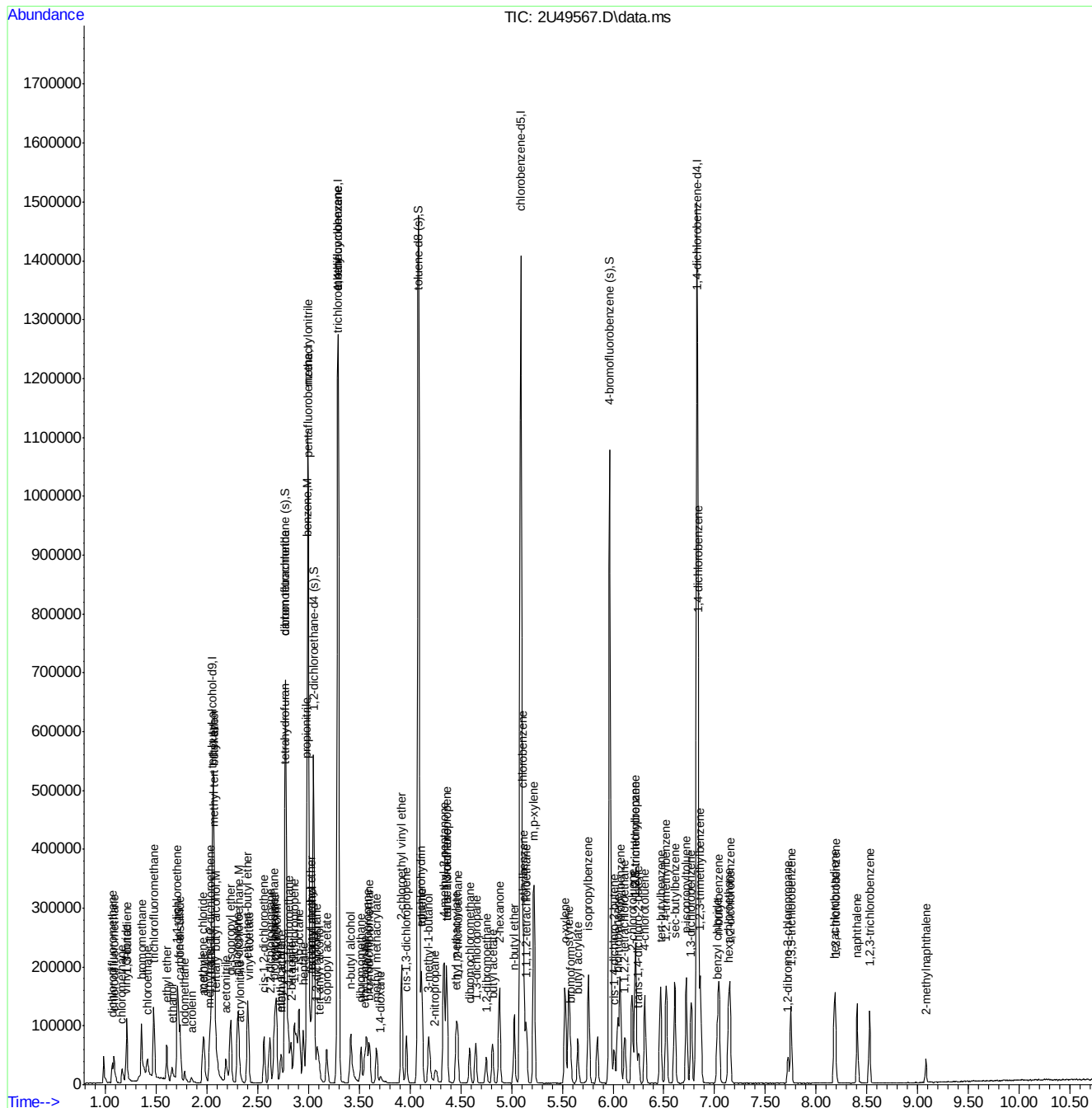
| Compound                       | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|--------------------------------|-------|------|----------|------|-------|----------|
| 90) styrene                    | 5.563 | 104  | 58270    | 7.84 | ug/L  | 97       |
| 91) bromoform                  | 5.584 | 173  | 18449    | 7.10 | ug/L  | 99       |
| 92) butyl acrylate             | 5.652 | 55   | 36201    | 8.23 | ug/L  | 98       |
| 93) isopropylbenzene           | 5.757 | 105  | 96516    | 7.87 | ug/L  | 97       |
| 94) cis-1,4-dichloro-2-butene  | 6.009 | 88   | 11182    | 7.65 | ug/L  | 90       |
| 97) bromobenzene               | 6.045 | 156  | 25751    | 8.64 | ug/L  | 90       |
| 98) 1,1,2,2-tetrachloroethane  | 6.114 | 83   | 29718    | 9.60 | ug/L  | 99       |
| 99) trans-1,4-dichloro-2-b...  | 6.250 | 53   | 7358     | 9.31 | ug/L  | 88       |
| 100) 1,2,3-trichloropropane    | 6.218 | 110  | 9468     | 8.91 | ug/L  | 93       |
| 101) n-propylbenzene           | 6.072 | 91   | 112891   | 8.90 | ug/L  | 95       |
| 102) 2-chlorotoluene           | 6.187 | 126  | 23726    | 8.54 | ug/L  | 98       |
| 103) 4-chlorotoluene           | 6.313 | 91   | 66472    | 9.09 | ug/L  | 94       |
| 104) 1,3,5-trimethylbenzene    | 6.218 | 105  | 75010    | 8.48 | ug/L  | 94       |
| 105) tert-butylbenzene         | 6.470 | 119  | 65591    | 8.19 | ug/L  | 94       |
| 106) 1,2,4-trimethylbenzene    | 6.523 | 105  | 73903    | 8.35 | ug/L  | 95       |
| 107) sec-butylbenzene          | 6.606 | 105  | 98642    | 8.56 | ug/L  | 98       |
| 108) 1,3-dichlorobenzene       | 6.769 | 146  | 45107    | 7.99 | ug/L  | 98       |
| 109) p-isopropyltoluene        | 6.722 | 119  | 80370    | 8.16 | ug/L  | 96       |
| 110) 1,4-dichlorobenzene       | 6.837 | 146  | 46404    | 8.15 | ug/L  | 94       |
| 111) 1,2-dichlorobenzene       | 7.152 | 146  | 42823    | 8.18 | ug/L  | 97       |
| 112) 1,2,3-trimethylbenzene    | 6.858 | 105  | 74629    | 8.56 | ug/L  | 97       |
| 113) n-butylbenzene            | 7.042 | 92   | 42069    | 8.63 | ug/L  | 95       |
| 114) 1,2-dibromo-3-chloropr... | 7.723 | 157  | 8598     | 8.23 | ug/L  | 89       |
| 115) 1,3,5-trichlorobenzene    | 7.755 | 180  | 30279    | 8.39 | ug/L  | 98       |
| 116) 1,2,4-trichlorobenzene    | 8.190 | 180  | 24028    | 8.21 | ug/L  | 97       |
| 117) hexachlorobutadiene       | 8.179 | 225  | 12323    | 8.66 | ug/L  | 92       |
| 118) naphthalene               | 8.405 | 128  | 67570    | 7.92 | ug/L  | 98       |
| 119) 1,2,3-trichlorobenzene    | 8.525 | 180  | 23828    | 8.41 | ug/L  | 99       |
| 120) hexachloroethane          | 7.136 | 119  | 14580    | 7.94 | ug/L  | 89       |
| 121) benzyl chloride           | 7.026 | 126  | 9355     | 7.16 | ug/L  | 94       |
| 122) 2-methylnaphthalene       | 9.081 | 142  | 11622    | 4.18 | ug/L  | 96       |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VU2015\  
Data File : 2U49567.D  
Acq On : 28 Oct 2022 8:21 pm  
Operator : edwardd  
Sample : ic2015-8  
Misc : MS63374,V2U2015,5,,,,,1  
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 31 14:56:32 2022  
Quant Method : C:\MSDCHEM\1\METHODS\M2U2015.M  
Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um  
QLast Update : Mon Oct 31 14:55:54 2022  
Response via : Initial Calibration



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VU2015\  
 Data File : 2U49569.D  
 Acq On : 28 Oct 2022 8:50 pm  
 Operator : edwardd  
 Sample : ic2015-20  
 Misc : MS63374,V2U2015,5,,,1  
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 31 14:56:35 2022

Quant Method : C:\MSDCHEM\1\METHODS\M2U2015.M

Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um

QLast Update : Mon Oct 31 14:55:54 2022

Response via : Initial Calibration

| Compound                      | R.T.           | QIon | Response   | Conc    | Units | Dev(Min) |
|-------------------------------|----------------|------|------------|---------|-------|----------|
| Internal Standards            |                |      |            |         |       |          |
| 1) tert butyl alcohol-d9      | 2.061          | 65   | 395822     | 500.00  | ug/L  | 0.00     |
| 5) pentafluorobenzene         | 2.999          | 168  | 443976     | 50.00   | ug/L  | 0.00     |
| 50) 1,4-difluorobenzene       | 3.293          | 114  | 603564     | 50.00   | ug/L  | 0.00     |
| 72) chlorobenzene-d5          | 5.091          | 117  | 583549     | 50.00   | ug/L  | 0.00     |
| 95) 1,4-dichlorobenzene-d4    | 6.827          | 152  | 289941     | 50.00   | ug/L  | 0.00     |
| System Monitoring Compounds   |                |      |            |         |       |          |
| 42) dibromofluoromethane (s)  | 2.779          | 113  | 219243     | 53.74   | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 75 - 127 |      | Recovery = | 107.48% |       |          |
| 51) 1,2-dichloroethane-d4 (s) | 3.052          | 65   | 241916     | 52.08   | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 75 - 130 |      | Recovery = | 104.16% |       |          |
| 73) toluene-d8 (s)            | 4.085          | 98   | 719648     | 52.19   | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 80 - 120 |      | Recovery = | 104.38% |       |          |
| 96) 4-bromofluorobenzene (s)  | 5.967          | 95   | 264609     | 55.27   | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 79 - 127 |      | Recovery = | 110.54% |       |          |
| Target Compounds              |                |      |            |         |       |          |
| 2) ethanol                    | 1.657          | 45   | 69208      | 2083.55 | ug/L  | 93       |
| 3) tertiary butyl alcohol     | 2.092          | 59   | 49873      | 96.65   | ug/L  | 87       |
| 4) 1,4-dioxane                | 3.707          | 88   | 22892      | 463.22  | ug/L  | 93       |
| 6) chlorodifluoromethane      | 1.086          | 51   | 54148      | 21.33   | ug/L  | 96       |
| 7) dichlorodifluoromethane    | 1.070          | 85   | 75590      | 20.52   | ug/L  | 99       |
| 8) chloromethane              | 1.169          | 50   | 50768      | 21.29   | ug/L  | 98       |
| 9) vinyl chloride             | 1.206          | 62   | 63719      | 21.52   | ug/L  | 99       |
| 10) 1,3-butadiene             | 1.211          | 39   | 38371      | 21.95   | ug/L  | 95       |
| 11) bromomethane              | 1.358          | 96   | 65192      | 24.23   | ug/L  | # 98     |
| 12) chloroethane              | 1.416          | 64   | 50619      | 21.20   | ug/L  | 97       |
| 13) trichlorofluoromethane    | 1.479          | 101  | 157806     | 21.26   | ug/L  | 99       |
| 14) ethyl ether               | 1.610          | 74   | 34514      | 21.42   | ug/L  | 99       |
| 15) acrolein                  | 1.851          | 56   | 10173      | 19.39   | ug/L  | 98       |
| 16) freon 113                 | 1.720          | 151  | 50319      | 20.52   | ug/L  | 97       |
| 17) 1,1-dichloroethene        | 1.710          | 61   | 75588      | 21.27   | ug/L  | 98       |
| 18) acetone                   | 1.977          | 58   | 24740      | 61.03   | ug/L  | 97       |
| 19) acetonitrile              | 2.192          | 41   | 73591      | 216.83  | ug/L  | 92       |
| 20) iodomethane               | 1.783          | 142  | 37823      | 15.27   | ug/L  | 96       |
| 21) carbon disulfide          | 1.741          | 76   | 143631     | 21.54   | ug/L  | 100      |
| 22) methylene chloride        | 1.961          | 84   | 49434      | 21.05   | ug/L  | 97       |
| 23) methyl acetate            | 2.024          | 74   | 11725      | 21.41   | ug/L  | # 83     |
| 24) methyl tert butyl ether   | 2.071          | 73   | 138392     | 20.77   | ug/L  | 70       |
| 25) trans-1,2-dichloroethene  | 2.035          | 61   | 68709      | 21.83   | ug/L  | 96       |
| 26) hexane                    | 2.066          | 57   | 102610     | 21.66   | ug/L  | 96       |
| 27) di-isopropyl ether        | 2.234          | 45   | 126095     | 21.15   | ug/L  | 98       |
| 28) ethyl tert-butyl ether    | 2.402          | 59   | 131517     | 20.77   | ug/L  | 97       |
| 29) 2-butanone                | 2.832          | 72   | 36475      | 76.77   | ug/L  | 90       |
| 30) 1,1-dichloroethane        | 2.312          | 63   | 87123      | 21.13   | ug/L  | 98       |
| 31) chloroprene               | 2.302          | 53   | 69759      | 20.82   | ug/L  | 99       |
| 32) acrylonitrile             | 2.333          | 52   | 14682      | 18.99   | ug/L  | 96       |
| 33) vinyl acetate             | 2.412          | 86   | 11492      | 22.02   | ug/L  | 95       |
| 34) ethyl acetate             | 2.727          | 70   | 6976       | 21.09   | ug/L  | 94       |

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VU2015\  
 Data File : 2U49569.D  
 Acq On : 28 Oct 2022 8:50 pm  
 Operator : edwardd  
 Sample : ic2015-20  
 Misc : MS63374,V2U2015,5,,,1  
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 31 14:56:35 2022

Quant Method : C:\MSDCHEM\1\METHODS\M2U2015.M

Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um

QLast Update : Mon Oct 31 14:55:54 2022

Response via : Initial Calibration

| Compound                      | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|--------|--------|----------|
| 35) 2,2-dichloropropane       | 2.622 | 77   | 78878    | 20.70  | ug/L   | 99       |
| 36) cis-1,2-dichloroethene    | 2.564 | 96   | 54546    | 20.65  | ug/L   | 97       |
| 37) propionitrile             | 2.984 | 54   | 95153    | 209.36 | ug/L   | 95       |
| 38) methyl acrylate           | 2.737 | 85   | 11018    | 19.51  | ug/L # | 78       |
| 39) bromochloromethane        | 2.664 | 128  | 26995    | 21.07  | ug/L   | 95       |
| 40) tetrahydrofuran           | 2.774 | 71   | 8825     | 20.25  | ug/L   | 94       |
| 41) chloroform                | 2.685 | 47   | 25814    | 21.80  | ug/L   | 98       |
| 43) methacrylonitrile         | 2.999 | 67   | 26375    | 21.17  | ug/L   | 95       |
| 44) 1,1,1-trichloroethane     | 2.805 | 97   | 91819    | 20.95  | ug/L   | 99       |
| 45) cyclohexane               | 2.679 | 84   | 75145    | 21.64  | ug/L   | 99       |
| 46) 1,1-dichloropropene       | 2.863 | 75   | 71125    | 21.06  | ug/L   | 97       |
| 47) carbon tetrachloride      | 2.774 | 117  | 88260    | 20.95  | ug/L   | 96       |
| 48) isobutyl alcohol          | 3.031 | 43   | 66904    | 204.79 | ug/L   | 90       |
| 49) tert-amyl alcohol         | 3.104 | 55   | 16664    | 103.18 | ug/L # | 84       |
| 52) iso-octane                | 2.910 | 57   | 176512   | 21.43  | ug/L   | 97       |
| 53) benzene                   | 2.989 | 78   | 189343   | 20.26  | ug/L   | 99       |
| 54) tert-amyl methyl ether    | 3.026 | 73   | 137510   | 20.43  | ug/L   | 99       |
| 55) heptane                   | 2.952 | 57   | 30680    | 20.84  | ug/L   | 99       |
| 56) isopropyl acetate         | 3.183 | 87   | 13414    | 19.83  | ug/L # | 89       |
| 57) 1,2-dichloroethane        | 3.088 | 62   | 65694    | 20.38  | ug/L   | 98       |
| 58) n-butyl alcohol           | 3.419 | 56   | 106946   | 984.12 | ug/L   | 98       |
| 59) ethyl acrylate            | 3.555 | 55   | 68957    | 19.84  | ug/L   | 98       |
| 60) trichloroethene           | 3.288 | 130  | 58641    | 19.24  | ug/L   | 99       |
| 61) 2-nitropropane            | 4.247 | 41   | 18334    | 19.73  | ug/L   | 94       |
| 62) 2-chloroethyl vinyl ether | 3.917 | 63   | 154205   | 98.04  | ug/L   | 98       |
| 63) methyl methacrylate       | 3.670 | 100  | 14986    | 18.24  | ug/L   | 89       |
| 64) 1,2-dichloropropane       | 3.576 | 63   | 45368    | 20.73  | ug/L   | 95       |
| 65) methylcyclohexane         | 3.293 | 55   | 59630    | 21.13  | ug/L   | 99       |
| 66) dibromomethane            | 3.518 | 93   | 36335    | 20.21  | ug/L   | 96       |
| 67) bromodichloromethane      | 3.602 | 83   | 72582    | 20.22  | ug/L   | 98       |
| 68) epichlorohydrin           | 4.111 | 57   | 36158    | 100.86 | ug/L   | 96       |
| 69) cis-1,3-dichloropropene   | 3.964 | 75   | 76173    | 19.78  | ug/L   | 98       |
| 70) 4-methyl-2-pentanone      | 4.336 | 58   | 92331    | 77.23  | ug/L   | 98       |
| 71) 3-methyl-1-butanol        | 4.189 | 70   | 43754    | 381.95 | ug/L   | 97       |
| 74) toluene                   | 4.116 | 92   | 124968   | 20.57  | ug/L   | 97       |
| 75) ethyl methacrylate        | 4.452 | 69   | 64318    | 20.20  | ug/L   | 94       |
| 76) trans-1,3-dichloropropene | 4.362 | 75   | 71698    | 20.33  | ug/L   | 99       |
| 77) 1,1,2-trichloroethane     | 4.467 | 83   | 37440    | 19.59  | ug/L   | 98       |
| 78) tetrachloroethene         | 4.362 | 166  | 62518    | 18.45  | ug/L   | 98       |
| 79) 2-hexanone                | 4.882 | 58   | 100851   | 78.39  | ug/L   | 98       |
| 80) 1,3-dichloropropane       | 4.651 | 76   | 72705    | 20.61  | ug/L   | 99       |
| 81) butyl acetate             | 4.813 | 56   | 32398    | 20.14  | ug/L   | 99       |
| 82) dibromochloromethane      | 4.588 | 129  | 58686    | 19.21  | ug/L   | 99       |
| 83) 1,2-dibromoethane         | 4.750 | 107  | 54291    | 19.74  | ug/L   | 98       |
| 84) n-butyl ether             | 5.028 | 57   | 176342   | 20.02  | ug/L   | 100      |
| 85) chlorobenzene             | 5.102 | 112  | 144460   | 19.45  | ug/L   | 95       |
| 86) 1,1,1,2-tetrachloroethane | 5.144 | 131  | 51635    | 18.34  | ug/L   | 92       |
| 87) ethylbenzene              | 5.117 | 91   | 247410   | 20.20  | ug/L   | 96       |
| 88) m,p-xylene                | 5.222 | 106  | 186956   | 38.63  | ug/L   | 95       |
| 89) o-xylene                  | 5.526 | 106  | 86540    | 19.01  | ug/L   | 89       |

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VU2015\  
 Data File : 2U49569.D  
 Acq On : 28 Oct 2022 8:50 pm  
 Operator : edwardd  
 Sample : ic2015-20  
 Misc : MS63374,V2U2015,5,,,1  
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 31 14:56:35 2022

Quant Method : C:\MSDCHEM\1\METHODS\M2U2015.M

Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um

QLast Update : Mon Oct 31 14:55:54 2022

Response via : Initial Calibration

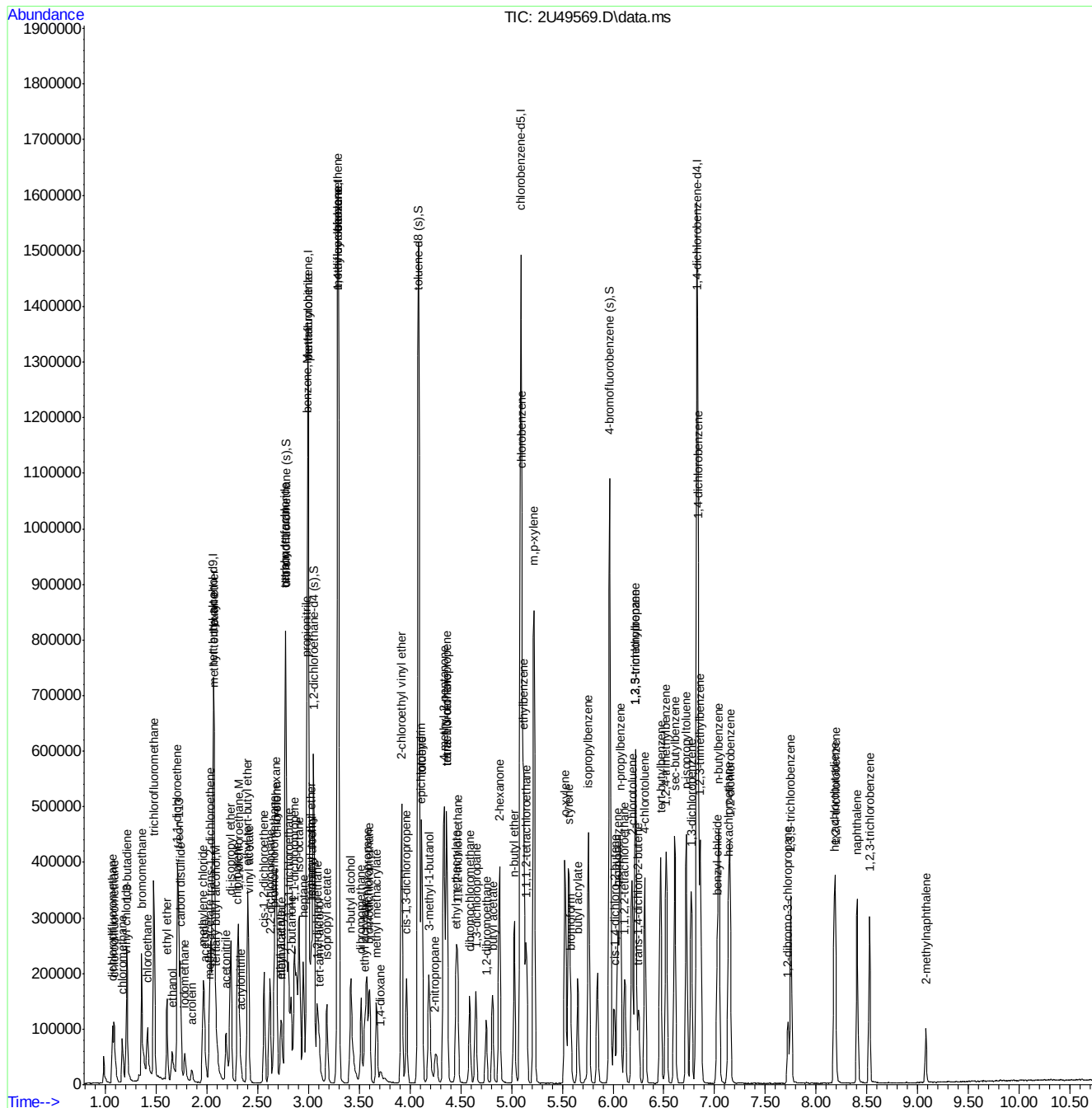
| Compound                       | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-------|-------|----------|
| 90) styrene                    | 5.563 | 104  | 144425   | 18.81 | ug/L  | 99       |
| 91) bromoform                  | 5.584 | 173  | 47490    | 17.70 | ug/L  | 98       |
| 92) butyl acrylate             | 5.652 | 55   | 90301    | 19.88 | ug/L  | 97       |
| 93) isopropylbenzene           | 5.757 | 105  | 241780   | 19.09 | ug/L  | 98       |
| 94) cis-1,4-dichloro-2-butene  | 6.014 | 88   | 28635    | 18.98 | ug/L  | 93       |
| 97) bromobenzene               | 6.045 | 156  | 62459    | 20.27 | ug/L  | 94       |
| 98) 1,1,2,2-tetrachloroethane  | 6.114 | 83   | 71599    | 22.38 | ug/L  | 96       |
| 99) trans-1,4-dichloro-2-b...  | 6.250 | 53   | 18561    | 22.71 | ug/L  | 97       |
| 100) 1,2,3-trichloropropane    | 6.219 | 110  | 23168    | 21.10 | ug/L  | 95       |
| 101) n-propylbenzene           | 6.072 | 91   | 283236   | 21.61 | ug/L  | 98       |
| 102) 2-chlorotoluene           | 6.187 | 126  | 59315    | 20.66 | ug/L  | 93       |
| 103) 4-chlorotoluene           | 6.313 | 91   | 165304   | 21.87 | ug/L  | 95       |
| 104) 1,3,5-trimethylbenzene    | 6.219 | 105  | 191696   | 20.97 | ug/L  | 95       |
| 105) tert-butylbenzene         | 6.470 | 119  | 170590   | 20.60 | ug/L  | 95       |
| 106) 1,2,4-trimethylbenzene    | 6.523 | 105  | 187113   | 20.46 | ug/L  | 97       |
| 107) sec-butylbenzene          | 6.606 | 105  | 251839   | 21.14 | ug/L  | 97       |
| 108) 1,3-dichlorobenzene       | 6.769 | 146  | 115268   | 19.74 | ug/L  | 98       |
| 109) p-isopropyltoluene        | 6.722 | 119  | 206737   | 20.30 | ug/L  | 96       |
| 110) 1,4-dichlorobenzene       | 6.837 | 146  | 114825   | 19.51 | ug/L  | 97       |
| 111) 1,2-dichlorobenzene       | 7.152 | 146  | 107454   | 19.86 | ug/L  | 98       |
| 112) 1,2,3-trimethylbenzene    | 6.858 | 105  | 186095   | 20.65 | ug/L  | 97       |
| 113) n-butylbenzene            | 7.042 | 92   | 107792   | 21.39 | ug/L  | 97       |
| 114) 1,2-dibromo-3-chloropr... | 7.723 | 157  | 22090    | 20.45 | ug/L  | 94       |
| 115) 1,3,5-trichlorobenzene    | 7.749 | 180  | 75858    | 20.33 | ug/L  | 99       |
| 116) 1,2,4-trichlorobenzene    | 8.190 | 180  | 63846    | 21.11 | ug/L  | 99       |
| 117) hexachlorobutadiene       | 8.179 | 225  | 31774    | 21.60 | ug/L  | 95       |
| 118) naphthalene               | 8.405 | 128  | 175156   | 19.86 | ug/L  | 100      |
| 119) 1,2,3-trichlorobenzene    | 8.525 | 180  | 61785    | 21.10 | ug/L  | 97       |
| 120) hexachloroethane          | 7.136 | 119  | 38265    | 20.15 | ug/L  | 95       |
| 121) benzyl chloride           | 7.026 | 126  | 25573    | 18.93 | ug/L  | 96       |
| 122) 2-methylnaphthalene       | 9.081 | 142  | 28449    | 9.89  | ug/L  | 97       |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VU2015\  
 Data File : 2U49569.D  
 Acq On : 28 Oct 2022 8:50 pm  
 Operator : edwardd  
 Sample : ic2015-20  
 Misc : MS63374,V2U2015,5,,,,,1  
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 31 14:56:35 2022  
 Quant Method : C:\MSDCHEM\1\METHODS\M2U2015.M  
 Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um  
 QLast Update : Mon Oct 31 14:55:54 2022  
 Response via : Initial Calibration





## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VU2015\  
 Data File : 2U49571.D  
 Acq On : 28 Oct 2022 9:19 pm  
 Operator : edwardd  
 Sample : icc2015-50  
 Misc : MS63374,V2U2015,5,,,1  
 ALS Vial : 17 Sample Multiplier: 1

Quant Time: Oct 31 14:56:38 2022

Quant Method : C:\MSDCHEM\1\METHODS\M2U2015.M

Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um

QLast Update : Mon Oct 31 14:55:54 2022

Response via : Initial Calibration

| Compound                      | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|---------|--------|----------|
| Internal Standards            |                |      |            |         |        |          |
| 1) tert butyl alcohol-d9      | 2.061          | 65   | 390970     | 500.00  | ug/L   | 0.00     |
| 5) pentafluorobenzene         | 2.999          | 168  | 479899     | 50.00   | ug/L   | 0.00     |
| 50) 1,4-difluorobenzene       | 3.293          | 114  | 631983     | 50.00   | ug/L   | 0.00     |
| 72) chlorobenzene-d5          | 5.091          | 117  | 632884     | 50.00   | ug/L   | 0.00     |
| 95) 1,4-dichlorobenzene-d4    | 6.827          | 152  | 344703     | 50.00   | ug/L   | 0.00     |
| System Monitoring Compounds   |                |      |            |         |        |          |
| 42) dibromofluoromethane (s)  | 2.779          | 113  | 220496     | 50.00   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 127 |      | Recovery = | 100.00% |        |          |
| 51) 1,2-dichloroethane-d4 (s) | 3.052          | 65   | 243168     | 50.00   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 130 |      | Recovery = | 100.00% |        |          |
| 73) toluene-d8 (s)            | 4.085          | 98   | 747667     | 50.00   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 80 - 120 |      | Recovery = | 100.00% |        |          |
| 96) 4-bromofluorobenzene (s)  | 5.967          | 95   | 284582     | 50.00   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 79 - 127 |      | Recovery = | 100.00% |        |          |
| Target Compounds              |                |      |            |         |        |          |
|                               |                |      |            |         | Qvalue |          |
| 2) ethanol                    | 1.662          | 45   | 172850     | 5268.34 | ug/L   | 100      |
| 3) tertiary butyl alcohol     | 2.097          | 59   | 128933     | 252.96  | ug/L   | 100      |
| 4) 1,4-dioxane                | 3.712          | 88   | 61017      | 1250.00 | ug/L   | 100      |
| 6) chlorodifluoromethane      | 1.091          | 51   | 137202     | 50.00   | ug/L   | 100      |
| 7) dichlorodifluoromethane    | 1.070          | 85   | 199078     | 50.00   | ug/L   | 100      |
| 8) chloromethane              | 1.169          | 50   | 128860     | 50.00   | ug/L   | 100      |
| 9) vinyl chloride             | 1.206          | 62   | 160135     | 50.02   | ug/L   | 100      |
| 10) 1,3-butadiene             | 1.217          | 39   | 94435      | 49.98   | ug/L   | 100      |
| 11) bromomethane              | 1.358          | 96   | 145422     | 50.00   | ug/L   | # 100    |
| 12) chloroethane              | 1.416          | 64   | 129067     | 50.00   | ug/L   | 100      |
| 13) trichlorofluoromethane    | 1.479          | 101  | 401173     | 50.00   | ug/L   | 100      |
| 14) ethyl ether               | 1.610          | 74   | 87066      | 50.00   | ug/L   | 100      |
| 15) acrolein                  | 1.851          | 56   | 28362      | 50.00   | ug/L   | 100      |
| 16) freon 113                 | 1.720          | 151  | 132529     | 50.00   | ug/L   | 100      |
| 17) 1,1-dichloroethene        | 1.709          | 61   | 192106     | 50.00   | ug/L   | 100      |
| 18) acetone                   | 1.977          | 58   | 87637      | 200.00  | ug/L   | 100      |
| 19) acetonitrile              | 2.192          | 41   | 183432     | 500.00  | ug/L   | 100      |
| 20) iodomethane               | 1.788          | 142  | 133845     | 50.00   | ug/L   | 100      |
| 21) carbon disulfide          | 1.741          | 76   | 360387     | 50.00   | ug/L   | 100      |
| 22) methylene chloride        | 1.966          | 84   | 126923     | 50.00   | ug/L   | 100      |
| 23) methyl acetate            | 2.024          | 74   | 29591      | 50.00   | ug/L   | 100      |
| 24) methyl tert butyl ether   | 2.076          | 73   | 360078     | 50.00   | ug/L   | 100      |
| 25) trans-1,2-dichloroethene  | 2.035          | 61   | 170101     | 50.00   | ug/L   | 100      |
| 26) hexane                    | 2.066          | 57   | 256067     | 50.00   | ug/L   | 100      |
| 27) di-isopropyl ether        | 2.234          | 45   | 322194     | 50.00   | ug/L   | 100      |
| 28) ethyl tert-butyl ether    | 2.407          | 59   | 342203     | 50.00   | ug/L   | 100      |
| 29) 2-butanone                | 2.831          | 72   | 102714     | 200.00  | ug/L   | 100      |
| 30) 1,1-dichloroethane        | 2.318          | 63   | 222792     | 50.00   | ug/L   | 100      |
| 31) chloroprene               | 2.302          | 53   | 181081     | 50.00   | ug/L   | 100      |
| 32) acrylonitrile             | 2.333          | 52   | 41796      | 50.00   | ug/L   | 100      |
| 33) vinyl acetate             | 2.412          | 86   | 28208      | 50.00   | ug/L   | 100      |
| 34) ethyl acetate             | 2.727          | 70   | 17879      | 50.00   | ug/L   | 100      |

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VU2015\  
 Data File : 2U49571.D  
 Acq On : 28 Oct 2022 9:19 pm  
 Operator : edwardd  
 Sample : icc2015-50  
 Misc : MS63374,V2U2015,5,,,1  
 ALS Vial : 17 Sample Multiplier: 1

Quant Time: Oct 31 14:56:38 2022

Quant Method : C:\MSDCHEM\1\METHODS\M2U2015.M

Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um

QLast Update : Mon Oct 31 14:55:54 2022

Response via : Initial Calibration

| Compound                      | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|-------|------|----------|---------|-------|----------|
| 35) 2,2-dichloropropane       | 2.622 | 77   | 205990   | 50.00   | ug/L  | 100      |
| 36) cis-1,2-dichloroethene    | 2.564 | 96   | 142756   | 50.00   | ug/L  | 100      |
| 37) propionitrile             | 2.989 | 54   | 245636   | 500.00  | ug/L  | 100      |
| 38) methyl acrylate           | 2.742 | 85   | 30526    | 50.00   | ug/L  | 100      |
| 39) bromochloromethane        | 2.664 | 128  | 69235    | 50.00   | ug/L  | 100      |
| 40) tetrahydrofuran           | 2.774 | 71   | 23558    | 50.00   | ug/L  | 100      |
| 41) chloroform                | 2.685 | 47   | 63983    | 50.00   | ug/L  | 100      |
| 43) methacrylonitrile         | 2.999 | 67   | 67337    | 50.00   | ug/L  | 100      |
| 44) 1,1,1-trichloroethane     | 2.805 | 97   | 236892   | 50.00   | ug/L  | 100      |
| 45) cyclohexane               | 2.679 | 84   | 187643   | 50.00   | ug/L  | 100      |
| 46) 1,1-dichloropropene       | 2.863 | 75   | 182539   | 50.00   | ug/L  | 100      |
| 47) carbon tetrachloride      | 2.774 | 117  | 227667   | 50.00   | ug/L  | 100      |
| 48) isobutyl alcohol          | 3.025 | 43   | 176565   | 500.00  | ug/L  | 100      |
| 49) tert-amyl alcohol         | 3.109 | 55   | 43643    | 250.00  | ug/L  | 100      |
| 52) iso-octane                | 2.910 | 57   | 431131   | 50.00   | ug/L  | 100      |
| 53) benzene                   | 2.989 | 78   | 489259   | 50.00   | ug/L  | 100      |
| 54) tert-amyl methyl ether    | 3.025 | 73   | 352388   | 50.00   | ug/L  | 100      |
| 55) heptane                   | 2.952 | 57   | 77130    | 50.02   | ug/L  | 100      |
| 56) isopropyl acetate         | 3.183 | 87   | 35418    | 50.00   | ug/L  | 100      |
| 57) 1,2-dichloroethane        | 3.088 | 62   | 168740   | 50.00   | ug/L  | 100      |
| 58) n-butyl alcohol           | 3.419 | 56   | 284471   | 2500.00 | ug/L  | 100      |
| 59) ethyl acrylate            | 3.555 | 55   | 182896   | 50.26   | ug/L  | 100      |
| 60) trichloroethene           | 3.288 | 130  | 159550   | 50.00   | ug/L  | 100      |
| 61) 2-nitropropane            | 4.247 | 41   | 48656    | 50.00   | ug/L  | 100      |
| 62) 2-chloroethyl vinyl ether | 3.917 | 63   | 411716   | 250.00  | ug/L  | 100      |
| 63) methyl methacrylate       | 3.670 | 100  | 43019    | 50.00   | ug/L  | 100      |
| 64) 1,2-dichloropropane       | 3.576 | 63   | 114559   | 50.00   | ug/L  | 100      |
| 65) methylcyclohexane         | 3.293 | 55   | 147736   | 50.00   | ug/L  | 100      |
| 66) dibromomethane            | 3.518 | 93   | 94133    | 50.00   | ug/L  | 100      |
| 67) bromodichloromethane      | 3.602 | 83   | 187891   | 50.00   | ug/L  | 100      |
| 68) epichlorohydrin           | 4.111 | 57   | 93845    | 250.00  | ug/L  | 100      |
| 69) cis-1,3-dichloropropene   | 3.969 | 75   | 201590   | 50.00   | ug/L  | 100      |
| 70) 4-methyl-2-pentanone      | 4.336 | 58   | 250380   | 200.00  | ug/L  | 100      |
| 71) 3-methyl-1-butanol        | 4.189 | 70   | 119947   | 1000.00 | ug/L  | 100      |
| 74) toluene                   | 4.116 | 92   | 329519   | 50.00   | ug/L  | 100      |
| 75) ethyl methacrylate        | 4.457 | 69   | 172699   | 50.00   | ug/L  | 100      |
| 76) trans-1,3-dichloropropene | 4.362 | 75   | 191227   | 50.00   | ug/L  | 100      |
| 77) 1,1,2-trichloroethane     | 4.467 | 83   | 103649   | 50.00   | ug/L  | 100      |
| 78) tetrachloroethene         | 4.362 | 166  | 183772   | 50.00   | ug/L  | 100      |
| 79) 2-hexanone                | 4.882 | 58   | 279068   | 200.00  | ug/L  | 100      |
| 80) 1,3-dichloropropane       | 4.651 | 76   | 191253   | 50.00   | ug/L  | 100      |
| 81) butyl acetate             | 4.813 | 56   | 87246    | 50.00   | ug/L  | 100      |
| 82) dibromochloromethane      | 4.588 | 129  | 165695   | 50.00   | ug/L  | 100      |
| 83) 1,2-dibromoethane         | 4.750 | 107  | 149112   | 50.00   | ug/L  | 100      |
| 84) n-butyl ether             | 5.028 | 57   | 477670   | 50.00   | ug/L  | 100      |
| 85) chlorobenzene             | 5.102 | 112  | 402656   | 50.00   | ug/L  | 100      |
| 86) 1,1,1,2-tetrachloroethane | 5.144 | 131  | 152668   | 50.00   | ug/L  | 100      |
| 87) ethylbenzene              | 5.123 | 91   | 664229   | 50.00   | ug/L  | 100      |
| 88) m,p-xylene                | 5.222 | 106  | 524884   | 100.00  | ug/L  | 100      |
| 89) o-xylene                  | 5.526 | 106  | 246817   | 50.00   | ug/L  | 100      |



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VU2015\  
 Data File : 2U49571.D  
 Acq On : 28 Oct 2022 9:19 pm  
 Operator : edwardd  
 Sample : icc2015-50  
 Misc : MS63374,V2U2015,5,,,1  
 ALS Vial : 17 Sample Multiplier: 1

Quant Time: Oct 31 14:56:38 2022

Quant Method : C:\MSDCHEM\1\METHODS\M2U2015.M

Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um

QLast Update : Mon Oct 31 14:55:54 2022

Response via : Initial Calibration

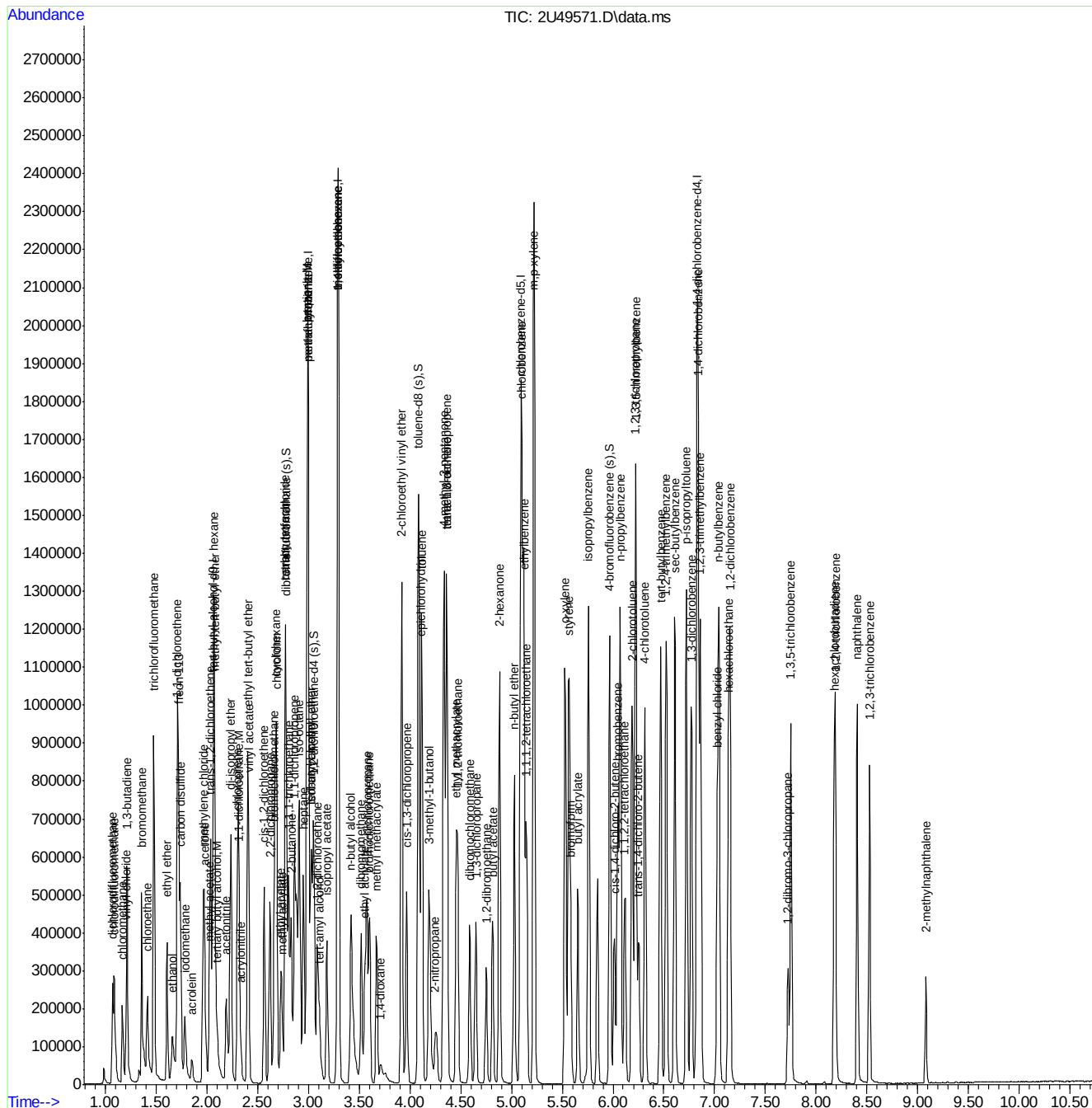
| Compound                       | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-------|-------|----------|
| 90) styrene                    | 5.563 | 104  | 416353   | 50.00 | ug/L  | 100      |
| 91) bromoform                  | 5.584 | 173  | 145511   | 50.00 | ug/L  | 100      |
| 92) butyl acrylate             | 5.652 | 55   | 246377   | 50.00 | ug/L  | 100      |
| 93) isopropylbenzene           | 5.757 | 105  | 686721   | 50.00 | ug/L  | 100      |
| 94) cis-1,4-dichloro-2-butene  | 6.014 | 88   | 81818    | 50.00 | ug/L  | 100      |
| 97) bromobenzene               | 6.045 | 156  | 183169   | 50.00 | ug/L  | 100      |
| 98) 1,1,2,2-tetrachloroethane  | 6.114 | 83   | 190158   | 50.00 | ug/L  | 100      |
| 99) trans-1,4-dichloro-2-b...  | 6.250 | 53   | 48574    | 50.00 | ug/L  | 100      |
| 100) 1,2,3-trichloropropane    | 6.218 | 110  | 65283    | 50.00 | ug/L  | 100      |
| 101) n-propylbenzene           | 6.072 | 91   | 779138   | 50.00 | ug/L  | 100      |
| 102) 2-chlorotoluene           | 6.187 | 126  | 170695   | 50.00 | ug/L  | 100      |
| 103) 4-chlorotoluene           | 6.313 | 91   | 449361   | 50.00 | ug/L  | 100      |
| 104) 1,3,5-trimethylbenzene    | 6.224 | 105  | 543515   | 50.00 | ug/L  | 100      |
| 105) tert-butylbenzene         | 6.470 | 119  | 492273   | 50.00 | ug/L  | 100      |
| 106) 1,2,4-trimethylbenzene    | 6.523 | 105  | 543622   | 50.00 | ug/L  | 100      |
| 107) sec-butylbenzene          | 6.606 | 105  | 707846   | 49.98 | ug/L  | 100      |
| 108) 1,3-dichlorobenzene       | 6.769 | 146  | 347035   | 50.00 | ug/L  | 100      |
| 109) p-isopropyltoluene        | 6.722 | 119  | 605423   | 50.00 | ug/L  | 100      |
| 110) 1,4-dichlorobenzene       | 6.837 | 146  | 349914   | 50.00 | ug/L  | 100      |
| 111) 1,2-dichlorobenzene       | 7.152 | 146  | 321625   | 50.00 | ug/L  | 100      |
| 112) 1,2,3-trimethylbenzene    | 6.858 | 105  | 535742   | 50.00 | ug/L  | 100      |
| 113) n-butylbenzene            | 7.042 | 92   | 299532   | 50.00 | ug/L  | 100      |
| 114) 1,2-dibromo-3-chloropr... | 7.723 | 157  | 64197    | 50.00 | ug/L  | 100      |
| 115) 1,3,5-trichlorobenzene    | 7.749 | 180  | 221805   | 50.00 | ug/L  | 100      |
| 116) 1,2,4-trichlorobenzene    | 8.190 | 180  | 179751   | 50.00 | ug/L  | 100      |
| 117) hexachlorobutadiene       | 8.179 | 225  | 87447    | 50.00 | ug/L  | 100      |
| 118) naphthalene               | 8.405 | 128  | 524328   | 50.00 | ug/L  | 100      |
| 119) 1,2,3-trichlorobenzene    | 8.525 | 180  | 174071   | 50.00 | ug/L  | 100      |
| 120) hexachloroethane          | 7.136 | 119  | 112886   | 50.00 | ug/L  | 100      |
| 121) benzyl chloride           | 7.026 | 126  | 80303    | 50.00 | ug/L  | 100      |
| 122) 2-methylnaphthalene       | 9.081 | 142  | 85509    | 25.00 | ug/L  | 100      |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VU2015\  
Data File : 2U49571.D  
Acq On : 28 Oct 2022 9:19 pm  
Operator : edwardd  
Sample : icc2015-50  
Misc : MS63374,V2U2015,5,,,,,1  
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Oct 31 14:56:38 2022  
Quant Method : C:\MSDCHEM\1\METHODS\M2U2015.M  
Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um  
QLast Update : Mon Oct 31 14:55:54 2022  
Response via : Initial Calibration



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VU2015\  
 Data File : 2U49573.D  
 Acq On : 28 Oct 2022 9:48 pm  
 Operator : edwardd  
 Sample : ic2015-100  
 Misc : MS63374,V2U2015,5,,,1  
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Oct 31 14:56:41 2022

Quant Method : C:\MSDCHEM\1\METHODS\M2U2015.M

Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um

QLast Update : Mon Oct 31 14:55:54 2022

Response via : Initial Calibration

| Compound                      | R.T.           | QIon | Response   | Conc    | Units | Dev(Min) |
|-------------------------------|----------------|------|------------|---------|-------|----------|
| Internal Standards            |                |      |            |         |       |          |
| 1) tert butyl alcohol-d9      | 2.066          | 65   | 384350     | 500.00  | ug/L  | 0.00     |
| 5) pentafluorobenzene         | 2.999          | 168  | 540385     | 50.00   | ug/L  | 0.00     |
| 50) 1,4-difluorobenzene       | 3.293          | 114  | 670353     | 50.00   | ug/L  | 0.00     |
| 72) chlorobenzene-d5          | 5.091          | 117  | 666784     | 50.00   | ug/L  | 0.00     |
| 95) 1,4-dichlorobenzene-d4    | 6.827          | 152  | 346008     | 50.00   | ug/L  | 0.00     |
| System Monitoring Compounds   |                |      |            |         |       |          |
| 42) dibromofluoromethane (s)  | 2.779          | 113  | 231246     | 46.57   | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 75 - 127 |      | Recovery = | 93.14%  |       |          |
| 51) 1,2-dichloroethane-d4 (s) | 3.052          | 65   | 238559     | 46.24   | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 75 - 130 |      | Recovery = | 92.48%  |       |          |
| 73) toluene-d8 (s)            | 4.085          | 98   | 777611     | 49.36   | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 80 - 120 |      | Recovery = | 98.72%  |       |          |
| 96) 4-bromofluorobenzene (s)  | 5.967          | 95   | 284304     | 49.76   | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 79 - 127 |      | Recovery = | 99.52%  |       |          |
| Target Compounds              |                |      |            |         |       |          |
|                               |                |      |            |         |       | Qvalue   |
| 2) ethanol                    | 1.662          | 45   | 296720     | 9199.57 | ug/L  | 97       |
| 3) tertiary butyl alcohol     | 2.098          | 59   | 236939     | 472.87  | ug/L  | 93       |
| 4) 1,4-dioxane                | 3.718          | 88   | 119351     | 2487.15 | ug/L  | 87       |
| 6) chlorodifluoromethane      | 1.091          | 51   | 295138     | 95.52   | ug/L  | 96       |
| 7) dichlorodifluoromethane    | 1.075          | 85   | 460258     | 102.66  | ug/L  | 99       |
| 8) chloromethane              | 1.170          | 50   | 289745     | 99.84   | ug/L  | 98       |
| 9) vinyl chloride             | 1.212          | 62   | 347227     | 96.33   | ug/L  | 100      |
| 10) 1,3-butadiene             | 1.217          | 39   | 190960     | 89.75   | ug/L  | 97       |
| 11) bromomethane              | 1.358          | 96   | 286261     | 87.41   | ug/L  | # 98     |
| 12) chloroethane              | 1.416          | 64   | 288124     | 99.12   | ug/L  | 98       |
| 13) trichlorofluoromethane    | 1.479          | 101  | 894797     | 99.04   | ug/L  | 99       |
| 14) ethyl ether               | 1.610          | 74   | 172195     | 87.82   | ug/L  | 98       |
| 15) acrolein                  | 1.856          | 56   | 57538      | 90.08   | ug/L  | 97       |
| 16) freon 113                 | 1.720          | 151  | 295366     | 98.96   | ug/L  | 94       |
| 17) 1,1-dichloroethene        | 1.710          | 61   | 392979     | 90.83   | ug/L  | 99       |
| 18) acetone                   | 1.982          | 58   | 165418     | 335.25  | ug/L  | 99       |
| 19) acetonitrile              | 2.197          | 41   | 348463     | 843.53  | ug/L  | 99       |
| 20) iodomethane               | 1.788          | 142  | 327226     | 108.56  | ug/L  | 98       |
| 21) carbon disulfide          | 1.741          | 76   | 732917     | 90.30   | ug/L  | 99       |
| 22) methylene chloride        | 1.966          | 84   | 257767     | 90.18   | ug/L  | 99       |
| 23) methyl acetate            | 2.029          | 74   | 60104      | 90.19   | ug/L  | # 76     |
| 24) methyl tert butyl ether   | 2.077          | 73   | 710709     | 87.64   | ug/L  | 93       |
| 25) trans-1,2-dichloroethene  | 2.040          | 61   | 344930     | 90.04   | ug/L  | 96       |
| 26) hexane                    | 2.071          | 57   | 512864     | 88.93   | ug/L  | 96       |
| 27) di-isopropyl ether        | 2.239          | 45   | 651104     | 89.73   | ug/L  | 98       |
| 28) ethyl tert-butyl ether    | 2.407          | 59   | 692099     | 89.81   | ug/L  | 99       |
| 29) 2-butanone                | 2.832          | 72   | 195807     | 338.59  | ug/L  | 99       |
| 30) 1,1-dichloroethane        | 2.318          | 63   | 453762     | 90.44   | ug/L  | 99       |
| 31) chloroprene               | 2.307          | 53   | 359798     | 88.23   | ug/L  | 95       |
| 32) acrylonitrile             | 2.334          | 52   | 78856      | 83.78   | ug/L  | 99       |
| 33) vinyl acetate             | 2.412          | 86   | 59177      | 93.15   | ug/L  | 98       |
| 34) ethyl acetate             | 2.732          | 70   | 34471      | 85.61   | ug/L  | 97       |

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VU2015\  
 Data File : 2U49573.D  
 Acq On : 28 Oct 2022 9:48 pm  
 Operator : edwardd  
 Sample : ic2015-100  
 Misc : MS63374,V2U2015,5,,,1  
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Oct 31 14:56:41 2022  
 Quant Method : C:\MSDCHEM\1\METHODS\M2U2015.M  
 Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um  
 QLast Update : Mon Oct 31 14:55:54 2022  
 Response via : Initial Calibration

| Compound                      | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|---------|--------|----------|
| 35) 2,2-dichloropropane       | 2.622 | 77   | 412189   | 88.85   | ug/L   | 96       |
| 36) cis-1,2-dichloroethene    | 2.569 | 96   | 299466   | 93.15   | ug/L   | 92       |
| 37) propionitrile             | 2.989 | 54   | 467718   | 845.49  | ug/L   | 94       |
| 38) methyl acrylate           | 2.742 | 85   | 60331    | 87.76   | ug/L   | 99       |
| 39) bromochloromethane        | 2.664 | 128  | 145972   | 93.62   | ug/L   | 92       |
| 40) tetrahydrofuran           | 2.774 | 71   | 42565    | 80.23   | ug/L   | 95       |
| 41) chloroform                | 2.690 | 47   | 123931   | 86.01   | ug/L   | 97       |
| 43) methacrylonitrile         | 2.999 | 67   | 127577   | 84.13   | ug/L   | 95       |
| 44) 1,1,1-trichloroethane     | 2.805 | 97   | 485290   | 90.96   | ug/L   | 97       |
| 45) cyclohexane               | 2.680 | 84   | 408011   | 96.55   | ug/L   | 99       |
| 46) 1,1-dichloropropene       | 2.863 | 75   | 364841   | 88.75   | ug/L   | 97       |
| 47) carbon tetrachloride      | 2.774 | 117  | 480294   | 93.67   | ug/L   | 97       |
| 48) isobutyl alcohol          | 3.031 | 43   | 330325   | 830.72  | ug/L   | 96       |
| 49) tert-amyl alcohol         | 3.109 | 55   | 78440    | 399.03  | ug/L   | 98       |
| 52) iso-octane                | 2.910 | 57   | 869974   | 95.12   | ug/L   | 98       |
| 53) benzene                   | 2.989 | 78   | 969060   | 93.36   | ug/L   | 99       |
| 54) tert-amyl methyl ether    | 3.031 | 73   | 684431   | 91.55   | ug/L   | 99       |
| 55) heptane                   | 2.952 | 57   | 158673   | 97.02   | ug/L   | 97       |
| 56) isopropyl acetate         | 3.183 | 87   | 73558    | 97.90   | ug/L # | 90       |
| 57) 1,2-dichloroethane        | 3.088 | 62   | 322151   | 89.99   | ug/L   | 98       |
| 58) n-butyl alcohol           | 3.424 | 56   | 553564   | 4586.40 | ug/L   | 99       |
| 59) ethyl acrylate            | 3.555 | 55   | 368349   | 95.42   | ug/L   | 100      |
| 60) trichloroethene           | 3.288 | 130  | 347839   | 102.77  | ug/L   | 97       |
| 61) 2-nitropropane            | 4.252 | 41   | 100532   | 97.40   | ug/L   | 81       |
| 62) 2-chloroethyl vinyl ether | 3.922 | 63   | 830228   | 475.27  | ug/L   | 96       |
| 63) methyl methacrylate       | 3.676 | 100  | 93061    | 101.97  | ug/L # | 80       |
| 64) 1,2-dichloropropane       | 3.576 | 63   | 234152   | 96.35   | ug/L   | 100      |
| 65) methylcyclohexane         | 3.293 | 55   | 296234   | 94.52   | ug/L   | 99       |
| 66) dibromomethane            | 3.518 | 93   | 192511   | 96.40   | ug/L   | 92       |
| 67) bromodichloromethane      | 3.602 | 83   | 377314   | 94.66   | ug/L   | 99       |
| 68) epichlorohydrin           | 4.116 | 57   | 182047   | 457.21  | ug/L   | 97       |
| 69) cis-1,3-dichloropropene   | 3.969 | 75   | 406034   | 94.94   | ug/L   | 99       |
| 70) 4-methyl-2-pentanone      | 4.336 | 58   | 491480   | 370.12  | ug/L   | 98       |
| 71) 3-methyl-1-butanol        | 4.195 | 70   | 233813   | 1837.73 | ug/L   | 97       |
| 74) toluene                   | 4.116 | 92   | 675393   | 97.27   | ug/L   | 98       |
| 75) ethyl methacrylate        | 4.457 | 69   | 341607   | 93.87   | ug/L   | 100      |
| 76) trans-1,3-dichloropropene | 4.368 | 75   | 378217   | 93.86   | ug/L   | 97       |
| 77) 1,1,2-trichloroethane     | 4.467 | 83   | 202431   | 92.69   | ug/L   | 98       |
| 78) tetrachloroethene         | 4.363 | 166  | 411974   | 106.39  | ug/L   | 97       |
| 79) 2-hexanone                | 4.882 | 58   | 538655   | 366.41  | ug/L   | 96       |
| 80) 1,3-dichloropropane       | 4.651 | 76   | 381974   | 94.78   | ug/L   | 99       |
| 81) butyl acetate             | 4.813 | 56   | 176734   | 96.14   | ug/L   | 98       |
| 82) dibromochloromethane      | 4.588 | 129  | 354614   | 101.57  | ug/L   | 98       |
| 83) 1,2-dibromoethane         | 4.751 | 107  | 304396   | 96.88   | ug/L   | 99       |
| 84) n-butyl ether             | 5.028 | 57   | 975700   | 96.94   | ug/L   | 99       |
| 85) chlorobenzene             | 5.107 | 112  | 817451   | 96.35   | ug/L   | 97       |
| 86) 1,1,1,2-tetrachloroethane | 5.149 | 131  | 314854   | 97.87   | ug/L   | 98       |
| 87) ethylbenzene              | 5.123 | 91   | 1297701  | 92.72   | ug/L   | 100      |
| 88) m,p-xylene                | 5.222 | 106  | 1025265  | 185.40  | ug/L   | 98       |
| 89) o-xylene                  | 5.532 | 106  | 506152   | 97.32   | ug/L   | 94       |

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VU2015\  
 Data File : 2U49573.D  
 Acq On : 28 Oct 2022 9:48 pm  
 Operator : edwardd  
 Sample : ic2015-100  
 Misc : MS63374,V2U2015,5,,,1  
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Oct 31 14:56:41 2022  
 Quant Method : C:\MSDCHEM\1\METHODS\M2U2015.M  
 Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um  
 QLast Update : Mon Oct 31 14:55:54 2022  
 Response via : Initial Calibration

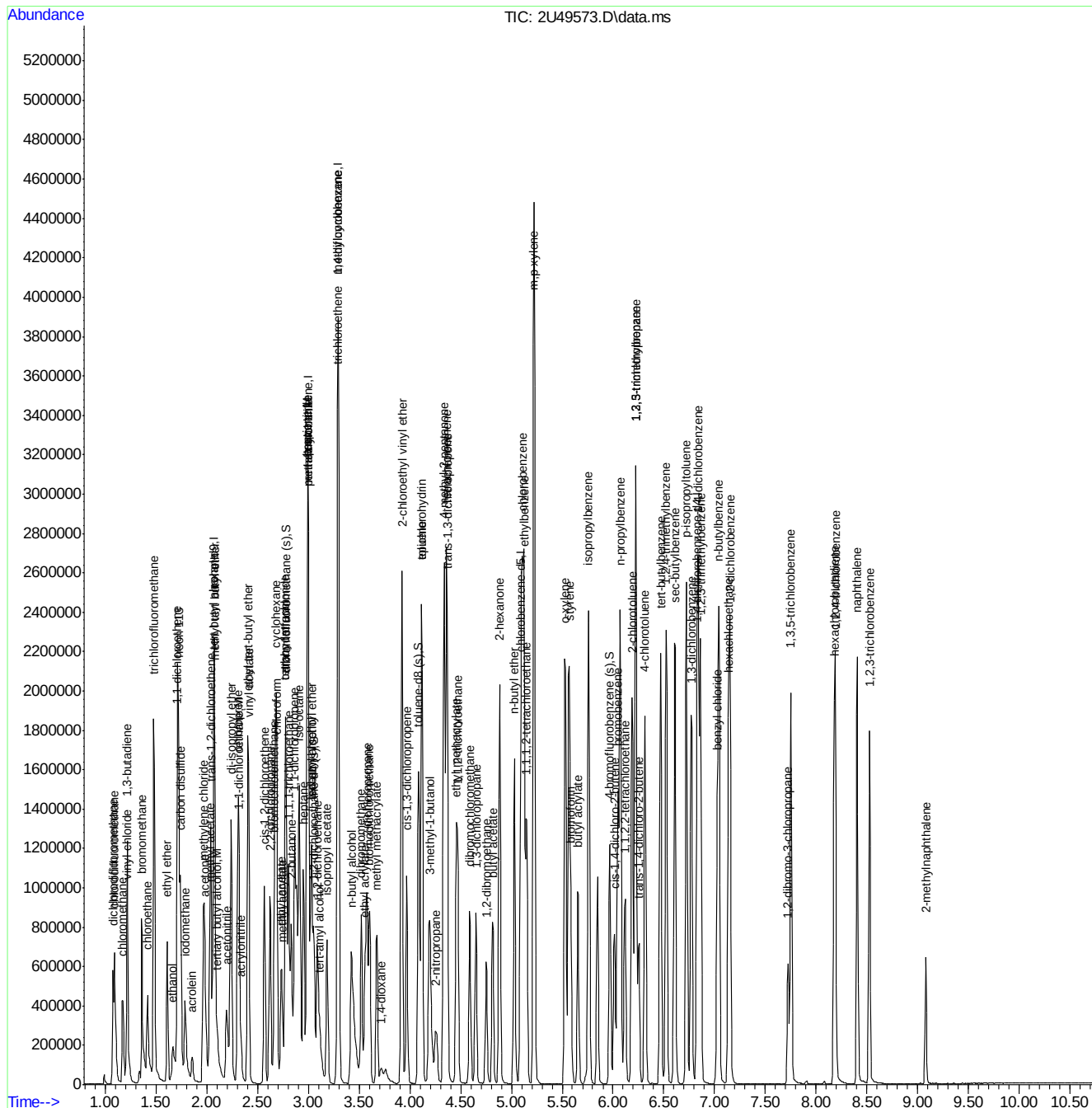
| Compound                       | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 90) styrene                    | 5.568 | 104  | 829184   | 94.51  | ug/L  | 98       |
| 91) bromoform                  | 5.584 | 173  | 318137   | 103.76 | ug/L  | 99       |
| 92) butyl acrylate             | 5.652 | 55   | 486541   | 93.72  | ug/L  | 98       |
| 93) isopropylbenzene           | 5.757 | 105  | 1353213  | 93.52  | ug/L  | 98       |
| 94) cis-1,4-dichloro-2-butene  | 6.014 | 88   | 164189   | 95.24  | ug/L  | 96       |
| 97) bromobenzene               | 6.046 | 156  | 407091   | 110.71 | ug/L  | 95       |
| 98) 1,1,2,2-tetrachloroethane  | 6.119 | 83   | 359386   | 94.14  | ug/L  | 99       |
| 99) trans-1,4-dichloro-2-b...  | 6.255 | 53   | 93547    | 95.93  | ug/L  | 98       |
| 100) 1,2,3-trichloropropane    | 6.224 | 110  | 122919   | 93.79  | ug/L  | 97       |
| 101) n-propylbenzene           | 6.072 | 91   | 1486226  | 95.02  | ug/L  | 99       |
| 102) 2-chlorotoluene           | 6.187 | 126  | 345742   | 100.89 | ug/L  | 95       |
| 103) 4-chlorotoluene           | 6.313 | 91   | 858955   | 95.21  | ug/L  | 99       |
| 104) 1,3,5-trimethylbenzene    | 6.224 | 105  | 1041806  | 95.48  | ug/L  | 99       |
| 105) tert-butylbenzene         | 6.470 | 119  | 967602   | 97.91  | ug/L  | 97       |
| 106) 1,2,4-trimethylbenzene    | 6.523 | 105  | 1032978  | 94.65  | ug/L  | 99       |
| 107) sec-butylbenzene          | 6.612 | 105  | 1339755  | 94.24  | ug/L  | 97       |
| 108) 1,3-dichlorobenzene       | 6.774 | 146  | 692252   | 99.36  | ug/L  | 98       |
| 109) p-isopropyltoluene        | 6.722 | 119  | 1180558  | 97.13  | ug/L  | 99       |
| 110) 1,4-dichlorobenzene       | 6.837 | 146  | 676946   | 96.37  | ug/L  | 99       |
| 111) 1,2-dichlorobenzene       | 7.152 | 146  | 630568   | 97.66  | ug/L  | 98       |
| 112) 1,2,3-trimethylbenzene    | 6.864 | 105  | 1008433  | 93.76  | ug/L  | 98       |
| 113) n-butylbenzene            | 7.042 | 92   | 571263   | 95.00  | ug/L  | 97       |
| 114) 1,2-dibromo-3-chloropr... | 7.723 | 157  | 141311   | 109.65 | ug/L  | 94       |
| 115) 1,3,5-trichlorobenzene    | 7.750 | 180  | 513827   | 115.39 | ug/L  | 100      |
| 116) 1,2,4-trichlorobenzene    | 8.190 | 180  | 409624   | 113.51 | ug/L  | 98       |
| 117) hexachlorobutadiene       | 8.180 | 225  | 202124   | 115.13 | ug/L  | 98       |
| 118) naphthalene               | 8.405 | 128  | 1162268  | 110.42 | ug/L  | 99       |
| 119) 1,2,3-trichlorobenzene    | 8.526 | 180  | 411713   | 117.81 | ug/L  | 98       |
| 120) hexachloroethane          | 7.136 | 119  | 225724   | 99.60  | ug/L  | 91       |
| 121) benzyl chloride           | 7.026 | 126  | 159319   | 98.82  | ug/L  | 100      |
| 122) 2-methylnaphthalene       | 9.081 | 142  | 201707   | 58.75  | ug/L  | 99       |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VU2015\  
Data File : 2U49573.D  
Acq On : 28 Oct 2022 9:48 pm  
Operator : edwardd  
Sample : ic2015-100  
Misc : MS63374,V2U2015,5,,,,,1  
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Oct 31 14:56:41 2022  
Quant Method : C:\MSDCHEM\1\METHODS\M2U2015.M  
Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um  
QLast Update : Mon Oct 31 14:55:54 2022  
Response via : Initial Calibration



## 7.6.35





## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VU2015\  
 Data File : 2U49575.D  
 Acq On : 28 Oct 2022 10:17 pm  
 Operator : edwardd  
 Sample : ic2015-200  
 Misc : MS63374,V2U2015,5,,,1  
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Nov 02 12:35:14 2022

Quant Method : C:\MSDCHEM\1\METHODS\M2U2015.M

Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um

QLast Update : Mon Oct 31 14:55:54 2022

Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|-------|----------|
| Internal Standards            |        |       |          |          |       |          |
| 1) tert butyl alcohol-d9      | 2.066  | 65    | 360941   | 500.00   | ug/L  | 0.00     |
| 5) pentafluorobenzene         | 2.999  | 168   | 523893   | 50.00    | ug/L  | 0.00     |
| 50) 1,4-difluorobenzene       | 3.293  | 114   | 652345   | 50.00    | ug/L  | 0.00     |
| 72) chlorobenzene-d5          | 5.091  | 117   | 638612   | 50.00    | ug/L  | 0.00     |
| 95) 1,4-dichlorobenzene-d4    | 6.827  | 152   | 317220   | 50.00    | ug/L  | 0.00     |
| System Monitoring Compounds   |        |       |          |          |       |          |
| 42) dibromofluoromethane (s)  | 2.779  | 113   | 226792   | 47.11    | ug/L  | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 127 | Recovery | =     | 94.22%   |
| 51) 1,2-dichloroethane-d4 (s) | 3.052  | 65    | 224301   | 44.68    | ug/L  | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 130 | Recovery | =     | 89.36%   |
| 73) toluene-d8 (s)            | 4.085  | 98    | 761545   | 50.47    | ug/L  | 0.00     |
| Spiked Amount                 | 50.000 | Range | 80 - 120 | Recovery | =     | 100.94%  |
| 96) 4-bromofluorobenzene (s)  | 5.967  | 95    | 275329   | 52.57    | ug/L  | 0.00     |
| Spiked Amount                 | 50.000 | Range | 79 - 127 | Recovery | =     | 105.14%  |
| Target Compounds              |        |       |          |          |       |          |
| 2) ethanol                    | 1.662  | 45    | 442536   | 14610.34 | ug/L  | 98       |
| 3) tertiary butyl alcohol     | 2.098  | 59    | 417929   | 888.18   | ug/L  | 81       |
| 4) 1,4-dioxane                | 3.718  | 88    | 221687   | 4919.34  | ug/L  | 94       |
| 6) chlorodifluoromethane      | 1.086  | 51    | 595983   | 198.95   | ug/L  | 97       |
| 7) dichlorodifluoromethane    | 1.070  | 85    | 930310   | 214.03   | ug/L  | 99       |
| 8) chloromethane              | 1.164  | 50    | 597237   | 212.28   | ug/L  | 99       |
| 9) vinyl chloride             | 1.206  | 62    | 687139   | 196.63   | ug/L  | 100      |
| 10) 1,3-butadiene             | 1.211  | 39    | 363712   | 176.33   | ug/L  | 98       |
| 11) bromomethane              | 1.353  | 96    | 495931   | 156.20   | ug/L  | # 98     |
| 12) chloroethane              | 1.411  | 64    | 499734   | 177.34   | ug/L  | 97       |
| 13) trichlorofluoromethane    | 1.474  | 101   | 1607181  | 183.49   | ug/L  | 100      |
| 14) ethyl ether               | 1.605  | 74    | 358947   | 188.82   | ug/L  | 98       |
| 15) acrolein                  | 1.851  | 56    | 123457   | 199.37   | ug/L  | 95       |
| 16) freon 113                 | 1.715  | 151   | 582018   | 201.14   | ug/L  | 91       |
| 17) 1,1-dichloroethene        | 1.704  | 61    | 779853   | 185.93   | ug/L  | 99       |
| 18) acetone                   | 1.977  | 58    | 235972   | 493.30   | ug/L  | 97       |
| 19) acetonitrile              | 2.192  | 41    | 613332   | 1531.43  | ug/L  | 98       |
| 21) carbon disulfide          | 1.736  | 76    | 1383797  | 175.87   | ug/L  | 99       |
| 22) methylene chloride        | 1.961  | 84    | 510866   | 184.35   | ug/L  | 99       |
| 23) methyl acetate            | 2.024  | 74    | 117910   | 182.50   | ug/L  | # 75     |
| 24) methyl tert butyl ether   | 2.071  | 73    | 1368912  | 174.12   | ug/L  | 93       |
| 26) hexane                    | 2.066  | 57    | 979991   | 175.29   | ug/L  | 98       |
| 27) di-isopropyl ether        | 2.234  | 45    | 1304094  | 185.38   | ug/L  | 99       |
| 28) ethyl tert-butyl ether    | 2.402  | 59    | 1359092  | 181.90   | ug/L  | 97       |
| 29) 2-butanone                | 2.832  | 72    | 346793   | 618.55   | ug/L  | 96       |
| 30) 1,1-dichloroethane        | 2.312  | 63    | 876925   | 180.28   | ug/L  | 99       |
| 31) chloroprene               | 2.302  | 53    | 720782   | 182.31   | ug/L  | 97       |
| 32) acrylonitrile             | 2.333  | 52    | 167419   | 183.46   | ug/L  | 97       |
| 33) vinyl acetate             | 2.407  | 86    | 123623   | 200.73   | ug/L  | # 81     |
| 34) ethyl acetate             | 2.727  | 70    | 68663    | 175.90   | ug/L  | 100      |
| 35) 2,2-dichloropropane       | 2.622  | 77    | 777629   | 172.90   | ug/L  | 97       |
| 36) cis-1,2-dichloroethene    | 2.564  | 96    | 584147   | 187.42   | ug/L  | 94       |

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VU2015\  
 Data File : 2U49575.D  
 Acq On : 28 Oct 2022 10:17 pm  
 Operator : edwardd  
 Sample : ic2015-200  
 Misc : MS63374,V2U2015,5,,,1  
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Nov 02 12:35:14 2022

Quant Method : C:\MSDCHEM\1\METHODS\M2U2015.M

Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um

QLast Update : Mon Oct 31 14:55:54 2022

Response via : Initial Calibration

| Compound                      | R.T.  | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|---------|--------|----------|
| 37) propionitrile             | 2.989 | 54   | 894910   | 1668.65 | ug/L   | 97       |
| 38) methyl acrylate           | 2.742 | 85   | 116553   | 174.88  | ug/L   | 95       |
| 39) bromochloromethane        | 2.664 | 128  | 284861   | 188.44  | ug/L   | 90       |
| 40) tetrahydrofuran           | 2.774 | 71   | 79702    | 154.96  | ug/L   | 99       |
| 41) chloroform                | 2.685 | 47   | 238070   | 170.42  | ug/L   | 98       |
| 43) methacrylonitrile         | 2.999 | 67   | 245122   | 166.73  | ug/L   | 94       |
| 44) 1,1,1-trichloroethane     | 2.805 | 97   | 910598   | 176.06  | ug/L   | 98       |
| 45) cyclohexane               | 2.674 | 84   | 777153   | 189.69  | ug/L   | 96       |
| 46) 1,1-dichloropropene       | 2.863 | 75   | 690719   | 173.31  | ug/L   | 97       |
| 47) carbon tetrachloride      | 2.774 | 117  | 968467   | 194.83  | ug/L   | 97       |
| 48) isobutyl alcohol          | 3.026 | 43   | 601998   | 1561.59 | ug/L   | 91       |
| 49) tert-amyl alcohol         | 3.115 | 55   | 152321   | 799.27  | ug/L   | 96       |
| 52) iso-octane                | 2.910 | 57   | 1678757  | 188.62  | ug/L   | 98       |
| 53) benzene                   | 2.989 | 78   | 1840981  | 182.27  | ug/L   | 98       |
| 54) tert-amyl methyl ether    | 3.026 | 73   | 1318397  | 181.23  | ug/L   | 99       |
| 55) heptane                   | 2.952 | 57   | 285674   | 179.50  | ug/L   | 99       |
| 56) isopropyl acetate         | 3.183 | 87   | 144325   | 197.39  | ug/L   | 94       |
| 57) 1,2-dichloroethane        | 3.088 | 62   | 626227   | 179.77  | ug/L   | 99       |
| 58) n-butyl alcohol           | 3.429 | 56   | 1071614  | 9123.65 | ug/L   | 97       |
| 59) ethyl acrylate            | 3.555 | 55   | 738678   | 196.64  | ug/L   | 100      |
| 60) trichloroethene           | 3.288 | 130  | 673445   | 204.46  | ug/L   | 97       |
| 61) 2-nitropropane            | 4.252 | 41   | 218608   | 217.63  | ug/L   | 81       |
| 62) 2-chloroethyl vinyl ether | 3.922 | 63   | 1631851  | 959.95  | ug/L   | 96       |
| 63) methyl methacrylate       | 3.676 | 100  | 178115   | 200.56  | ug/L # | 86       |
| 64) 1,2-dichloropropane       | 3.576 | 63   | 465022   | 196.63  | ug/L   | 97       |
| 65) methylcyclohexane         | 3.293 | 55   | 562458   | 184.42  | ug/L   | 97       |
| 66) dibromomethane            | 3.518 | 93   | 370473   | 190.64  | ug/L   | 83       |
| 67) bromodichloromethane      | 3.602 | 83   | 718430   | 185.22  | ug/L   | 99       |
| 68) epichlorohydrin           | 4.116 | 57   | 352129   | 908.78  | ug/L   | 99       |
| 69) cis-1,3-dichloropropene   | 3.969 | 75   | 795684   | 191.19  | ug/L   | 99       |
| 70) 4-methyl-2-pentanone      | 4.336 | 58   | 953705   | 738.03  | ug/L   | 99       |
| 71) 3-methyl-1-butanol        | 4.200 | 70   | 455001   | 3674.95 | ug/L   | 100      |
| 74) toluene                   | 4.116 | 92   | 1295276  | 194.78  | ug/L   | 97       |
| 75) ethyl methacrylate        | 4.457 | 69   | 656682   | 188.42  | ug/L   | 98       |
| 76) trans-1,3-dichloropropene | 4.368 | 75   | 732338   | 189.77  | ug/L   | 98       |
| 77) 1,1,2-trichloroethane     | 4.467 | 83   | 386688   | 184.86  | ug/L   | 99       |
| 78) tetrachloroethene         | 4.362 | 166  | 762407   | 205.57  | ug/L   | 97       |
| 79) 2-hexanone                | 4.887 | 58   | 1001261  | 711.14  | ug/L   | 99       |
| 80) 1,3-dichloropropane       | 4.651 | 76   | 740965   | 191.98  | ug/L   | 99       |
| 81) butyl acetate             | 4.819 | 56   | 350806   | 199.24  | ug/L   | 95       |
| 82) dibromochloromethane      | 4.588 | 129  | 683609   | 204.44  | ug/L   | 100      |
| 83) 1,2-dibromoethane         | 4.750 | 107  | 586249   | 194.82  | ug/L   | 98       |
| 84) n-butyl ether             | 5.028 | 57   | 1870960  | 194.09  | ug/L   | 99       |
| 85) chlorobenzene             | 5.107 | 112  | 1552836  | 191.09  | ug/L   | 98       |
| 86) 1,1,1,2-tetrachloroethane | 5.149 | 131  | 582006   | 188.90  | ug/L   | 96       |
| 87) ethylbenzene              | 5.123 | 91   | 2404585  | 179.38  | ug/L   | 99       |
| 88) m,p-xylene                | 5.222 | 106  | 1892419  | 357.31  | ug/L   | 100      |
| 89) o-xylene                  | 5.532 | 106  | 954579   | 191.64  | ug/L   | 96       |
| 90) styrene                   | 5.568 | 104  | 1547882  | 184.22  | ug/L   | 98       |
| 91) bromoform                 | 5.584 | 173  | 594654   | 202.50  | ug/L   | 99       |



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VU2015\  
 Data File : 2U49575.D  
 Acq On : 28 Oct 2022 10:17 pm  
 Operator : edwardd  
 Sample : ic2015-200  
 Misc : MS63374,V2U2015,5,,,1  
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Nov 02 12:35:14 2022

Quant Method : C:\MSDCHEM\1\METHODS\M2U2015.M

Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um

QLast Update : Mon Oct 31 14:55:54 2022

Response via : Initial Calibration

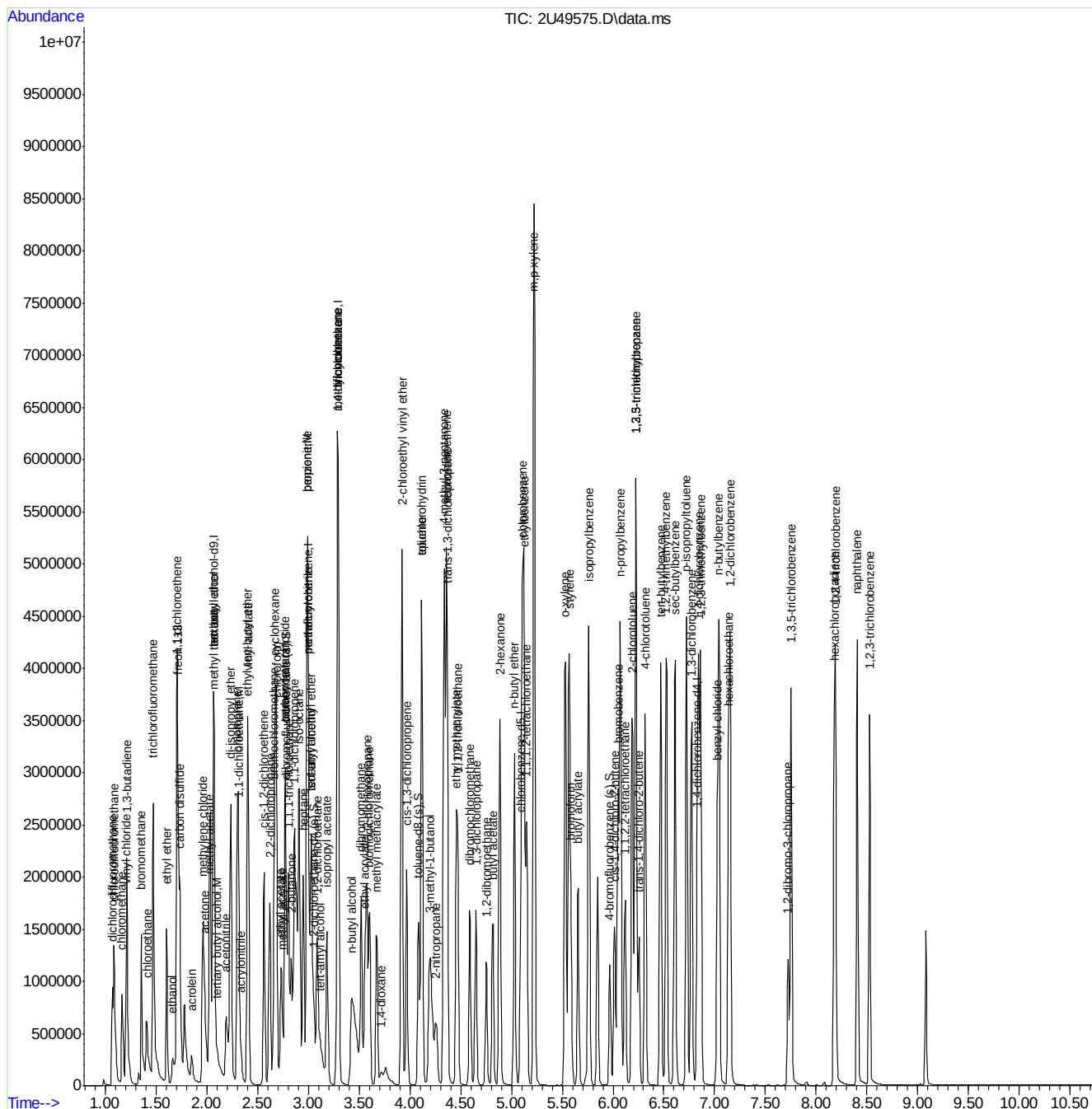
| Compound                       | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 92) butyl acrylate             | 5.658 | 55   | 947610   | 190.58 | ug/L  | 98       |
| 93) isopropylbenzene           | 5.762 | 105  | 2453576  | 177.04 | ug/L  | 97       |
| 94) cis-1,4-dichloro-2-butene  | 6.014 | 88   | 324128   | 196.30 | ug/L  | 96       |
| 97) bromobenzene               | 6.051 | 156  | 765686   | 227.12 | ug/L  | 90       |
| 98) 1,1,2,2-tetrachloroethane  | 6.119 | 83   | 677698   | 193.63 | ug/L  | 98       |
| 99) trans-1,4-dichloro-2-b...  | 6.255 | 53   | 181523   | 203.04 | ug/L  | 99       |
| 100) 1,2,3-trichloropropane    | 6.224 | 110  | 225549   | 187.71 | ug/L  | 98       |
| 101) n-propylbenzene           | 6.072 | 91   | 2694520  | 187.90 | ug/L  | 99       |
| 102) 2-chlorotoluene           | 6.187 | 126  | 630628   | 200.73 | ug/L  | 97       |
| 103) 4-chlorotoluene           | 6.318 | 91   | 1567121  | 189.48 | ug/L  | 97       |
| 104) 1,3,5-trimethylbenzene    | 6.224 | 105  | 1867431  | 186.68 | ug/L  | 99       |
| 105) tert-butylbenzene         | 6.470 | 119  | 1734756  | 191.46 | ug/L  | 99       |
| 106) 1,2,4-trimethylbenzene    | 6.523 | 105  | 1893578  | 189.25 | ug/L  | 99       |
| 107) sec-butylbenzene          | 6.612 | 105  | 2395753  | 183.80 | ug/L  | 98       |
| 108) 1,3-dichlorobenzene       | 6.774 | 146  | 1246908  | 195.22 | ug/L  | 97       |
| 109) p-isopropyltoluene        | 6.722 | 119  | 2132572  | 191.38 | ug/L  | 100      |
| 110) 1,4-dichlorobenzene       | 6.842 | 146  | 1241965  | 192.84 | ug/L  | 99       |
| 111) 1,2-dichlorobenzene       | 7.152 | 146  | 1147789  | 193.90 | ug/L  | 98       |
| 112) 1,2,3-trimethylbenzene    | 6.863 | 105  | 1835808  | 186.18 | ug/L  | 97       |
| 113) n-butylbenzene            | 7.042 | 92   | 1058899  | 192.07 | ug/L  | 100      |
| 114) 1,2-dibromo-3-chloropr... | 7.723 | 157  | 282468   | 239.06 | ug/L  | 93       |
| 115) 1,3,5-trichlorobenzene    | 7.755 | 180  | 1016316  | 248.95 | ug/L  | 99       |
| 116) 1,2,4-trichlorobenzene    | 8.190 | 180  | 836858   | 252.95 | ug/L  | 99       |
| 117) hexachlorobutadiene       | 8.179 | 225  | 421514   | 261.89 | ug/L  | 99       |
| 118) naphthalene               | 8.405 | 128  | 2279522  | 236.21 | ug/L  | 100      |
| 119) 1,2,3-trichlorobenzene    | 8.525 | 180  | 830802   | 259.31 | ug/L  | 99       |
| 120) hexachloroethane          | 7.136 | 119  | 416994   | 200.70 | ug/L  | 91       |
| 121) benzyl chloride           | 7.026 | 126  | 303787   | 205.54 | ug/L  | 99       |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VU2015\  
Data File : 2U49575.D  
Acq On : 28 Oct 2022 10:17 pm  
Operator : edwardd  
Sample : ic2015-200  
Misc : MS63374,V2U2015,5,,,,,1  
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Nov 02 12:35:14 2022  
Quant Method : C:\MSDCHEM\1\METHODS\M2U2015.M  
Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um  
QLast Update : Mon Oct 31 14:55:54 2022  
Response via : Initial Calibration



M2U2015.M Wed Nov 02 17:16:07 2022

Page: 4

7.6.36

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VU2015\  
 Data File : 2U49581.D  
 Acq On : 28 Oct 2022 11:44 pm  
 Operator : edwardd  
 Sample : icv2015-50  
 Misc : MS63374,V2U2015,5,,,1  
 ALS Vial : 27 Sample Multiplier: 1

Quant Time: Nov 02 12:35:40 2022

Quant Method : C:\MSDCHEM\1\METHODS\M2U2015.M

Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um

QLast Update : Wed Nov 02 12:34:58 2022

Response via : Initial Calibration

| Compound                      | R.T.           | QIon | Response   | Conc    | Units | Dev(Min) |
|-------------------------------|----------------|------|------------|---------|-------|----------|
| Internal Standards            |                |      |            |         |       |          |
| 1) tert butyl alcohol-d9      | 2.061          | 65   | 398042     | 500.00  | ug/L  | 0.00     |
| 5) pentafluorobenzene         | 2.999          | 168  | 501290     | 50.00   | ug/L  | 0.00     |
| 50) 1,4-difluorobenzene       | 3.293          | 114  | 656631     | 50.00   | ug/L  | 0.00     |
| 72) chlorobenzene-d5          | 5.091          | 117  | 652420     | 50.00   | ug/L  | 0.00     |
| 95) 1,4-dichlorobenzene-d4    | 6.827          | 152  | 355505     | 50.00   | ug/L  | 0.00     |
| System Monitoring Compounds   |                |      |            |         |       |          |
| 42) dibromofluoromethane (s)  | 2.779          | 113  | 229568     | 47.02   | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 75 - 127 |      | Recovery = | 94.04%  |       |          |
| 51) 1,2-dichloroethane-d4 (s) | 3.052          | 65   | 248684     | 47.83   | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 75 - 130 |      | Recovery = | 95.66%  |       |          |
| 73) toluene-d8 (s)            | 4.085          | 98   | 772449     | 48.02   | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 80 - 120 |      | Recovery = | 96.04%  |       |          |
| 96) 4-bromofluorobenzene (s)  | 5.967          | 95   | 291844     | 46.01   | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 79 - 127 |      | Recovery = | 92.02%  |       |          |
| Target Compounds              |                |      |            |         |       |          |
| 2) ethanol                    | 1.657          | 45   | 180444     | 5161.07 | ug/L  | 99       |
| 3) tertiary butyl alcohol     | 2.092          | 59   | 138024     | 256.70  | ug/L  | 87       |
| 4) 1,4-dioxane                | 3.712          | 88   | 62202      | 1377.83 | ug/L  | 97       |
| 7) dichlorodifluoromethane    | 1.070          | 85   | 225223     | 51.67   | ug/L  | 99       |
| 8) chloromethane              | 1.170          | 50   | 150605     | 47.91   | ug/L  | 97       |
| 9) vinyl chloride             | 1.206          | 62   | 190572     | 52.14   | ug/L  | 100      |
| 10) 1,3-butadiene             | 1.212          | 39   | 139268     | 66.25   | ug/L  | 93       |
| 11) bromomethane              | 1.358          | 96   | 169805     | 56.35   | ug/L  | # 98     |
| 12) chloroethane              | 1.416          | 64   | 153402     | 52.04   | ug/L  | 98       |
| 13) trichlorofluoromethane    | 1.479          | 101  | 435764     | 48.72   | ug/L  | 99       |
| 14) ethyl ether               | 1.610          | 74   | 84704      | 44.32   | ug/L  | 95       |
| 15) acrolein                  | 1.851          | 56   | 34228      | 56.64   | ug/L  | 97       |
| 16) freon 113                 | 1.720          | 151  | 124638     | 43.79   | ug/L  | 98       |
| 17) 1,1-dichloroethene        | 1.710          | 61   | 186621     | 44.19   | ug/L  | 100      |
| 18) acetone                   | 1.977          | 58   | 84453      | 209.49  | ug/L  | 95       |
| 20) iodomethane               | 1.783          | 142  | 125249     | 41.83   | ug/L  | 97       |
| 21) carbon disulfide          | 1.741          | 76   | 354997     | 45.58   | ug/L  | 99       |
| 22) methylene chloride        | 1.961          | 84   | 126445     | 46.40   | ug/L  | 96       |
| 23) methyl acetate            | 2.024          | 74   | 32114      | 50.31   | ug/L  | 100      |
| 24) methyl tert butyl ether   | 2.077          | 73   | 360491     | 46.51   | ug/L  | 98       |
| 25) trans-1,2-dichloroethene  | 2.035          | 61   | 169437     | 49.59   | ug/L  | 99       |
| 26) hexane                    | 2.066          | 57   | 283871     | 51.73   | ug/L  | 98       |
| 27) di-isopropyl ether        | 2.234          | 45   | 331578     | 47.13   | ug/L  | 100      |
| 28) ethyl tert-butyl ether    | 2.402          | 59   | 341498     | 46.59   | ug/L  | 97       |
| 29) 2-butanone                | 2.832          | 72   | 104750     | 204.58  | ug/L  | 95       |
| 30) 1,1-dichloroethane        | 2.313          | 63   | 218719     | 45.33   | ug/L  | 99       |
| 31) chloroprene               | 2.302          | 53   | 183162     | 47.30   | ug/L  | 99       |
| 33) vinyl acetate             | 2.407          | 86   | 22481      | 38.24   | ug/L  | # 60     |
| 34) ethyl acetate             | 2.727          | 70   | 18090      | 50.15   | ug/L  | 94       |
| 35) 2,2-dichloropropane       | 2.622          | 77   | 193585     | 44.23   | ug/L  | 99       |
| 36) cis-1,2-dichloroethene    | 2.564          | 96   | 141458     | 45.78   | ug/L  | 98       |
| 37) propionitrile             | 2.984          | 54   | 231604     | 445.45  | ug/L  | 95       |

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VU2015\  
 Data File : 2U49581.D  
 Acq On : 28 Oct 2022 11:44 pm  
 Operator : edwardd  
 Sample : icv2015-50  
 Misc : MS63374,V2U2015,5,,,1  
 ALS Vial : 27 Sample Multiplier: 1

Quant Time: Nov 02 12:35:40 2022  
 Quant Method : C:\MSDCHEM\1\METHODS\M2U2015.M  
 Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um  
 QLast Update : Wed Nov 02 12:34:58 2022  
 Response via : Initial Calibration

| Compound                      | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|-------|------|----------|---------|-------|----------|
| 38) methyl acrylate           | 2.737 | 85   | 30770    | 51.82   | ug/L  | 100      |
| 39) bromochloromethane        | 2.664 | 128  | 70164    | 46.90   | ug/L  | 95       |
| 40) tetrahydrofuran           | 2.774 | 71   | 22683    | 47.92   | ug/L  | 96       |
| 41) chloroform                | 2.685 | 47   | 68330    | 46.40   | ug/L  | 99       |
| 43) methacrylonitrile         | 2.999 | 67   | 67671    | 47.43   | ug/L  | 99       |
| 44) 1,1,1-trichloroethane     | 2.805 | 97   | 231964   | 46.29   | ug/L  | 97       |
| 45) cyclohexane               | 2.680 | 84   | 240795   | 57.34   | ug/L  | 99       |
| 46) 1,1-dichloropropene       | 2.863 | 75   | 178252   | 46.29   | ug/L  | 99       |
| 47) carbon tetrachloride      | 2.774 | 117  | 228826   | 45.02   | ug/L  | 97       |
| 48) isobutyl alcohol          | 3.026 | 43   | 176448   | 502.92  | ug/L  | 99       |
| 49) tert-amyl alcohol         | 3.109 | 55   | 42808    | 229.86  | ug/L  | 97       |
| 52) iso-octane                | 2.910 | 57   | 371683   | 40.23   | ug/L  | 96       |
| 53) benzene                   | 2.989 | 78   | 484684   | 46.50   | ug/L  | 99       |
| 54) tert-amyl methyl ether    | 3.026 | 73   | 350171   | 46.94   | ug/L  | 98       |
| 55) heptane                   | 2.952 | 57   | 69576    | 43.60   | ug/L  | 98       |
| 56) isopropyl acetate         | 3.183 | 87   | 36788    | 50.93   | ug/L  | # 87     |
| 57) 1,2-dichloroethane        | 3.089 | 62   | 166883   | 45.66   | ug/L  | 98       |
| 58) n-butyl alcohol           | 3.419 | 56   | 299867   | 2520.64 | ug/L  | 99       |
| 59) ethyl acrylate            | 3.555 | 55   | 182267   | 46.73   | ug/L  | 99       |
| 60) trichloroethene           | 3.288 | 130  | 164804   | 50.95   | ug/L  | 99       |
| 61) 2-nitropropane            | 4.247 | 41   | 56030    | 54.41   | ug/L  | # 60     |
| 62) 2-chloroethyl vinyl ether | 3.917 | 63   | 372431   | 236.49  | ug/L  | 99       |
| 63) methyl methacrylate       | 3.671 | 100  | 48492    | 57.29   | ug/L  | 98       |
| 64) 1,2-dichloropropane       | 3.576 | 63   | 116724   | 49.87   | ug/L  | 99       |
| 65) methylcyclohexane         | 3.293 | 55   | 142469   | 42.87   | ug/L  | 99       |
| 66) dibromomethane            | 3.518 | 93   | 97270    | 48.77   | ug/L  | 98       |
| 67) bromodichloromethane      | 3.602 | 83   | 189712   | 47.18   | ug/L  | 97       |
| 68) epichlorohydrin           | 4.111 | 57   | 92465    | 227.33  | ug/L  | 99       |
| 69) cis-1,3-dichloropropene   | 3.964 | 75   | 200958   | 48.84   | ug/L  | 97       |
| 70) 4-methyl-2-pentanone      | 4.336 | 58   | 260809   | 202.88  | ug/L  | 99       |
| 71) 3-methyl-1-butanol        | 4.190 | 70   | 124577   | 1038.75 | ug/L  | 100      |
| 74) toluene                   | 4.116 | 92   | 336694   | 48.80   | ug/L  | 100      |
| 75) ethyl methacrylate        | 4.457 | 69   | 170163   | 47.90   | ug/L  | 96       |
| 76) trans-1,3-dichloropropene | 4.363 | 75   | 195528   | 48.80   | ug/L  | 99       |
| 77) 1,1,2-trichloroethane     | 4.467 | 83   | 105312   | 47.70   | ug/L  | 99       |
| 79) 2-hexanone                | 4.882 | 58   | 292096   | 200.97  | ug/L  | 98       |
| 80) 1,3-dichloropropane       | 4.651 | 76   | 197247   | 48.88   | ug/L  | 98       |
| 81) butyl acetate             | 4.813 | 56   | 94583    | 51.95   | ug/L  | 99       |
| 82) dibromochloromethane      | 4.588 | 129  | 175529   | 50.21   | ug/L  | 98       |
| 83) 1,2-dibromoethane         | 4.751 | 107  | 152178   | 50.23   | ug/L  | 98       |
| 84) n-butyl ether             | 5.028 | 57   | 492571   | 50.81   | ug/L  | 100      |
| 85) chlorobenzene             | 5.102 | 112  | 418278   | 50.89   | ug/L  | 98       |
| 86) 1,1,1,2-tetrachloroethane | 5.144 | 131  | 160938   | 54.45   | ug/L  | 96       |
| 87) ethylbenzene              | 5.118 | 91   | 682684   | 48.47   | ug/L  | 97       |
| 88) m,p-xylene                | 5.222 | 106  | 541006   | 107.39  | ug/L  | 99       |
| 89) o-xylene                  | 5.527 | 106  | 259604   | 52.82   | ug/L  | 99       |
| 90) styrene                   | 5.563 | 104  | 431601   | 54.70   | ug/L  | 99       |
| 91) bromoform                 | 5.584 | 173  | 158117   | 57.36   | ug/L  | 98       |
| 92) butyl acrylate            | 5.652 | 55   | 256883   | 50.98   | ug/L  | 98       |
| 93) isopropylbenzene          | 5.757 | 105  | 714817   | 54.64   | ug/L  | 99       |

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VU2015\  
 Data File : 2U49581.D  
 Acq On : 28 Oct 2022 11:44 pm  
 Operator : edwardd  
 Sample : icv2015-50  
 Misc : MS63374,V2U2015,5,,,1  
 ALS Vial : 27 Sample Multiplier: 1

Quant Time: Nov 02 12:35:40 2022

Quant Method : C:\MSDCHEM\1\METHODS\M2U2015.M

Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um

QLast Update : Wed Nov 02 12:34:58 2022

Response via : Initial Calibration

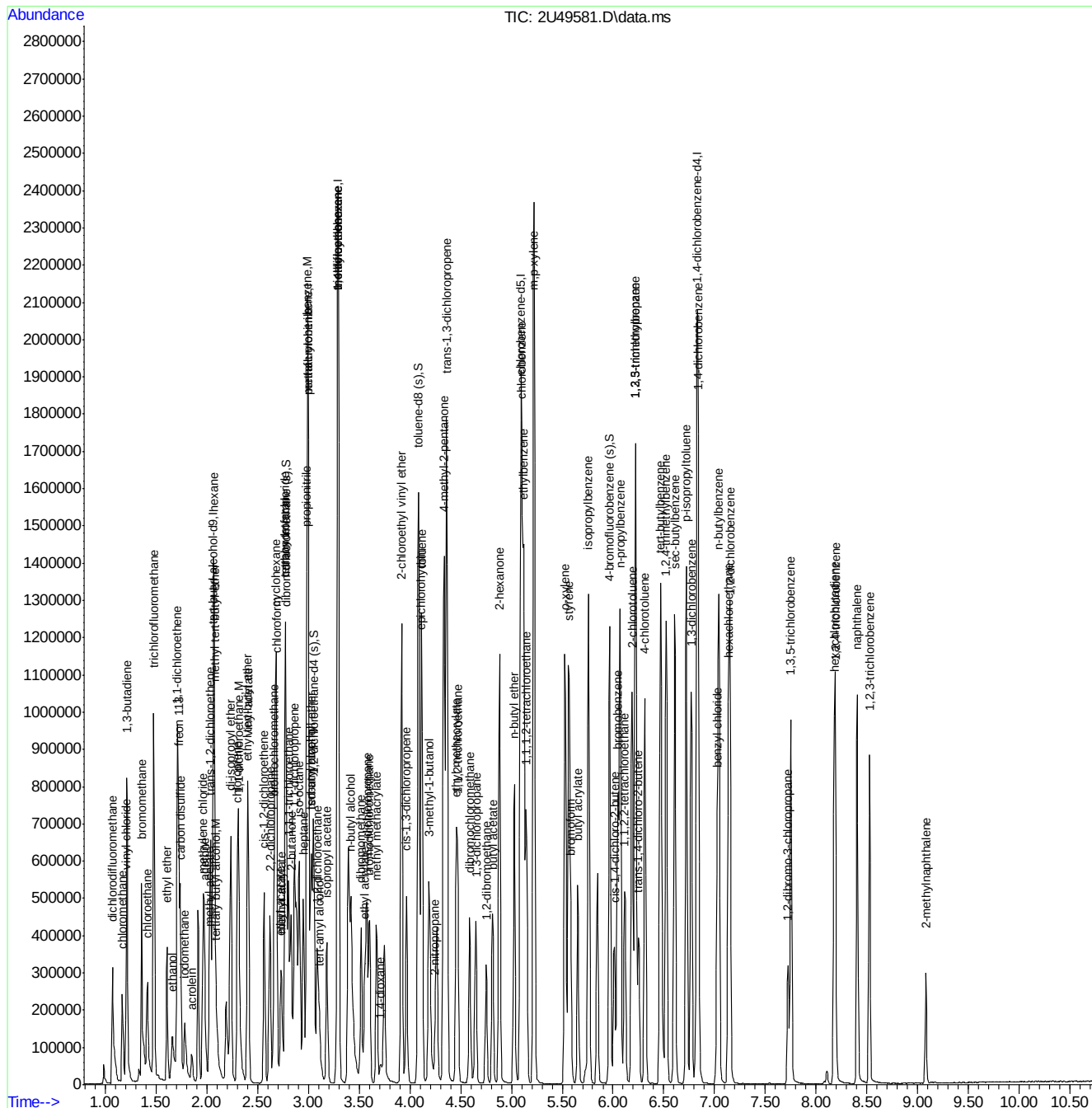
| Compound                       | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-------|-------|----------|
| 94) cis-1,4-dichloro-2-butene  | 6.014 | 88   | 78767    | 48.29 | ug/L  | 91       |
| 97) bromobenzene               | 6.046 | 156  | 198161   | 49.19 | ug/L  | 98       |
| 98) 1,1,2,2-tetrachloroethane  | 6.114 | 83   | 194642   | 44.91 | ug/L  | 98       |
| 99) trans-1,4-dichloro-2-b...  | 6.250 | 53   | 52263    | 48.88 | ug/L  | 99       |
| 100) 1,2,3-trichloropropane    | 6.219 | 110  | 67130    | 47.27 | ug/L  | 99       |
| 101) n-propylbenzene           | 6.072 | 91   | 805147   | 48.76 | ug/L  | 99       |
| 102) 2-chlorotoluene           | 6.187 | 126  | 180592   | 51.00 | ug/L  | 97       |
| 103) 4-chlorotoluene           | 6.313 | 91   | 466031   | 47.90 | ug/L  | 99       |
| 104) 1,3,5-trimethylbenzene    | 6.219 | 105  | 566424   | 50.70 | ug/L  | 98       |
| 105) tert-butylbenzene         | 6.465 | 119  | 564061   | 56.88 | ug/L  | 100      |
| 106) 1,2,4-trimethylbenzene    | 6.523 | 105  | 559572   | 51.10 | ug/L  | 99       |
| 107) sec-butylbenzene          | 6.607 | 105  | 737538   | 51.00 | ug/L  | 99       |
| 108) 1,3-dichlorobenzene       | 6.769 | 146  | 365386   | 51.72 | ug/L  | 99       |
| 109) p-isopropyltoluene        | 6.722 | 119  | 640031   | 54.09 | ug/L  | 98       |
| 110) 1,4-dichlorobenzene       | 6.837 | 146  | 366653   | 51.90 | ug/L  | 99       |
| 111) 1,2-dichlorobenzene       | 7.152 | 146  | 337279   | 52.19 | ug/L  | 98       |
| 113) n-butylbenzene            | 7.042 | 92   | 304635   | 50.84 | ug/L  | 98       |
| 114) 1,2-dibromo-3-chloropr... | 7.723 | 157  | 66949    | 49.29 | ug/L  | 99       |
| 115) 1,3,5-trichlorobenzene    | 7.750 | 180  | 235531   | 49.56 | ug/L  | 100      |
| 116) 1,2,4-trichlorobenzene    | 8.190 | 180  | 194240   | 49.44 | ug/L  | 98       |
| 117) hexachlorobutadiene       | 8.180 | 225  | 93526    | 48.20 | ug/L  | 98       |
| 118) naphthalene               | 8.405 | 128  | 557710   | 50.30 | ug/L  | 100      |
| 119) 1,2,3-trichlorobenzene    | 8.526 | 180  | 190175   | 51.56 | ug/L  | 95       |
| 120) hexachloroethane          | 7.136 | 119  | 120500   | 55.57 | ug/L  | 94       |
| 121) benzyl chloride           | 7.026 | 126  | 75478    | 49.70 | ug/L  | 99       |
| 122) 2-methylnaphthalene       | 9.081 | 142  | 89203    | 24.80 | ug/L  | 99       |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VU2015\  
Data File : 2U49581.D  
Acq On : 28 Oct 2022 11:44 pm  
Operator : edwardd  
Sample : icv2015-50  
Misc : MS63374,V2U2015,5,,,,,1  
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Nov 02 12:35:40 2022  
Quant Method : C:\MSDCHEM\1\METHODS\M2U2015.M  
Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um  
QLast Update : Wed Nov 02 12:34:58 2022  
Response via : Initial Calibration



7.6.37

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VU2015\  
 Data File : 2U49583.D  
 Acq On : 29 Oct 2022 12:13 am  
 Operator : edwardd  
 Sample : icv2015-50  
 Misc : MS63374,V2U2015,5,,,,,1  
 ALS Vial : 29 Sample Multiplier: 1

Quant Time: Nov 01 17:26:14 2022  
 Quant Method : C:\MSDCHEM\1\METHODS\M2U2015.M  
 Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um  
 QLast Update : Mon Oct 31 14:55:54 2022  
 Response via : Initial Calibration

| Compound                      | R.T.           | QIon | Response   | Conc    | Units | Dev(Min) |
|-------------------------------|----------------|------|------------|---------|-------|----------|
| Internal Standards            |                |      |            |         |       |          |
| 1) tert butyl alcohol-d9      | 2.061          | 65   | 434001     | 500.00  | ug/L  | 0.00     |
| 5) pentafluorobenzene         | 2.999          | 168  | 495338     | 50.00   | ug/L  | 0.00     |
| 50) 1,4-difluorobenzene       | 3.293          | 114  | 672879     | 50.00   | ug/L  | 0.00     |
| 72) chlorobenzene-d5          | 5.091          | 117  | 638067     | 50.00   | ug/L  | 0.00     |
| 95) 1,4-dichlorobenzene-d4    | 6.827          | 152  | 316619     | 50.00   | ug/L  | 0.00     |
| System Monitoring Compounds   |                |      |            |         |       |          |
| 42) dibromofluoromethane (s)  | 2.779          | 113  | 245006     | 53.83   | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 75 - 127 |      | Recovery = | 107.66% |       |          |
| 51) 1,2-dichloroethane-d4 (s) | 3.052          | 65   | 269914     | 52.13   | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 75 - 130 |      | Recovery = | 104.26% |       |          |
| 73) toluene-d8 (s)            | 4.085          | 98   | 803815     | 53.32   | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 80 - 120 |      | Recovery = | 106.64% |       |          |
| 96) 4-bromofluorobenzene (s)  | 5.967          | 95   | 287588     | 55.01   | ug/L  | 0.00     |
| Spiked Amount 50.000          | Range 79 - 127 |      | Recovery = | 110.02% |       |          |
| Target Compounds              |                |      |            |         |       |          |
| 6) chlorodifluoromethane      | 1.086          | 51   | 155726     | 54.98   | ug/L  | 94       |
| 19) acetonitrile              | 2.192          | 41   | 224834     | 593.75  | ug/L  | 98       |
| 32) acrylonitrile             | 2.334          | 52   | 47013      | 54.49   | ug/L  | 100      |
| 78) tetrachloroethene         | 4.363          | 166  | 171630     | 46.32   | ug/L  | 96       |
| 112) 1,2,3-trimethylbenzene   | 6.858          | 105  | 530535     | 53.91   | ug/L  | 96       |

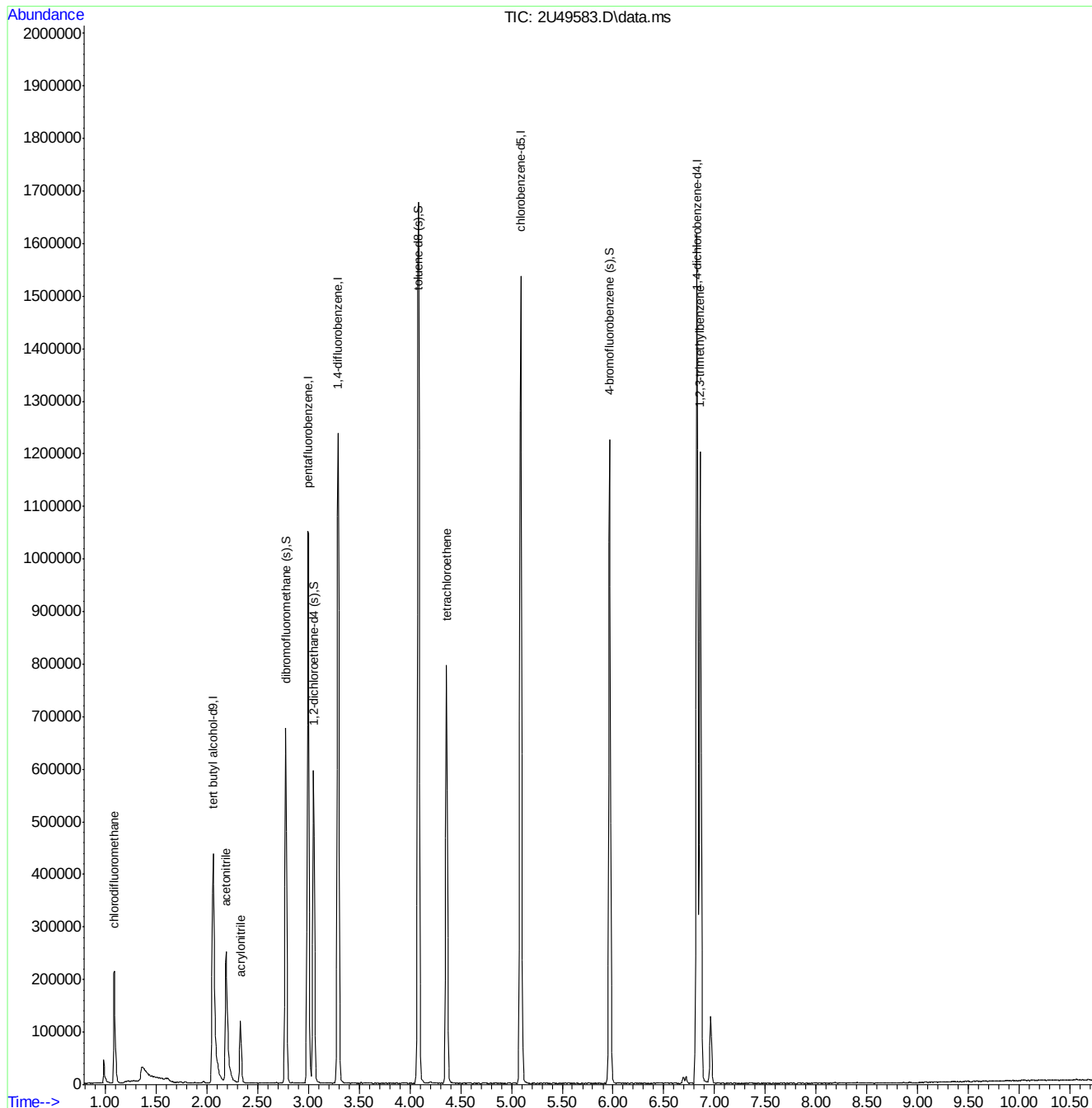
(#) = qualifier out of range (m) = manual integration (+) = signals summed



## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\VU2015\  
Data File : 2U49583.D  
Acq On : 29 Oct 2022 12:13 am  
Operator : edwardd  
Sample : icv2015-50  
Misc : MS63374,V2U2015,5,,,,,1  
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Nov 01 17:26:14 2022  
Quant Method : C:\MSDCHEM\1\METHODS\M2U2015.M  
Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um  
QLast Update : Mon Oct 31 14:55:54 2022  
Response via : Initial Calibration





## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\Angieg\November 2022\nov. 3, 2022\v2u2018\  
 Data File : 2u49689.d  
 Acq On : 1 Nov 2022 9:25 pm  
 Operator : edwardd  
 Sample : cc2015-50 Inst : GCMS-U  
 Misc : MS63577,V2U2018,5,,,1  
 ALS Vial : 52 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2U2015.M  
 Quant Results File: M2U2015.RES  
 Quant Time: Nov 03 00:41:15 2022  
 Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um  
 QLast Update : Wed Nov 02 12:34:58 2022  
 Response via : Initial Calibration

| Compound                   | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| Internal Standards         |       |      |          |        |       |          |
| 1) tert butyl alcohol-d9   | 2.061 | 65   | 347789   | 500.00 | ug/L  | 0.00     |
| 5) pentafluorobenzene      | 2.999 | 168  | 423954   | 50.00  | ug/L  | 0.00     |
| 50) 1,4-difluorobenzene    | 3.293 | 114  | 558898   | 50.00  | ug/L  | 0.00     |
| 72) chlorobenzene-d5       | 5.091 | 117  | 573130   | 50.00  | ug/L  | 0.00     |
| 95) 1,4-dichlorobenzene-d4 | 6.827 | 152  | 303787   | 50.00  | ug/L  | 0.00     |

|                               |        |       |          |          |      |         |
|-------------------------------|--------|-------|----------|----------|------|---------|
| System Monitoring Compounds   |        |       |          |          |      |         |
| 42) dibromofluoromethane (s)  | 2.774  | 113   | 192911   | 46.72    | ug/L | 0.00    |
| Spiked Amount                 | 50.000 | Range | 75 - 127 | Recovery | =    | 93.44%  |
| 51) 1,2-dichloroethane-d4 (s) | 3.052  | 65    | 228739   | 51.68    | ug/L | 0.00    |
| Spiked Amount                 | 50.000 | Range | 75 - 130 | Recovery | =    | 103.36% |
| 73) toluene-d8 (s)            | 4.085  | 98    | 669551   | 47.38    | ug/L | 0.00    |
| Spiked Amount                 | 50.000 | Range | 80 - 120 | Recovery | =    | 94.76%  |
| 96) 4-bromofluorobenzene (s)  | 5.967  | 95    | 257006   | 47.42    | ug/L | 0.00    |
| Spiked Amount                 | 50.000 | Range | 79 - 127 | Recovery | =    | 94.84%  |

|                              |       |     |        |         |           |
|------------------------------|-------|-----|--------|---------|-----------|
| Target Compounds             |       |     |        |         | Qvalue    |
| 2) ethanol                   | 1.657 | 45  | 155451 | 5088.66 | ug/L 99   |
| 3) tertiary butyl alcohol    | 2.092 | 59  | 109871 | 233.87  | ug/L 86   |
| 4) 1,4-dioxane               | 3.713 | 88  | 53455  | 1355.17 | ug/L 97   |
| 6) chlorodifluoromethane     | 1.086 | 51  | 122207 | 47.63   | ug/L 94   |
| 7) dichlorodifluoromethane   | 1.070 | 85  | 135275 | 36.69   | ug/L 98   |
| 8) chloromethane             | 1.170 | 50  | 111066 | 41.78   | ug/L 100  |
| 9) vinyl chloride            | 1.206 | 62  | 141240 | 45.70   | ug/L 98   |
| 10) 1,3-butadiene            | 1.212 | 39  | 103800 | 58.39   | ug/L 94   |
| 11) bromomethane             | 1.358 | 96  | 141544 | 55.44   | ug/L # 97 |
| 12) chloroethane             | 1.416 | 64  | 132214 | 53.03   | ug/L 99   |
| 13) trichlorofluoromethane   | 1.479 | 101 | 407043 | 53.81   | ug/L 99   |
| 14) ethyl ether              | 1.610 | 74  | 85052  | 52.62   | ug/L 97   |
| 15) acrolein                 | 1.851 | 56  | 24975  | 48.87   | ug/L 97   |
| 16) freon 113                | 1.720 | 151 | 126395 | 52.51   | ug/L 98   |
| 17) 1,1-dichloroethene       | 1.710 | 61  | 184451 | 51.64   | ug/L 99   |
| 18) acetone                  | 1.977 | 58  | 71996  | 211.17  | ug/L 96   |
| 19) acetonitrile             | 2.192 | 41  | 159000 | 479.21  | ug/L 98   |
| 20) iodomethane              | 1.783 | 142 | 99311  | 39.35   | ug/L 96   |
| 21) carbon disulfide         | 1.736 | 76  | 341517 | 51.85   | ug/L 97   |
| 22) methylene chloride       | 1.961 | 84  | 107303 | 46.55   | ug/L 95   |
| 23) methyl acetate           | 2.024 | 74  | 25510  | 47.25   | ug/L # 85 |
| 24) methyl tert butyl ether  | 2.071 | 73  | 314961 | 48.04   | ug/L 83   |
| 25) trans-1,2-dichloroethene | 2.035 | 61  | 150727 | 52.22   | ug/L 97   |
| 26) hexane                   | 2.066 | 57  | 225738 | 48.64   | ug/L 99   |
| 27) di-isopropyl ether       | 2.234 | 45  | 286087 | 48.08   | ug/L 99   |
| 28) ethyl tert-butyl ether   | 2.402 | 59  | 306831 | 49.49   | ug/L 96   |
| 29) 2-butanone               | 2.826 | 72  | 88195  | 203.67  | ug/L 92   |
| 30) 1,1-dichloroethane       | 2.313 | 63  | 202182 | 49.55   | ug/L 100  |
| 31) chloroprene              | 2.302 | 53  | 168008 | 51.30   | ug/L 99   |
| 32) acrylonitrile            | 2.334 | 52  | 37900  | 54.00   | ug/L 96   |
| 33) vinyl acetate            | 2.407 | 86  | 25181  | 50.65   | ug/L # 79 |
| 34) ethyl acetate            | 2.727 | 70  | 15172  | 49.74   | ug/L 99   |
| 35) 2,2-dichloropropane      | 2.622 | 77  | 177551 | 47.97   | ug/L 99   |
| 36) cis-1,2-dichloroethene   | 2.564 | 96  | 122052 | 46.70   | ug/L 98   |
| 37) propionitrile            | 2.984 | 54  | 219248 | 498.61  | ug/L 95   |
| 38) methyl acrylate          | 2.737 | 85  | 25647  | 51.07   | ug/L 99   |
| 39) bromochloromethane       | 2.664 | 128 | 57813  | 45.70   | ug/L 96   |
| 40) tetrahydrofuran          | 2.774 | 71  | 18736  | 46.80   | ug/L 94   |
| 41) chloroform               | 2.685 | 47  | 59997  | 48.17   | ug/L 97   |

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\Angieg\November 2022\nov. 3, 2022\v2u2018\  
 Data File : 2u49689.d  
 Acq On : 1 Nov 2022 9:25 pm  
 Operator : edwardd  
 Sample : cc2015-50 Inst : GCMS-U  
 Misc : MS63577,V2U2018,5,,,,,1  
 ALS Vial : 52 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2U2015.M  
 Quant Results File: M2U2015.RES  
 Quant Time: Nov 03 00:41:15 2022  
 Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um  
 QLast Update : Wed Nov 02 12:34:58 2022  
 Response via : Initial Calibration

| Compound                      | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|-------|------|----------|---------|-------|----------|
| 43) methacrylonitrile         | 2.999 | 67   | 60480    | 50.12   | ug/L  | 96       |
| 44) 1,1,1-trichloroethane     | 2.805 | 97   | 208592   | 49.22   | ug/L  | 98       |
| 45) cyclohexane               | 2.674 | 84   | 181853   | 51.20   | ug/L  | 90       |
| 46) 1,1-dichloropropene       | 2.863 | 75   | 162317   | 49.84   | ug/L  | 98       |
| 47) carbon tetrachloride      | 2.774 | 117  | 201123   | 46.79   | ug/L  | 98       |
| 48) isobutyl alcohol          | 3.026 | 43   | 156211   | 526.46  | ug/L  | 97       |
| 49) tert-amyl alcohol         | 3.104 | 55   | 38662    | 245.47  | ug/L  | 94       |
| 52) iso-octane                | 2.910 | 57   | 393872   | 50.09   | ug/L  | 97       |
| 53) benzene                   | 2.989 | 78   | 450920   | 50.82   | ug/L  | 99       |
| 54) tert-amyl methyl ether    | 3.026 | 73   | 323847   | 51.00   | ug/L  | 98       |
| 55) heptane                   | 2.952 | 57   | 66853    | 49.22   | ug/L  | 99       |
| 56) isopropyl acetate         | 3.183 | 87   | 31271    | 50.86   | ug/L  | 92       |
| 57) 1,2-dichloroethane        | 3.083 | 62   | 154080   | 49.53   | ug/L  | 96       |
| 58) n-butyl alcohol           | 3.419 | 56   | 247358   | 2442.85 | ug/L  | 99       |
| 59) ethyl acrylate            | 3.555 | 55   | 163555   | 49.26   | ug/L  | 100      |
| 60) trichloroethene           | 3.288 | 130  | 139129   | 50.53   | ug/L  | 97       |
| 61) 2-nitropropane            | 4.247 | 41   | 43409    | 49.53   | ug/L  | 92       |
| 62) 2-chloroethyl vinyl ether | 3.917 | 63   | 355606   | 265.30  | ug/L  | 99       |
| 63) methyl methacrylate       | 3.671 | 100  | 37842    | 52.52   | ug/L  | 93       |
| 64) 1,2-dichloropropane       | 3.571 | 63   | 105200   | 52.81   | ug/L  | 100      |
| 65) methylcyclohexane         | 3.293 | 55   | 136189   | 48.14   | ug/L  | 99       |
| 66) dibromomethane            | 3.519 | 93   | 85479    | 50.36   | ug/L  | 98       |
| 67) bromodichloromethane      | 3.602 | 83   | 170418   | 49.79   | ug/L  | 99       |
| 68) epichlorohydrin           | 4.111 | 57   | 83303    | 240.62  | ug/L  | 99       |
| 69) cis-1,3-dichloropropene   | 3.964 | 75   | 175127   | 50.01   | ug/L  | 94       |
| 70) 4-methyl-2-pentanone      | 4.336 | 58   | 223255   | 204.03  | ug/L  | 99       |
| 71) 3-methyl-1-butanol        | 4.190 | 70   | 102644   | 1005.53 | ug/L  | 98       |
| 74) toluene                   | 4.116 | 92   | 300758   | 49.62   | ug/L  | 98       |
| 75) ethyl methacrylate        | 4.452 | 69   | 154891   | 49.63   | ug/L  | 93       |
| 76) trans-1,3-dichloropropene | 4.363 | 75   | 177266   | 50.36   | ug/L  | 99       |
| 77) 1,1,2-trichloroethane     | 4.468 | 83   | 92651    | 47.77   | ug/L  | 99       |
| 78) tetrachloroethene         | 4.363 | 166  | 160328   | 50.92   | ug/L  | 94       |
| 79) 2-hexanone                | 4.882 | 58   | 247245   | 193.64  | ug/L  | 99       |
| 80) 1,3-dichloropropane       | 4.651 | 76   | 171447   | 48.36   | ug/L  | 99       |
| 81) butyl acetate             | 4.814 | 56   | 75723    | 47.34   | ug/L  | 100      |
| 82) dibromochloromethane      | 4.588 | 129  | 144576   | 47.08   | ug/L  | 99       |
| 83) 1,2-dibromoethane         | 4.751 | 107  | 128013   | 48.10   | ug/L  | 98       |
| 84) n-butyl ether             | 5.029 | 57   | 431536   | 50.67   | ug/L  | 99       |
| 85) chlorobenzene             | 5.102 | 112  | 361906   | 50.13   | ug/L  | 98       |
| 86) 1,1,1,2-tetrachloroethane | 5.144 | 131  | 133673   | 51.48   | ug/L  | 97       |
| 87) ethylbenzene              | 5.118 | 91   | 613762   | 49.61   | ug/L  | 97       |
| 88) m,p-xylene                | 5.223 | 106  | 479567   | 108.37  | ug/L  | 99       |
| 89) o-xylene                  | 5.527 | 106  | 221023   | 51.19   | ug/L  | 100      |
| 90) styrene                   | 5.563 | 104  | 372480   | 53.73   | ug/L  | 99       |
| 91) bromoform                 | 5.584 | 173  | 124927   | 51.59   | ug/L  | 99       |
| 92) butyl acrylate            | 5.652 | 55   | 218397   | 49.34   | ug/L  | 98       |
| 93) isopropylbenzene          | 5.757 | 105  | 620364   | 53.98   | ug/L  | 99       |
| 94) cis-1,4-dichloro-2-butene | 6.014 | 88   | 60746    | 42.39   | ug/L  | 96       |
| 97) bromobenzene              | 6.046 | 156  | 161450   | 46.90   | ug/L  | 96       |
| 98) 1,1,2,2-tetrachloroethane | 6.114 | 83   | 171591   | 46.33   | ug/L  | 98       |
| 99) trans-1,4-dichloro-2-b... | 6.250 | 53   | 38499    | 42.14   | ug/L  | 97       |
| 100) 1,2,3-trichloropropane   | 6.219 | 110  | 59444    | 48.99   | ug/L  | 98       |
| 101) n-propylbenzene          | 6.072 | 91   | 715162   | 50.68   | ug/L  | 99       |
| 102) 2-chlorotoluene          | 6.187 | 126  | 147587   | 48.78   | ug/L  | 96       |
| 103) 4-chlorotoluene          | 6.313 | 91   | 412259   | 49.59   | ug/L  | 98       |
| 104) 1,3,5-trimethylbenzene   | 6.219 | 105  | 498036   | 52.17   | ug/L  | 95       |
| 105) tert-butylbenzene        | 6.465 | 119  | 440156   | 51.94   | ug/L  | 94       |

## Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\Angieg\November 2022\nov. 3, 2022\v2u2018\  
 Data File : 2u49689.d  
 Acq On : 1 Nov 2022 9:25 pm  
 Operator : edwardd  
 Sample : cc2015-50 Inst : GCMS-U  
 Misc : MS63577,V2U2018,5,,,,,1  
 ALS Vial : 52 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\M2U2015.M  
 Quant Results File: M2U2015.RES  
 Quant Time: Nov 03 00:41:15 2022  
 Quant Title : SW-846 Method 8260d, column DB-624 60 m x 0.25 mm x 1.4 um  
 QLast Update : Wed Nov 02 12:34:58 2022  
 Response via : Initial Calibration

| Compound                       | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-------|-------|----------|
| 106) 1,2,4-trimethylbenzene    | 6.523 | 105  | 495310   | 52.93 | ug/L  | 99       |
| 107) sec-butylbenzene          | 6.607 | 105  | 648570   | 52.48 | ug/L  | 99       |
| 108) 1,3-dichlorobenzene       | 6.769 | 146  | 303553   | 50.28 | ug/L  | 99       |
| 109) p-isopropyltoluene        | 6.722 | 119  | 547841   | 54.18 | ug/L  | 99       |
| 110) 1,4-dichlorobenzene       | 6.837 | 146  | 307377   | 50.91 | ug/L  | 99       |
| 111) 1,2-dichlorobenzene       | 7.152 | 146  | 276562   | 50.08 | ug/L  | 98       |
| 112) 1,2,3-trimethylbenzene    | 6.858 | 105  | 499056   | 52.22 | ug/L  | 99       |
| 113) n-butylbenzene            | 7.042 | 92   | 278348   | 54.36 | ug/L  | 99       |
| 114) 1,2-dibromo-3-chloropr... | 7.723 | 157  | 52909    | 45.58 | ug/L  | 95       |
| 115) 1,3,5-trichlorobenzene    | 7.755 | 180  | 194514   | 47.89 | ug/L  | 99       |
| 116) 1,2,4-trichlorobenzene    | 8.190 | 180  | 154885   | 46.14 | ug/L  | 100      |
| 117) hexachlorobutadiene       | 8.180 | 225  | 74267    | 44.79 | ug/L  | 98       |
| 118) naphthalene               | 8.405 | 128  | 446985   | 47.17 | ug/L  | 100      |
| 119) 1,2,3-trichlorobenzene    | 8.526 | 180  | 152054   | 48.24 | ug/L  | 98       |
| 120) hexachloroethane          | 7.136 | 119  | 100600   | 54.29 | ug/L  | 97       |
| 121) benzyl chloride           | 7.026 | 126  | 69652    | 53.68 | ug/L  | 99       |
| 122) 2-methylnaphthalene       | 9.081 | 142  | 68711    | 22.36 | ug/L  | 98       |

(#) = qualifier out of range (m) = manual integration (+) = signals summed



GCMS Volatile Run Log

| Standard / Reagents              |                          | Lot #                   |                                |                                   |  | Column             |                             |
|----------------------------------|--------------------------|-------------------------|--------------------------------|-----------------------------------|--|--------------------|-----------------------------|
| Standards                        | ABK:V022-2752-121.57     | EC:V022-2756-1.4        | AA:V022-2752-125.39            | EXT PA: V022-2752-137.4           |  | Method             | RTX-VMS(20m x 0.18mm x 1um) |
| Standards Concentration          | 100-100,000PPM           | 100PPM                  | 100PPM                         | 100PPM                            |  | Init Calib Date    | v8260d<br>10/3/2022         |
| Expiration Date                  | 10/21/2022               | 10/19/2022              | 10/27/2022                     | 11/3/2022                         |  |                    |                             |
| Standards                        | EXT ABK: V022-2752-144.3 | EXT EC: V022-2752-147.4 | EXT Acrolein: V022-2752-128.11 | EXT Chlorodifluoromethane: 100PPM |  | Analysis Date      | 10/16/2022                  |
| Standards Concentration          | 100-100,000PPM           | 100PPM                  | 100PPM                         | 100PPM                            |  | Sequence loaded by | Prashant S                  |
| Expiration Date                  | 11/8/2022                | 10/18/2022              | 10/27/2022                     | 10/20/2022                        |  | Data processed by  | Bridget K                   |
| Internal/Surrogate               | V022-2752-136            |                         |                                |                                   |  | Batch ID           | V1K11                       |
| Internal/Surrogate Concentration | 50/500PPM                |                         |                                |                                   |  | Matrix             | AQ                          |
| Expiration Date                  | 10/30/2022               |                         |                                |                                   |  | Approved By:       | MOHUI                       |
| pH Paper Lot#(wide range):       |                          |                         | Initial Calibration Method     | M1K11                             |  | Approved Date:     | 10/28/2022 6:18:57 PM       |

| Data File |     | Sample ID | Bot # | Dil | Workgroup # | Test                   | Purge Vol (ml) | IS/Surr | pH | ALS # | Status | Comments             |
|-----------|-----|-----------|-------|-----|-------------|------------------------|----------------|---------|----|-------|--------|----------------------|
| 1K        | 254 | BFB       |       | NA  |             | AQ Initial Calibration | 5              |         |    | 1     | ok     | 4:49pm               |
| 2K        | 255 | BFB       |       | NA  |             | AQ Initial Calibration | 5              |         |    | 2     |        | 5:05pm               |
| 1K        | 256 | IC11-0.2  |       | NA  |             | AQ Initial Calibration | 5              |         |    | 3     | ok     | 2ul abk,ec,aa/1000ml |
| 2K        | 257 | IC11-0.2  |       | NA  |             | AQ Initial Calibration | 5              |         |    | 4     |        | 2ul abk,ec,aa/1000ml |
| 1K        | 258 | IC11-0.5  |       | NA  |             | AQ Initial Calibration | 5              |         |    | 5     | ok     | 5ul abk,ec,aa/1000ml |
| 2K        | 259 | IC11-0.5  |       | NA  |             | AQ Initial Calibration | 5              |         |    | 6     |        | 5ul abk,ec,aa/1000ml |
| 1K        | 260 | IC11-1    |       | NA  |             | AQ Initial Calibration | 5              |         |    | 7     | ok     | 1ul abk,ec,aa/100ml  |
| 2K        | 261 | IC11-1    |       | NA  |             | AQ Initial Calibration | 5              |         |    | 8     |        | 1ul abk,ec,aa/100ml  |
| 1K        | 262 | IC11-2    |       | NA  |             | AQ Initial Calibration | 5              |         |    | 9     | ok     | 2ul abk,ec,aa/100ml  |
| 2K        | 263 | IC11-2    |       | NA  |             | AQ Initial Calibration | 5              |         |    | 10    |        | 2ul abk,ec,aa/100ml  |
| 1K        | 264 | IC11-4    |       | NA  |             | AQ Initial Calibration | 5              |         |    | 11    | ok     | 4ul abk,ec,aa/100ml  |



| Data File | Sample ID | Bot # | Dil | Workgroup # | Test                   | Purge Vol (ml) | IS/Surr | pH | ALS # | Status | Comments                                 |
|-----------|-----------|-------|-----|-------------|------------------------|----------------|---------|----|-------|--------|------------------------------------------|
| 2K 265    | IC11-4    |       | NA  |             | AQ Initial Calibration | 5              |         |    | 12    |        | 4ul abk,ec,aa/100ml                      |
| 1K 266    | IC11-8    |       | NA  |             | AQ Initial Calibration | 5              |         |    | 13    | ok     | 8ul abk,ec,aa/100ml                      |
| 2K 267    | IC11-8    |       | NA  |             | AQ Initial Calibration | 5              |         |    | 14    |        | 8ul abk,ec,aa/100ml                      |
| 1K 268    | IC11-20   |       | NA  |             | AQ Initial Calibration | 5              |         |    | 15    | ok     | 20ul abk,ec,aa/100ml                     |
| 2K 269    | IC11-20   |       | NA  |             | AQ Initial Calibration | 5              |         |    | 16    |        | 20ul abk,ec,aa/100ml                     |
| 1K 270    | ICC11-50  |       | NA  |             | AQ Initial Calibration | 5              |         |    | 17    | ok     | 50ul abk,ec,aa/100ml                     |
| 2K 271    | ICC11-50  |       | NA  |             | AQ Initial Calibration | 5              |         |    | 18    |        | 50ul abk,ec,aa/100ml                     |
| 1K 272    | IC11-100  |       | NA  |             | AQ Initial Calibration | 5              |         |    | 19    | ok     | 100ul abk,ec,aa/100ml                    |
| 2K 273    | IC11-100  |       | NA  |             | AQ Initial Calibration | 5              |         |    | 20    |        | 100ul abk,ec,aa/100ml                    |
| 1K 274    | IC11-200  |       | NA  |             | AQ Initial Calibration | 5              |         |    | 21    | ok     | 200ul abk,ec,aa/100ml                    |
| 2K 275    | IC11-200  |       | NA  |             | AQ Initial Calibration | 5              |         |    | 22    |        | 200ul abk,ec,aa/100ml                    |
| 1K 276    | IB        |       | NA  |             |                        | 5              |         |    | 23    | ok     |                                          |
| 2K 277    | IB        |       | NA  |             |                        | 5              |         |    | 24    |        |                                          |
| 1K 278    | IB        |       | NA  |             |                        | 5              |         |    | 25    | ok     |                                          |
| 2K 279    | IB        |       | NA  |             |                        | 5              |         |    | 26    |        |                                          |
| 1K 280    | ICV11-50  |       | NA  |             | AQ Initial Calibration | 5              |         |    | 27    | ok     | 50ul EXT abk,ec,acrolein/100ml           |
| 2K 281    | ICV11-50  |       | NA  |             | AQ Initial Calibration | 5              |         |    | 28    |        | 50ul EXT PA, Chlorodifluoromethane/100ml |
| 1K 282    | ICV11-50  |       | NA  |             | AQ Initial Calibration | 5              |         |    | 29    | ok     | 50ul EXT abk,ec,acrolein/100ml           |
| 2K 283    | ICV11-50  |       | NA  |             | AQ Initial Calibration | 5              |         |    | 30    |        | 50ul EXT PA, Chlorodifluoromethane/100ml |



GCMS Volatile Run Log

| Standard / Reagents  |                     |                    | Lot #                      |       | Column             | RTX(20m x 0.18mm x 1um) |
|----------------------|---------------------|--------------------|----------------------------|-------|--------------------|-------------------------|
| Standards            | ABK: V022-2756-10.1 | EC: V022-2756-13.4 | AA: V022-2756-24.8         |       | Method             | v8260d                  |
| Concentration        | 100-100,000ppm      | 100ppm             | 100ppm                     |       | Init Calib Date    | 10/16/2022              |
| Expiration           | 11/18/2022          | 11/3/2022          | 11/27/2022                 |       |                    |                         |
| Internal/Surrogate   | V022-2756-27        |                    |                            |       |                    |                         |
| Concentration        | 50/500 ppm          |                    |                            |       | Analysis Date      | 11/2/2022               |
| Expiration           | 11/30/2022          |                    |                            |       | Sequence loaded by | taylor                  |
|                      |                     |                    |                            |       | Data processed by  | kinjald                 |
|                      |                     |                    |                            |       | Batch ID           | V1K38                   |
|                      |                     |                    |                            |       | Matrix             | AQ                      |
|                      |                     |                    |                            |       | Approved By:       | MOHUI                   |
| pH Paper Lot# 222221 | exp 8/1/2022        |                    | Initial Calibration Method | M1K11 | Approved Date:     | 11/3/2022 3:06:03 PM    |

| Data File | Sample ID   | Bot # | Dil | Workgroup # | Test | Purge Vol (ml) | IS/Surr | pH | ALS # | Status | Comments                           |
|-----------|-------------|-------|-----|-------------|------|----------------|---------|----|-------|--------|------------------------------------|
| 1K 1222   | IB          |       | NA  |             |      | 5              |         |    | 1     | ok     |                                    |
| 2K 1223   | IB          |       | NA  |             |      | 5              |         |    | 2     | ok     |                                    |
| 1K 1224   | BFB/CC11-20 |       | NA  |             |      | 5              |         |    | 3     | ok/ok  | 8:49am, 20 ul abk, aa, ec / 100 ml |
| 2K 1225   | BFB/CC11-20 |       | NA  |             |      | 5              |         |    | 4     | ok/ok  | 9:05am, 20 ul abk, aa, ec / 100 ml |
| 1K 1226   | CC11-1      |       | NA  |             |      | 5              |         |    | 5     | ok     | 1 ul abk, aa, ec / 100 ml          |
| 2K 1227   | CC11-1      |       | NA  |             |      | 5              |         |    | 6     | ok     | 1 ul abk, aa, ec / 100 ml          |
| 1K 1228   | BS          |       | NA  |             |      | 5              |         |    | 7     | ok     | 50 ul abk, aa, ec / 100 ml         |
| 2K 1229   | BS          |       | NA  |             |      | 5              |         |    | 8     | ok     | 50 ul abk, aa, ec / 100 ml         |
| 1K 1230   | IB          |       | NA  |             |      | 5              |         |    | 9     | ok     |                                    |
| 2K 1231   | MB          |       | NA  |             |      | 5              |         |    | 10    | ok     |                                    |
| 1K 1232   | MB          |       | NA  |             |      | 5              |         |    | 11    | ok     |                                    |

| Data File | Sample ID   | Bot # | Dil  | Workgroup # | Test          | Purge Vol (ml) | IS/Surr | pH | ALS # | Status | Comments                         |
|-----------|-------------|-------|------|-------------|---------------|----------------|---------|----|-------|--------|----------------------------------|
| 1K 1233   | JD54531-5   | 1     | NA   | MS63526     | V8260TBA      | 5              |         | 1  | 12    | ok     |                                  |
| 2K 1234   | JD54508-1   | 4     | 10x  | MS63532     | V8260BTXM     | 5/50           |         | 1  | 13    | ok     | +2A221388                        |
| 1K 1235   | JD54531-3   | 1     | 20x  | MS63526     | V8260BENZ     | 2.5/50         |         | 1  | 14    | ok     | +L348887                         |
| 2K 1236   | JD54518-2   | 2     | 10x  | MS63532     | V8260TCL20    | 5/50           |         | 1  | 15    | ok     | +L348994                         |
| 1K 1237   | JD54605-11  | 2     | NA   | MS63572     | V8260TCL11    | 5              |         | 1  | 16    | ok     |                                  |
| 2K 1238   | JD54640-1   | 3     | NA   | MS63593     | V8260BTXMT    | 5              |         | 1  | 17    | ok     |                                  |
| 1K 1239   | JD54605-4   | 2     | 50x  | MS63572     | V8260TCL11    | 1/50           |         | 1  | 18    | ok     | +2U49699                         |
| 2K 1240   | JD54640-2   | 3     | NA   | MS63593     | V8260BTXMT    | 5              |         | 1  | 19    | ok     |                                  |
| 1K 1241   | JD54511-8   | 3     | 100x | MS63521     | V8260BTXMT    | 0.5/50         |         | 1  | 20    | ok     | +2D205717                        |
| 2K 1242   | JD54640-3   | 3     | NA   | MS63593     | V8260BTXMT    | 5              |         | 1  | 21    | ok     |                                  |
| 1K 1243   | JD54511-14  | 3     | NA   | MS63521     | V8260BTXMT    | 5              |         | 1  | 22    | ok     |                                  |
| 2K 1244   | JD54511-1   | 2     | NA   | MS63521     | V8260BTXMT    | 5              |         | 1  | 23    | ok     |                                  |
| 1K 1245   | JD54511-2   | 2     | NA   | MS63521     | V8260BTXMT    | 5              |         | 1  | 22    | ok     |                                  |
| 2K 1246   | JD54511-4   | 3     | NA   | MS63521     | V8260BTXMT    | 5              |         | 1  | 23    | ok     |                                  |
| 1K 1247   | JD54356-1   | 1     | NA   | MS63458     | V8260NJTCL20+ | 5              |         | 1  | 24    | ok     |                                  |
| 2K 1248   | JD54440-2   | 4     | NA   | MS63498     | V82608010L    | 5              |         | 1  | 25    | ok     | report VC only                   |
| 1K 1249   | JD54511-4   | 3     | 20x  | MS63521     | V8260BTXMT    | 2.5/50         |         | 1  | 26    | ok     |                                  |
| 2K 1250   | JD54356-4   | 3     | NA   | MS63458     | V8260NJTCL20+ | 5              |         | 1  | 27    | ok     |                                  |
| 1K 1251   | JD54531-3MS | 1     | 20x  | MS63526     | V8260BENZ     | 2.5/50         |         | 1  | 28    | ok     | 25 ul abk, aa, ec / 50 ml        |
| 2K 1252   | JD54640-1MS | 2     | NA   | MS63593     | V8260BTXMT    | 5              |         | 1  | 29    | ok     | 20 ul abk, aa, ec / 40 ml sample |



| Data File |      | Sample ID    | Bot # | Dil | Workgroup # | Test       | Purge Vol (ml) | IS/Surr | pH | ALS # | Status | Comments                  |
|-----------|------|--------------|-------|-----|-------------|------------|----------------|---------|----|-------|--------|---------------------------|
| 1K        | 1253 | JD54531-3MSD | 1     | 20x | MS63526     | V8260BENZ  | 2.5/50         |         | 1  | 30    | ok     | 25 ul abk, aa, ec / 50 ml |
| 2K        | 1254 | IB           |       | NA  |             |            | 5              |         |    | 31    | ok     |                           |
| 1K        | 1255 | JD54640-11   | 1     | NA  | MS63593     | V8260BTXMT | 5              |         | 1  | 32    | ok     |                           |
| 2K        | 1256 | JD54640-2DUP | 2     | NA  | MS63593     | V8260BTXMT | 5              |         | 1  | 33    | ok     |                           |
| 1K        | 1257 | JD54640-12   | 2     | NA  | MS63593     | V8260BTXMT | 5              |         | 1  | 34    | ok     |                           |
| 2K        | 1258 | JD54606-1    | 4     | NA  | MS63573     | V8260PCE   | 5              |         | 1  | 35    | ok     |                           |
| 1K        | 1259 | JD54581-3    | 6     | NA  | MS63586     | V8260TCL20 | 5              |         | 1  | 36    | ok     | surr out                  |
| 2K        | 1260 | JD54640-4    | 2     | NA  | MS63593     | V8260BTXMT | 5              |         | 1  | 37    | ok     |                           |
| 1K        | 1261 | JD54581-4    | 2     | NA  | MS63586     | V8260TCL20 | 5              |         | 1  | 38    | ok     |                           |
| 2K        | 1262 | JD54640-5    | 2     | NA  | MS63593     | V8260BTXMT | 5              |         | 1  | 39    | rr     | surr out                  |
| 1K        | 1263 | JD54640-6    | 2     | NA  | MS63593     | V8260BTXMT | 5              |         | 1  | 40    | ok     |                           |
| 2K        | 1264 | JD54640-7    | 2     | NA  | MS63593     | V8260BTXMT | 5              |         | 1  | 41    | ok     |                           |
| 1K        | 1265 | JD54640-8    | 3     | NA  | MS63593     | V8260BTXMT | 5              |         | 1  | 42    | ok     | 8:18pm                    |
| 2K        | 1266 | JD54640-10   | 3     | NA  | MS63593     | V8260BTXMT | 5              |         | 1  | 43    | ok     | 8:34pm                    |

## GCMS Volatile Run Log

| Standard / Reagents             |                          | Lot #                  |                               |                                    | Column             |                         |
|---------------------------------|--------------------------|------------------------|-------------------------------|------------------------------------|--------------------|-------------------------|
| Standards                       | ABK V022-2756-10.9       | EC v022-2756-30.6      | AA v022-2756-24.3             | EXT PA: V022-2756-137.1            | Method             | Rxt-624(20mx0.18mmx1um) |
| Concentration                   | 100-10000ppm             | 100 ppm                | 100 ppm                       | 100 ppm                            | Init Calib Date    | v8260d<br>10/28/22      |
| Expiration                      | 11/19/2022               | 11/7/2022              | 11/27/22                      | 11/3/2022                          |                    |                         |
| Internal/Surrogate              | EXT ABK: V022-2752-144.3 | EXT EC: V022-2756-34.5 | EXT ACrolein: V022-2756-25.11 | EXT Chlorodifluoromethane: 100 ppm | Analysis Date      | 10/28/2022              |
| Concentration                   | 100-10000ppm             | 100 ppm                | 100 ppm                       | 100 ppm                            | Sequence loaded by | Prashant S              |
| Expiration                      | 11/8/2022                | 11/10/2022             | 11/27/2022                    | 11/24/2022                         | Data processed by  | Bridget K               |
| Internal/Surrogate              | v022-2756-27             |                        |                               |                                    | Batch ID           | V1U2015                 |
| Concentration                   | 50/500ppm                |                        |                               |                                    | Matrix             | AQ                      |
| Expiration                      | 11/30/2022               |                        |                               |                                    | Approved By:       | KANYAV                  |
| pH Paper Lot#222221 exp. 8/1/24 |                          |                        | Initial Calibration Method    | M1U2015                            | Approved Date:     | 11/11/2022 4:21:40 PM   |

| Data File | Sample ID  | Bot # | Dil | Workgroup # | Test                  | Purge Vol (ml) | IS/Surr | pH | ALS # | Status | Comments                |
|-----------|------------|-------|-----|-------------|-----------------------|----------------|---------|----|-------|--------|-------------------------|
| 1U 49554  | BFB        |       | NA  |             |                       | 5              |         |    | 1     | ok     | 5:04pm                  |
| 1U 49556  | IC2015-0.2 |       | NA  |             | AQ Initial Caibration | 5              |         |    | 2     | ok     | 2ul abk, ec, aa/1000ml  |
| 1U 49558  | IC2015-0.5 |       | NA  |             | AQ Initial Caibration | 5              |         |    | 3     | ok     | 5ul abk, ec, aa/1000ml  |
| 1U 49560  | IC2015-1   |       | NA  |             | AQ Initial Caibration | 5              |         |    | 4     | ok     | 1ul abk, ec, aa/100ml   |
| 1U 49562  | IC2015-2   |       | NA  |             | AQ Initial Caibration | 5              |         |    | 5     | ok     | 2ul abk, ec, aa/100ml   |
| 1U 49564  | IC2015-4   |       | NA  |             | AQ Initial Caibration | 5              |         |    | 6     | ok     | 4ul abk, ec, aa/100ml   |
| 1U 49566  | IC2015-8   |       | NA  |             | AQ Initial Caibration | 5              |         |    | 7     | ok     | 8ul abk, ec, aa/100ml   |
| 1U 49568  | IC2015-20  |       | NA  |             | AQ Initial Caibration | 5              |         |    | 8     | ok     | 20ul abk, ec, aa/100ml  |
| 1U 49570  | ICC2015-50 |       | NA  |             | AQ Initial Caibration | 5              |         |    | 9     | ok     | 50ul abk, ec, aa/100ml  |
| 1U 49572  | IC2015-100 |       | NA  |             | AQ Initial Caibration | 5              |         |    | 10    | ok     | 100ul abk, ec, aa/100ml |
| 1U 49574  | IC2015-200 |       | NA  |             | AQ Initial Caibration | 5              |         |    | 11    | ok     | 200ul abk, ec, aa/100ml |
| OR048-01  |            |       |     |             |                       |                |         |    |       |        |                         |

| Data File | Sample ID  | Bot # | Dil | Workgroup # | Test                  | Purge Vol (ml) | IS/Surr | pH | ALS # | Status | Comments                                |
|-----------|------------|-------|-----|-------------|-----------------------|----------------|---------|----|-------|--------|-----------------------------------------|
| 1U 49576  | IB         |       | NA  |             |                       | 5              |         |    | 12    |        |                                         |
| 1U 49578  | IB         |       | NA  |             |                       | 5              |         |    | 13    |        |                                         |
| 1U 49580  | ICV2015-50 |       | NA  |             | AQ Initial Caibration | 5              |         |    | 14    | ok     | 50ul EXT abk,ec,acrolein/100ml          |
| 1U 49582  | ICV2015-50 |       | NA  |             | AQ Initial Caibration | 5              |         |    | 15    | ok     | 50ul EXT PA, Chlorodifluoromethan/100ml |

GCMS Volatile Run Log

| Standard / Reagents             |                     | Lot #             |                            |         | Column             |                         |
|---------------------------------|---------------------|-------------------|----------------------------|---------|--------------------|-------------------------|
| Standards                       | ABK V022-2756-10.16 | EC v022-2756-30.6 | AA v022-2756-24.3          |         | Method             | Rxt-624(20mx0.18mmx1um) |
| Concentration                   | 100-10000ppm        | 100 ppm           | 100 ppm                    |         | Init Calib Date    | v8260d<br>8/30/22       |
| Expiration                      | 11/19/22            | 11/7/2022         | 11/27/22                   |         |                    |                         |
| Internal/Surrogate              | v022-2756-27        |                   |                            |         |                    |                         |
| Concentration                   | 50/500ppm           |                   |                            |         | Analysis Date      | 11/1/2022               |
| Expiration                      | 10/30/2022          |                   |                            |         | Sequence loaded by | Edward Dumer            |
|                                 |                     |                   |                            |         | Data processed by  | angleg                  |
|                                 |                     |                   |                            |         | Batch ID           | V1U2018                 |
|                                 |                     |                   |                            |         | Matrix             | AQ                      |
|                                 |                     |                   |                            |         | Approved By:       | KANYAV                  |
| pH Paper Lot#222221 exp. 8/1/24 |                     |                   | Initial Calibration Method | M1U2015 | Approved Date:     | 11/10/2022 4:25:31 PM   |

| Data File | Sample ID     | Bot # | Dil | Workgroup # | Test                      | Purge Vol (ml) | IS/Surr | pH | ALS # | Status | Comments                       |
|-----------|---------------|-------|-----|-------------|---------------------------|----------------|---------|----|-------|--------|--------------------------------|
| 1U 49688  | BFB/CC2015-50 |       | NA  |             |                           | 5              |         |    | 1     | ok/ok  | 50ul abk,ec,aa/100ml; 9:11pm   |
| 1U 49690  | CC2015-1      |       | NA  |             |                           | 5              |         |    | 2     | ok     | 1ul abk,ec,aa/100ml            |
| 1U 49692  | BS            |       | NA  |             |                           | 5              |         |    | 3     | ok     | 50ul abk,ec,aa/100ml           |
| 1U 49694  | IB            |       | NA  |             |                           | 5              |         |    | 4     | ok     |                                |
| 1U 49696  | MB            |       | NA  |             |                           | 5              |         |    | 5     | ok     |                                |
| 1U 49698  | JD54605-11    | 1     | NA  | MS63572     | V8260TCL11                | 5              |         | 1  | 6     | rr     | rr cc hit                      |
| 1U 49700  | JD54605-5     | 1     | 10  | MS63572     | V8260TCL11                | 5/50           |         | 1  | 7     | ok     |                                |
| 1U 49702  | JD54605-5MS   | 1     | 10  | MS63572     | V8260TCL11                | 5/50           |         | 1  | 8     | ok     | 25ul abk,ec,aa,5ml sample/50ml |
| 1U 49704  | JD54605-5MSD  | 1     | 10  | MS63572     | V8260TCL11                | 5/50           |         | 1  | 9     | ok     | 25ul abk,ec,aa,5ml sample/50ml |
| 1U 49706  | JD54605-9     | 1     | 10  | MS63572     | V8260TCL11                | 5/50           |         | 1  | 10    | ok     | +2U                            |
| 1U 49708  | JD54632-14    | 1     | NA  | MS63577     | V8260TCL20+,14DIO<br>XANE | 5              |         | 1  | 11    | rr     | rr cc hit                      |
| OR048-01  |               |       |     |             |                           |                |         |    |       |        |                                |



| Data File | Sample ID  | Bot # | Dil | Workgroup # | Test                      | Purge Vol (ml) | IS/Surr | pH | ALS # | Status | Comments       |
|-----------|------------|-------|-----|-------------|---------------------------|----------------|---------|----|-------|--------|----------------|
| 1U 49710  | JD54632-2  | 2     | NA  | MS63577     | V8260TCL20+,14DIO<br>XANE | 5              |         | 1  | 12    | rr     | rr cc hit      |
| 1U 49712  | JD54632-4  | 1     | NA  | MS63577     | V8260TCL20+,14DIO<br>XANE | 5              |         | 1  | 13    | rr     | rr cc hit      |
| 1U 49714  | JD54632-6  | 2     | NA  | MS63577     | V8260TCL20+,14DIO<br>XANE | 5              |         | 1  | 14    | rr     | rr cc hit      |
| 1U 49716  | JD54632-8  | 1     | NA  | MS63577     | V8260TCL20+,14DIO<br>XANE | 5              |         | 1  | 15    | rr     | rr cc hit      |
| 1U 49718  | JD54632-10 | 2     | NA  | MS63577     | V8260TCL20+,14DIO<br>XANE | 5              |         | 1  | 16    | rr     | rr cc hit      |
| 1U 49720  | JD54632-12 | 1     | NA  | MS63577     | V8260TCL20+,14DIO<br>XANE | 5              |         | 1  | 17    | rr     | rr cc hit      |
| 1U 49722  | JD54605-2  | 2     | NA  | MS63572     | V8260TCL11                | 5              |         | 1  | 18    | ok     |                |
| 1U 49724  | JD54605-6  | 2     | NA  | MS63572     | V8260TCL11                | 5              |         | 1  | 19    | ok     |                |
| 1U 49726  | JD54605-8  | 2     | NA  | MS63572     | V8260TCL11                | 5              |         | 1  | 20    | ok     |                |
| 1U 49728  | JD54399-2  | 1     | NA  | MS63462     | V8260TCL20+,TBA           | 5              |         | 1  | 21    | rr     | rr cc hit      |
| 1U 49730  | JD54399-4  | 1     | NA  | MS63462     | V8260TCL20+,TBA           | 5              |         | 1  | 22    | ok     |                |
| 1U 49732  | JD54399-6  | 1     | 4   | MS63462     | V8260TCL20+,TBA           | 12.5/50        |         | 1  | 23    | rr     | rr o/d; 7:50am |

GCMS Volatile Run Log

| Standard / Reagents             |                          | Lot #                  |                               |                                    | Column             |                         |
|---------------------------------|--------------------------|------------------------|-------------------------------|------------------------------------|--------------------|-------------------------|
| Standards                       | ABK V022-2756-10.9       | EC v022-2756-30.6      | AA v022-2756-24.3             | EXT PA: V022-2756-137.1            | Method             | Rxt-624(20mx0.18mmx1um) |
| Concentration                   | 100-10000ppm             | 100 ppm                | 100 ppm                       | 100 ppm                            | Init Calib Date    | v8260d<br>10/28/22      |
| Expiration                      | 11/19/2022               | 11/7/2022              | 11/27/22                      | 11/3/2022                          |                    |                         |
| Internal/Surrogate              | EXT ABK: V022-2752-144.3 | EXT EC: V022-2756-34.5 | EXT ACrolein: V022-2756-25.11 | EXT Chlorodifluoromethane: 100 ppm | Analysis Date      | 10/28/2022              |
| Concentration                   | 100-10000ppm             | 100 ppm                | 100 ppm                       | 100 ppm                            | Sequence loaded by | Prashant S              |
| Expiration                      | 11/8/2022                | 11/10/2022             | 11/27/2022                    | 11/24/2022                         | Data processed by  | Bridget K               |
| Internal/Surrogate              | v022-2756-27             |                        |                               |                                    | Batch ID           | V2U2015                 |
| Concentration                   | 50/500ppm                |                        |                               |                                    | Matrix             | AQ                      |
| Expiration                      | 11/30/2022               |                        |                               |                                    | Approved By:       | KANYAV                  |
| pH Paper Lot#222221 exp. 8/1/24 |                          |                        | Initial Calibration Method    | M2U2015                            | Approved Date:     | 11/11/2022 4:24:18 PM   |

| Data File | Sample ID  | Bot # | Dil | Workgroup # | Test                  | Purge Vol (ml) | IS/Surr | pH | ALS # | Status | Comments                |
|-----------|------------|-------|-----|-------------|-----------------------|----------------|---------|----|-------|--------|-------------------------|
| 1U 49555  | BFB        |       | NA  |             |                       | 5              |         |    | 1     | ok     | 5:19pm                  |
| 1U 49557  | IC2015-0.2 |       | NA  |             | AQ Initial Caibration | 5              |         |    | 2     | ok     | 2ul abk, ec, aa/1000ml  |
| 1U 49559  | IC2015-0.5 |       | NA  |             | AQ Initial Caibration | 5              |         |    | 3     | ok     | 5ul abk, ec, aa/1000ml  |
| 1U 49561  | IC2015-1   |       | NA  |             | AQ Initial Caibration | 5              |         |    | 4     | ok     | 1ul abk, ec, aa/100ml   |
| 1U 49563  | IC2015-2   |       | NA  |             | AQ Initial Caibration | 5              |         |    | 5     | ok     | 2ul abk, ec, aa/100ml   |
| 1U 49565  | IC2015-4   |       | NA  |             | AQ Initial Caibration | 5              |         |    | 6     | ok     | 4ul abk, ec, aa/100ml   |
| 1U 49567  | IC2015-8   |       | NA  |             | AQ Initial Caibration | 5              |         |    | 7     | ok     | 8ul abk, ec, aa/100ml   |
| 1U 49569  | IC2015-20  |       | NA  |             | AQ Initial Caibration | 5              |         |    | 8     | ok     | 20ul abk, ec, aa/100ml  |
| 1U 49571  | ICC2015-50 |       | NA  |             | AQ Initial Caibration | 5              |         |    | 9     | ok     | 50ul abk, ec, aa/100ml  |
| 1U 49573  | IC2015-100 |       | NA  |             | AQ Initial Caibration | 5              |         |    | 10    | ok     | 100ul abk, ec, aa/100ml |
| 1U 49575  | IC2015-200 |       | NA  |             | AQ Initial Caibration | 5              |         |    | 11    | ok     | 200ul abk, ec, aa/100ml |

| Data File | Sample ID  | Bot # | Dil | Workgroup # | Test                  | Purge Vol (ml) | IS/Surr | pH | ALS # | Status | Comments                                |
|-----------|------------|-------|-----|-------------|-----------------------|----------------|---------|----|-------|--------|-----------------------------------------|
| 1U 49577  | IB         |       | NA  |             |                       | 5              |         |    | 12    |        |                                         |
| 1U 49579  | IB         |       | NA  |             |                       | 5              |         |    | 13    |        |                                         |
| 1U 49581  | ICV2015-50 |       | NA  |             | AQ Initial Caibration | 5              |         |    | 14    | ok     | 50ul EXT abk,ec,acrolein/100ml          |
| 1U 49583  | ICV2015-50 |       | NA  |             | AQ Initial Caibration | 5              |         |    | 15    | ok     | 50ul EXT PA, Chlorodifluoromethan/100ml |

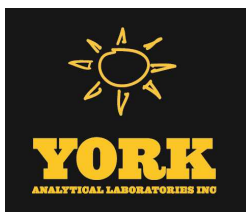
GCMS Volatile Run Log

| Standard / Reagents             |                     | Lot #             |                            |         | Column             | Rxi-624(20mx0.18mmx1um) |
|---------------------------------|---------------------|-------------------|----------------------------|---------|--------------------|-------------------------|
| Standards                       | ABK V022-2756-10.34 | EC v022-2756-30.2 | AA v022-2756-24.12         |         | Method             | v8260d                  |
| Concentration                   | 100-10000ppm        | 100 ppm           | 100 ppm                    |         | Init Calib Date    | 10/31/22                |
| Expiration                      | 11/18/22            | 11/7/22           | 11/27/22                   |         |                    |                         |
| Internal/Surrogate              | v022-2756-27        |                   |                            |         |                    |                         |
| Concentration                   | 50/500ppm           |                   |                            |         | Analysis Date      | 11/1/2022               |
| Expiration                      | 11/30/22            |                   |                            |         | Sequence loaded by | Edward Dumer            |
|                                 |                     |                   |                            |         | Data processed by  | angleg                  |
|                                 |                     |                   |                            |         | Batch ID           | V2U2018                 |
|                                 |                     |                   |                            |         | Matrix             | AQ                      |
|                                 |                     |                   |                            |         | Approved By:       | MOHUI                   |
| pH Paper Lot#222221 exp. 8/1/24 |                     |                   | Initial Calibration Method | M1U2015 | Approved Date:     | 11/3/2022 4:12:33 PM    |

| Data File | Sample ID     | Bot # | Dil | Workgroup # | Test                    | Purge Vol (ml) | IS/Surr | pH | ALS # | Status | Comments                             |
|-----------|---------------|-------|-----|-------------|-------------------------|----------------|---------|----|-------|--------|--------------------------------------|
| 2U 49689  | BFB/CC2015-50 |       | NA  |             |                         | 5              |         |    | 1     | ok/ok  | 50ul abk, ec, aa/100ml; 9:25pm       |
| 2U 49691  | CC2015-1      |       | NA  |             |                         | 5              |         |    | 2     | ok     | 1ul abk, ec, aa/100ml                |
| 2U 49693  | BS            |       | NA  |             |                         | 5              |         |    | 3     | ok     | 50ul abk, ec, aa/100ml               |
| 2U 49695  | MB            |       | NA  |             |                         | 5              |         |    | 4     | ok     |                                      |
| 2U 49697  | JD54605-10    | 2     | NA  | MS63572     | V8260TCL11              | 5              |         | 1  | 5     | ok     |                                      |
| 2U 49699  | JD54605-4     | 1     | 4   | MS63572     | V8260TCL11              | 12.5/50        |         | 1  | 6     | ok/rr  | f/d                                  |
| 2U 49701  | JD54605-9     | 1     | NA  | MS63572     | V8260TCL11              | 5              |         | 1  | 7     | ok/rr  | f/d                                  |
| 2U 49703  | JD54605-4MS   | 1     | 4   | MS63572     | V8260TCL11              | 12.5/50        |         | 1  | 8     | ok     | 25ul abk, ec, aa, 12.5ml sample/50ml |
| 2U 49705  | JD54605-4MSD  | 1     | 4   | MS63572     | V8260TCL11              | 12.5/50        |         | 1  | 9     | ok     | 25ul abk, ec, aa, 12.5ml sample/50ml |
| 2U 49707  | JD54632-13    | 2     | NA  | MS63577     | V8260TCL20+, 14DIO XANE | 5              |         | 1  | 10    | ok     |                                      |
| 2U 49709  | JD54632-1     | 1     | NA  | MS63577     | V8260TCL20+, 14DIO XANE | 5              |         | 1  | 11    | ok     |                                      |



| Data File | Sample ID  | Bot # | Dil | Workgroup # | Test                      | Purge Vol (ml) | IS/Surr | pH | ALS # | Status | Comments       |
|-----------|------------|-------|-----|-------------|---------------------------|----------------|---------|----|-------|--------|----------------|
| 2U 49711  | JD54632-3  | 1     | NA  | MS63577     | V8260TCL20+,14DIO<br>XANE | 5              |         | 1  | 12    | ok     |                |
| 2U 49713  | JD54632-5  | 2     | NA  | MS63577     | V8260TCL20+,14DIO<br>XANE | 5              |         | 1  | 13    | ok     |                |
| 2U 49715  | JD54632-7  | 2     | NA  | MS63577     | V8260TCL20+,14DIO<br>XANE | 5              |         | 1  | 14    | ok     |                |
| 2U 49717  | JD54632-9  | 1     | NA  | MS63577     | V8260TCL20+,14DIO<br>XANE | 5              |         | 1  | 15    | ok     |                |
| 2U 49719  | JD54632-11 | 1     | NA  | MS63577     | V8260TCL20+,14DIO<br>XANE | 5              |         | 1  | 16    | ok     |                |
| 2U 49721  | JD54605-1  | 1     | NA  | MS63572     | V8260TCL11                | 5              |         | 1  | 17    | ok     |                |
| 2U 49723  | JD54605-3  | 1     | NA  | MS63572     | V8260TCL11                | 5              |         | 1  | 18    | ok     |                |
| 2U 49725  | JD54605-7  | 1     | NA  | MS63572     | V8260TCL11                | 5              |         | 1  | 19    | ok     |                |
| 2U 49727  | JD54399-1  | 1     | NA  | MS63462     | V8260TCL20+,TBA           | 5              |         | 1  | 20    | ok     |                |
| 2U 49729  | JD54399-3  | 1     | NA  | MS63462     | V8260TCL20+,TBA           | 5              |         | 1  | 21    | ok     |                |
| 2U 49731  | JD54399-5  | 1     | NA  | MS63462     | V8260TCL20+,TBA           | 5              |         | 1  | 22    | ok     |                |
| 2U 49733  | JD54399-7  | 1     | 20  | MS63462     | V8260TCL20+,TBA           | 2.5/50         |         | 1  | 23    | rr     | rr o/d; 8:05am |



# Technical Report

prepared for:

**Fleming-Lee Shue, Inc.**  
158 West 29th Street  
New York NY, 10001  
**Attention: Joel Kane**

Report Date: 01/30/2023  
**Client Project ID: ITHS SSDS Sampling 100012-006-04**  
York Project (SDG) No.: 23A1083

CT Cert. No. PH-0723

New Jersey Cert. No. CT005 and NY037



New York Cert. Nos. 10854 and 12058

PA Cert. No. 68-04440

120 RESEARCH DRIVE  
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(203) 325-1371



132-02 89th AVENUE  
FAX (203) 357-0166

RICHMOND HILL, NY 11418  
[ClientServices@yorklab.com](mailto:ClientServices@yorklab.com)

**Fleming-Lee Shue, Inc.**  
158 West 29th Street  
New York NY, 10001  
Attention: Joel Kane

## Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on January 23, 2023 and listed below. The project was identified as your project: **ITHS SSDS Sampling 100012-006-04**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

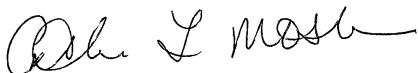
The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

| <u>York Sample ID</u> | <u>Client Sample ID</u> | <u>Matrix</u> | <u>Date Collected</u> | <u>Date Received</u> |
|-----------------------|-------------------------|---------------|-----------------------|----------------------|
| 23A1083-01            | EFF-1                   | Soil Vapor    | 01/23/2023            | 01/23/2023           |

## General Notes for York Project (SDG) No.: 23A1083

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By: 

Cassie L. Mosher  
Laboratory Manager

Date: 01/30/2023





## Sample Information

**Client Sample ID:** EFF-1

**York Sample ID:** 23A1083-01

**York Project (SDG) No.**

**Client Project ID**

**Matrix**

**Collection Date/Time**

**Date Received**

23A1083

ITHS SSDS Sampling 100012-006-04

Soil Vapor

January 23, 2023 9:54 am

01/23/2023

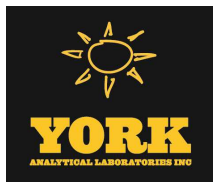
### VOA, TO15 MASTER

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

| CAS No.  | Parameter                                         | Result       | Flag       | Units             | Reported to LOQ | Dilution | Reference Method                                        | Date/Time Prepared | Date/Time Analyzed | Analyst |
|----------|---------------------------------------------------|--------------|------------|-------------------|-----------------|----------|---------------------------------------------------------|--------------------|--------------------|---------|
| 630-20-6 | * 1,1,1,2-Tetrachloroethane                       | ND           |            | ug/m <sup>3</sup> | 1.32            | 1.927    | EPA TO-15<br>Certifications:                            | 01/26/2023 09:00   | 01/28/2023 10:06   | VH      |
| 71-55-6  | 1,1,1-Trichloroethane                             | ND           |            | ug/m <sup>3</sup> | 1.05            | 1.927    | EPA TO-15<br>Certifications: NELAC-NY12058,NJDEP-Queens | 01/26/2023 09:00   | 01/28/2023 10:06   | VH      |
| 79-34-5  | 1,1,2,2-Tetrachloroethane                         | ND           |            | ug/m <sup>3</sup> | 1.32            | 1.927    | EPA TO-15<br>Certifications: NELAC-NY12058,NJDEP-Queens | 01/26/2023 09:00   | 01/28/2023 10:06   | VH      |
| 76-13-1  | 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | ND           |            | ug/m <sup>3</sup> | 1.48            | 1.927    | EPA TO-15<br>Certifications: NELAC-NY12058,NJDEP-Queens | 01/26/2023 09:00   | 01/28/2023 10:06   | VH      |
| 79-00-5  | 1,1,2-Trichloroethane                             | ND           |            | ug/m <sup>3</sup> | 1.05            | 1.927    | EPA TO-15<br>Certifications: NELAC-NY12058,NJDEP-Queens | 01/26/2023 09:00   | 01/28/2023 10:06   | VH      |
| 75-34-3  | 1,1-Dichloroethane                                | ND           |            | ug/m <sup>3</sup> | 0.780           | 1.927    | EPA TO-15<br>Certifications: NELAC-NY12058,NJDEP-Queens | 01/26/2023 09:00   | 01/28/2023 10:06   | VH      |
| 75-35-4  | 1,1-Dichloroethylene                              | ND           |            | ug/m <sup>3</sup> | 0.382           | 1.927    | EPA TO-15<br>Certifications: NELAC-NY12058,NJDEP-Queens | 01/26/2023 09:00   | 01/28/2023 10:06   | VH      |
| 120-82-1 | 1,2,4-Trichlorobenzene                            | ND           | TO-CC<br>V | ug/m <sup>3</sup> | 2.86            | 1.927    | EPA TO-15<br>Certifications: NELAC-NY12058,NJDEP-Queens | 01/26/2023 09:00   | 01/28/2023 10:06   | VH      |
| 95-63-6  | 1,2,4-Trimethylbenzene                            | ND           |            | ug/m <sup>3</sup> | 0.947           | 1.927    | EPA TO-15<br>Certifications: NELAC-NY12058,NJDEP-Queens | 01/26/2023 09:00   | 01/28/2023 10:06   | VH      |
| 106-93-4 | 1,2-Dibromoethane                                 | ND           |            | ug/m <sup>3</sup> | 1.48            | 1.927    | EPA TO-15<br>Certifications: NELAC-NY12058,NJDEP-Queens | 01/26/2023 09:00   | 01/28/2023 10:06   | VH      |
| 95-50-1  | 1,2-Dichlorobenzene                               | ND           |            | ug/m <sup>3</sup> | 1.16            | 1.927    | EPA TO-15<br>Certifications: NELAC-NY12058,NJDEP-Queens | 01/26/2023 09:00   | 01/28/2023 10:06   | VH      |
| 107-06-2 | 1,2-Dichloroethane                                | ND           |            | ug/m <sup>3</sup> | 0.780           | 1.927    | EPA TO-15<br>Certifications: NELAC-NY12058,NJDEP-Queens | 01/26/2023 09:00   | 01/28/2023 10:06   | VH      |
| 78-87-5  | 1,2-Dichloropropane                               | ND           |            | ug/m <sup>3</sup> | 0.890           | 1.927    | EPA TO-15<br>Certifications: NELAC-NY12058,NJDEP-Queens | 01/26/2023 09:00   | 01/28/2023 10:06   | VH      |
| 76-14-2  | 1,2-Dichlorotetrafluoroethane                     | ND           |            | ug/m <sup>3</sup> | 1.35            | 1.927    | EPA TO-15<br>Certifications: NELAC-NY12058,NJDEP-Queens | 01/26/2023 09:00   | 01/28/2023 10:06   | VH      |
| 108-67-8 | 1,3,5-Trimethylbenzene                            | ND           |            | ug/m <sup>3</sup> | 0.947           | 1.927    | EPA TO-15<br>Certifications: NELAC-NY12058,NJDEP-Queens | 01/26/2023 09:00   | 01/28/2023 10:06   | VH      |
| 106-99-0 | 1,3-Butadiene                                     | ND           |            | ug/m <sup>3</sup> | 1.28            | 1.927    | EPA TO-15<br>Certifications: NELAC-NY12058,NJDEP-Queens | 01/26/2023 09:00   | 01/28/2023 10:06   | VH      |
| 541-73-1 | 1,3-Dichlorobenzene                               | ND           |            | ug/m <sup>3</sup> | 1.16            | 1.927    | EPA TO-15<br>Certifications: NELAC-NY12058,NJDEP-Queens | 01/26/2023 09:00   | 01/28/2023 10:06   | VH      |
| 142-28-9 | * 1,3-Dichloropropane                             | ND           |            | ug/m <sup>3</sup> | 0.891           | 1.927    | EPA TO-15<br>Certifications:                            | 01/26/2023 09:00   | 01/28/2023 10:06   | VH      |
| 106-46-7 | 1,4-Dichlorobenzene                               | ND           |            | ug/m <sup>3</sup> | 1.16            | 1.927    | EPA TO-15<br>Certifications: NELAC-NY12058,NJDEP-Queens | 01/26/2023 09:00   | 01/28/2023 10:06   | VH      |
| 123-91-1 | 1,4-Dioxane                                       | ND           |            | ug/m <sup>3</sup> | 1.39            | 1.927    | EPA TO-15<br>Certifications: NELAC-NY12058,NJDEP-Queens | 01/26/2023 09:00   | 01/28/2023 10:06   | VH      |
| 78-93-3  | <b>2-Butanone</b>                                 | <b>0.909</b> |            | ug/m <sup>3</sup> | 0.568           | 1.927    | EPA TO-15<br>Certifications: NELAC-NY12058,NJDEP-Queens | 01/26/2023 09:00   | 01/28/2023 10:06   | VH      |
| 591-78-6 | * 2-Hexanone                                      | ND           |            | ug/m <sup>3</sup> | 1.58            | 1.927    | EPA TO-15<br>Certifications:                            | 01/26/2023 09:00   | 01/28/2023 10:06   | VH      |



## Sample Information

**Client Sample ID:** EFF-1

**York Sample ID:** 23A1083-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

23A1083

ITHS SSDS Sampling 100012-006-04

Soil Vapor

January 23, 2023 9:54 am

01/23/2023

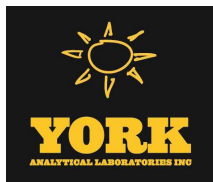
### VOA, TO15 MASTER

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

| CAS No.    | Parameter                      | Result       | Flag                        | Units             | Reported to<br>LOQ | Dilution | Reference Method                                        | Date/Time<br>Prepared | Date/Time<br>Analyzed | Analyst |
|------------|--------------------------------|--------------|-----------------------------|-------------------|--------------------|----------|---------------------------------------------------------|-----------------------|-----------------------|---------|
| 107-05-1   | 3-Chloropropene                | ND           |                             | ug/m <sup>3</sup> | 3.02               | 1.927    | EPA TO-15<br>Certifications: NELAC-NY12058,NJDEP-Queens | 01/26/2023 09:00      | 01/28/2023 10:06      | VH      |
| 108-10-1   | 4-Methyl-2-pentanone           | ND           |                             | ug/m <sup>3</sup> | 0.789              | 1.927    | EPA TO-15<br>Certifications: NELAC-NY12058,NJDEP-Queens | 01/26/2023 09:00      | 01/28/2023 10:06      | VH      |
| 67-64-1    | <b>Acetone</b>                 | <b>6.59</b>  |                             | ug/m <sup>3</sup> | 0.916              | 1.927    | EPA TO-15<br>Certifications: NELAC-NY12058,NJDEP-Queens | 01/26/2023 09:00      | 01/28/2023 10:06      | VH      |
| 107-13-1   | Acrylonitrile                  | ND           |                             | ug/m <sup>3</sup> | 0.418              | 1.927    | EPA TO-15<br>Certifications: NELAC-NY12058,NJDEP-Queens | 01/26/2023 09:00      | 01/28/2023 10:06      | VH      |
| 71-43-2    | <b>Benzene</b>                 | <b>1.05</b>  |                             | ug/m <sup>3</sup> | 0.616              | 1.927    | EPA TO-15<br>Certifications: NELAC-NY12058,NJDEP-Queens | 01/26/2023 09:00      | 01/28/2023 10:06      | VH      |
| 100-44-7   | Benzyl chloride                | ND           |                             | ug/m <sup>3</sup> | 2.00               | 1.927    | EPA TO-15<br>Certifications: NELAC-NY12058,NJDEP-Queens | 01/26/2023 09:00      | 01/28/2023 10:06      | VH      |
| 75-27-4    | Bromodichloromethane           | ND           |                             | ug/m <sup>3</sup> | 1.29               | 1.927    | EPA TO-15<br>Certifications: NELAC-NY12058,NJDEP-Queens | 01/26/2023 09:00      | 01/28/2023 10:06      | VH      |
| 75-25-2    | Bromoform                      | ND           |                             | ug/m <sup>3</sup> | 1.99               | 1.927    | EPA TO-15<br>Certifications: NELAC-NY12058,NJDEP-Queens | 01/26/2023 09:00      | 01/28/2023 10:06      | VH      |
| 74-83-9    | Bromomethane                   | ND           | TO-CC<br>V,<br>TO-LCS<br>-L | ug/m <sup>3</sup> | 0.748              | 1.927    | EPA TO-15<br>Certifications: NELAC-NY12058,NJDEP-Queens | 01/26/2023 09:00      | 01/28/2023 10:06      | VH      |
| 75-15-0    | Carbon disulfide               | ND           |                             | ug/m <sup>3</sup> | 0.600              | 1.927    | EPA TO-15<br>Certifications: NELAC-NY12058,NJDEP-Queens | 01/26/2023 09:00      | 01/28/2023 10:06      | VH      |
| 56-23-5    | <b>Carbon tetrachloride</b>    | <b>0.364</b> |                             | ug/m <sup>3</sup> | 0.303              | 1.927    | EPA TO-15<br>Certifications: NELAC-NY12058,NJDEP-Queens | 01/26/2023 09:00      | 01/28/2023 10:06      | VH      |
| 108-90-7   | Chlorobenzene                  | ND           |                             | ug/m <sup>3</sup> | 0.887              | 1.927    | EPA TO-15<br>Certifications: NELAC-NY12058,NJDEP-Queens | 01/26/2023 09:00      | 01/28/2023 10:06      | VH      |
| 75-00-3    | Chloroethane                   | ND           |                             | ug/m <sup>3</sup> | 0.508              | 1.927    | EPA TO-15<br>Certifications: NELAC-NY12058,NJDEP-Queens | 01/26/2023 09:00      | 01/28/2023 10:06      | VH      |
| 67-66-3    | Chloroform                     | ND           |                             | ug/m <sup>3</sup> | 0.941              | 1.927    | EPA TO-15<br>Certifications: NELAC-NY12058,NJDEP-Queens | 01/26/2023 09:00      | 01/28/2023 10:06      | VH      |
| 74-87-3    | <b>Chloromethane</b>           | <b>0.836</b> |                             | ug/m <sup>3</sup> | 0.398              | 1.927    | EPA TO-15<br>Certifications: NELAC-NY12058,NJDEP-Queens | 01/26/2023 09:00      | 01/28/2023 10:06      | VH      |
| 156-59-2   | cis-1,2-Dichloroethylene       | ND           |                             | ug/m <sup>3</sup> | 0.382              | 1.927    | EPA TO-15<br>Certifications: NELAC-NY12058,NJDEP-Queens | 01/26/2023 09:00      | 01/28/2023 10:06      | VH      |
| 10061-01-5 | cis-1,3-Dichloropropylene      | ND           |                             | ug/m <sup>3</sup> | 0.875              | 1.927    | EPA TO-15<br>Certifications: NELAC-NY12058,NJDEP-Queens | 01/26/2023 09:00      | 01/28/2023 10:06      | VH      |
| 110-82-7   | <b>Cyclohexane</b>             | <b>9.15</b>  |                             | ug/m <sup>3</sup> | 0.663              | 1.927    | EPA TO-15<br>Certifications: NELAC-NY12058,NJDEP-Queens | 01/26/2023 09:00      | 01/28/2023 10:06      | VH      |
| 124-48-1   | Dibromochloromethane           | ND           |                             | ug/m <sup>3</sup> | 1.64               | 1.927    | EPA TO-15<br>Certifications: NELAC-NY12058,NJDEP-Queens | 01/26/2023 09:00      | 01/28/2023 10:06      | VH      |
| 75-71-8    | <b>Dichlorodifluoromethane</b> | <b>2.95</b>  |                             | ug/m <sup>3</sup> | 0.953              | 1.927    | EPA TO-15<br>Certifications: NELAC-NY12058,NJDEP-Queens | 01/26/2023 09:00      | 01/28/2023 10:06      | VH      |
| 141-78-6   | * Ethyl acetate                | ND           |                             | ug/m <sup>3</sup> | 1.39               | 1.927    | EPA TO-15<br>Certifications: NELAC-NY12058,NJDEP-Queens | 01/26/2023 09:00      | 01/28/2023 10:06      | VH      |
| 100-41-4   | <b>Ethyl Benzene</b>           | <b>1.09</b>  |                             | ug/m <sup>3</sup> | 0.837              | 1.927    | EPA TO-15<br>Certifications: NELAC-NY12058,NJDEP-Queens | 01/26/2023 09:00      | 01/28/2023 10:06      | VH      |



## Sample Information

**Client Sample ID:** EFF-1

**York Sample ID:** 23A1083-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

23A1083

ITHS SSDS Sampling 100012-006-04

Soil Vapor

January 23, 2023 9:54 am

01/23/2023

### VOA, TO15 MASTER

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

| CAS No.     | Parameter                         | Result | Flag                      | Units             | Reported to LOQ | Dilution | Reference Method                                        | Date/Time Prepared | Date/Time Analyzed | Analyst |
|-------------|-----------------------------------|--------|---------------------------|-------------------|-----------------|----------|---------------------------------------------------------|--------------------|--------------------|---------|
| 87-68-3     | Hexachlorobutadiene               | ND     | CAL-E, TO-CC V, TO-LCS -L | ug/m <sup>3</sup> | 2.06            | 1.927    | EPA TO-15<br>Certifications: NELAC-NY12058,NJDEP-Queens | 01/26/2023 09:00   | 01/28/2023 10:06   | VH      |
| 67-63-0     | Isopropanol                       | 6.02   | B                         | ug/m <sup>3</sup> | 0.947           | 1.927    | EPA TO-15<br>Certifications: NELAC-NY12058,NJDEP-Queens | 01/26/2023 09:00   | 01/28/2023 10:06   | VH      |
| 80-62-6     | Methyl Methacrylate               | ND     |                           | ug/m <sup>3</sup> | 0.789           | 1.927    | EPA TO-15<br>Certifications: NELAC-NY12058,NJDEP-Queens | 01/26/2023 09:00   | 01/28/2023 10:06   | VH      |
| 1634-04-4   | Methyl tert-butyl ether (MTBE)    | ND     |                           | ug/m <sup>3</sup> | 0.695           | 1.927    | EPA TO-15<br>Certifications: NELAC-NY12058,NJDEP-Queens | 01/26/2023 09:00   | 01/28/2023 10:06   | VH      |
| 75-09-2     | Methylene chloride                | 1.87   |                           | ug/m <sup>3</sup> | 1.34            | 1.927    | EPA TO-15<br>Certifications: NELAC-NY12058,NJDEP-Queens | 01/26/2023 09:00   | 01/28/2023 10:06   | VH      |
| 142-82-5    | n-Heptane                         | 1.42   |                           | ug/m <sup>3</sup> | 0.790           | 1.927    | EPA TO-15<br>Certifications: NELAC-NY12058,NJDEP-Queens | 01/26/2023 09:00   | 01/28/2023 10:06   | VH      |
| 110-54-3    | n-Hexane                          | 2.58   |                           | ug/m <sup>3</sup> | 0.679           | 1.927    | EPA TO-15<br>Certifications: NELAC-NY12058,NJDEP-Queens | 01/26/2023 09:00   | 01/28/2023 10:06   | VH      |
| 95-47-6     | o-Xylene                          | 0.920  |                           | ug/m <sup>3</sup> | 0.837           | 1.927    | EPA TO-15<br>Certifications: NELAC-NY12058,NJDEP-Queens | 01/26/2023 09:00   | 01/28/2023 10:06   | VH      |
| 179601-23-1 | p- & m- Xylenes                   | 2.51   |                           | ug/m <sup>3</sup> | 1.67            | 1.927    | EPA TO-15<br>Certifications: NELAC-NY12058,NJDEP-Queens | 01/26/2023 09:00   | 01/28/2023 10:06   | VH      |
| 622-96-8    | * p-Ethyltoluene                  | ND     |                           | ug/m <sup>3</sup> | 0.947           | 1.927    | EPA TO-15<br>Certifications: NELAC-NY12058,NJDEP-Queens | 01/26/2023 09:00   | 01/28/2023 10:06   | VH      |
| 115-07-1    | * Propylene                       | ND     |                           | ug/m <sup>3</sup> | 0.332           | 1.927    | EPA TO-15<br>Certifications: NELAC-NY12058,NJDEP-Queens | 01/26/2023 09:00   | 01/28/2023 10:06   | VH      |
| 100-42-5    | Styrene                           | ND     |                           | ug/m <sup>3</sup> | 0.821           | 1.927    | EPA TO-15<br>Certifications: NELAC-NY12058,NJDEP-Queens | 01/26/2023 09:00   | 01/28/2023 10:06   | VH      |
| 127-18-4    | Tetrachloroethylene               | 2.35   |                           | ug/m <sup>3</sup> | 1.31            | 1.927    | EPA TO-15<br>Certifications: NELAC-NY12058,NJDEP-Queens | 01/26/2023 09:00   | 01/28/2023 10:06   | VH      |
| 109-99-9    | * Tetrahydrofuran                 | ND     |                           | ug/m <sup>3</sup> | 1.14            | 1.927    | EPA TO-15<br>Certifications: NELAC-NY12058,NJDEP-Queens | 01/26/2023 09:00   | 01/28/2023 10:06   | VH      |
| 108-88-3    | Toluene                           | 5.01   |                           | ug/m <sup>3</sup> | 0.726           | 1.927    | EPA TO-15<br>Certifications: NELAC-NY12058,NJDEP-Queens | 01/26/2023 09:00   | 01/28/2023 10:06   | VH      |
| 156-60-5    | trans-1,2-Dichloroethylene        | ND     |                           | ug/m <sup>3</sup> | 0.764           | 1.927    | EPA TO-15<br>Certifications: NELAC-NY12058,NJDEP-Queens | 01/26/2023 09:00   | 01/28/2023 10:06   | VH      |
| 10061-02-6  | trans-1,3-Dichloropropylene       | ND     |                           | ug/m <sup>3</sup> | 0.875           | 1.927    | EPA TO-15<br>Certifications: NELAC-NY12058,NJDEP-Queens | 01/26/2023 09:00   | 01/28/2023 10:06   | VH      |
| 79-01-6     | Trichloroethylene                 | 0.414  |                           | ug/m <sup>3</sup> | 0.259           | 1.927    | EPA TO-15<br>Certifications: NELAC-NY12058,NJDEP-Queens | 01/26/2023 09:00   | 01/28/2023 10:06   | VH      |
| 75-69-4     | Trichlorofluoromethane (Freon 11) | 1.19   |                           | ug/m <sup>3</sup> | 1.08            | 1.927    | EPA TO-15<br>Certifications: NELAC-NY12058,NJDEP-Queens | 01/26/2023 09:00   | 01/28/2023 10:06   | VH      |
| 108-05-4    | Vinyl acetate                     | ND     |                           | ug/m <sup>3</sup> | 0.679           | 1.927    | EPA TO-15<br>Certifications: NELAC-NY12058,NJDEP-Queens | 01/26/2023 09:00   | 01/28/2023 10:06   | VH      |
| 593-60-2    | Vinyl bromide                     | ND     |                           | ug/m <sup>3</sup> | 0.843           | 1.927    | EPA TO-15<br>Certifications: NELAC-NY12058,NJDEP-Queens | 01/26/2023 09:00   | 01/28/2023 10:06   | VH      |



## Sample Information

**Client Sample ID:** EFF-1

**York Sample ID:** 23A1083-01

York Project (SDG) No.

23A1083

Client Project ID

ITHS SSDS Sampling 100012-006-04

Matrix

Soil Vapor

Collection Date/Time

January 23, 2023 9:54 am

Date Received

01/23/2023

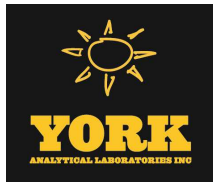
### VOA, TO15 MASTER

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

| CAS No. | Parameter      | Result | Flag | Units             | Reported to<br>LOQ | Dilution | Reference Method                                        | Date/Time<br>Prepared | Date/Time<br>Analyzed | Analyst |
|---------|----------------|--------|------|-------------------|--------------------|----------|---------------------------------------------------------|-----------------------|-----------------------|---------|
| 75-01-4 | Vinyl Chloride | ND     |      | ug/m <sup>3</sup> | 0.246              | 1.927    | EPA TO-15<br>Certifications: NELAC-NY12058,NJDEP-Queens | 01/26/2023 09:00      | 01/28/2023 10:06      | VH      |



## Analytical Batch Summary

**Batch ID:** BA31494

**Preparation Method:** EPA TO15 PREP

**Prepared By:** VH

| YORK Sample ID | Client Sample ID | Preparation Date |
|----------------|------------------|------------------|
| 23A1083-01     | EFF-1            | 01/26/23         |
| BA31494-BLK1   | Blank            | 01/26/23         |
| BA31494-BS1    | LCS              | 01/26/23         |
| BA31494-DUP1   | Duplicate        | 01/26/23         |





## Volatile Organic Compounds in Air by GC/MS - Quality Control Data

### York Analytical Laboratories, Inc. - Stratford

| Analyte | Result | Reporting<br>Limit | Units | Spike<br>Level | Source*<br>Result | %REC | %REC<br>Limits | Flag | RPD | RPD<br>Limit | Flag |
|---------|--------|--------------------|-------|----------------|-------------------|------|----------------|------|-----|--------------|------|
|---------|--------|--------------------|-------|----------------|-------------------|------|----------------|------|-----|--------------|------|

#### Batch BA31494 - EPA TO15 PREP

##### Blank (BA31494-BLK1)

Prepared: 01/26/2023 Analyzed: 01/27/2023

|                                                   |       |       |                   |
|---------------------------------------------------|-------|-------|-------------------|
| 1,1,1,2-Tetrachloroethane                         | ND    | 0.687 | ug/m <sup>3</sup> |
| 1,1,1-Trichloroethane                             | ND    | 0.546 | "                 |
| 1,1,2,2-Tetrachloroethane                         | ND    | 0.687 | "                 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | ND    | 0.766 | "                 |
| 1,1,2-Trichloroethane                             | ND    | 0.546 | "                 |
| 1,1-Dichloroethane                                | ND    | 0.405 | "                 |
| 1,1-Dichloroethylene                              | ND    | 0.198 | "                 |
| 1,2,4-Trichlorobenzene                            | ND    | 0.742 | "                 |
| 1,2,4-Trimethylbenzene                            | ND    | 0.492 | "                 |
| 1,2-Dibromoethane                                 | ND    | 0.768 | "                 |
| 1,2-Dichlorobenzene                               | ND    | 0.601 | "                 |
| 1,2-Dichloroethane                                | ND    | 0.405 | "                 |
| 1,2-Dichloropropane                               | ND    | 0.462 | "                 |
| 1,2-Dichlorotetrafluoroethane                     | ND    | 0.699 | "                 |
| 1,3,5-Trimethylbenzene                            | ND    | 0.492 | "                 |
| 1,3-Butadiene                                     | ND    | 0.664 | "                 |
| 1,3-Dichlorobenzene                               | ND    | 0.601 | "                 |
| 1,3-Dichloropropane                               | ND    | 0.462 | "                 |
| 1,4-Dichlorobenzene                               | ND    | 0.601 | "                 |
| 1,4-Dioxane                                       | ND    | 0.721 | "                 |
| 2-Butanone                                        | ND    | 0.295 | "                 |
| 2-Hexanone                                        | ND    | 0.819 | "                 |
| 3-Chloropropene                                   | ND    | 1.57  | "                 |
| 4-Methyl-2-pentanone                              | ND    | 0.410 | "                 |
| Acetone                                           | ND    | 0.475 | "                 |
| Acrylonitrile                                     | ND    | 0.217 | "                 |
| Benzene                                           | ND    | 0.319 | "                 |
| Benzyl chloride                                   | ND    | 0.518 | "                 |
| Bromodichloromethane                              | ND    | 0.670 | "                 |
| Bromoform                                         | ND    | 1.03  | "                 |
| Bromomethane                                      | ND    | 0.388 | "                 |
| Carbon disulfide                                  | ND    | 0.311 | "                 |
| Carbon tetrachloride                              | ND    | 0.157 | "                 |
| Chlorobenzene                                     | ND    | 0.460 | "                 |
| Chloroethane                                      | ND    | 0.264 | "                 |
| Chloroform                                        | ND    | 0.488 | "                 |
| Chloromethane                                     | ND    | 0.207 | "                 |
| cis-1,2-Dichloroethylene                          | ND    | 0.198 | "                 |
| cis-1,3-Dichloropropylene                         | ND    | 0.454 | "                 |
| Cyclohexane                                       | ND    | 0.344 | "                 |
| Dibromochloromethane                              | ND    | 0.852 | "                 |
| Dichlorodifluoromethane                           | ND    | 0.495 | "                 |
| Ethyl acetate                                     | ND    | 0.721 | "                 |
| Ethyl Benzene                                     | ND    | 0.434 | "                 |
| Hexachlorobutadiene                               | ND    | 1.07  | "                 |
| Isopropanol                                       | 0.934 | 0.492 | "                 |
| Methyl Methacrylate                               | ND    | 0.409 | "                 |
| Methyl tert-butyl ether (MTBE)                    | ND    | 0.361 | "                 |
| Methylene chloride                                | ND    | 0.695 | "                 |



## Volatile Organic Compounds in Air by GC/MS - Quality Control Data

### York Analytical Laboratories, Inc. - Stratford

| Analyte | Result | Reporting<br>Limit | Units | Spike<br>Level | Source*<br>Result | %REC | %REC<br>Limits | Flag | RPD | RPD<br>Limit | Flag |
|---------|--------|--------------------|-------|----------------|-------------------|------|----------------|------|-----|--------------|------|
|---------|--------|--------------------|-------|----------------|-------------------|------|----------------|------|-----|--------------|------|

#### Batch BA31494 - EPA TO15 PREP

##### Blank (BA31494-BLK1)

Prepared: 01/26/2023 Analyzed: 01/27/2023

|                                   |    |       |                   |
|-----------------------------------|----|-------|-------------------|
| n-Heptane                         | ND | 0.410 | ug/m <sup>3</sup> |
| n-Hexane                          | ND | 0.352 | "                 |
| o-Xylene                          | ND | 0.434 | "                 |
| p- & m- Xylenes                   | ND | 0.868 | "                 |
| p-Ethyltoluene                    | ND | 0.492 | "                 |
| Propylene                         | ND | 0.172 | "                 |
| Styrene                           | ND | 0.426 | "                 |
| Tetrachloroethylene               | ND | 0.678 | "                 |
| Tetrahydrofuran                   | ND | 0.590 | "                 |
| Toluene                           | ND | 0.377 | "                 |
| trans-1,2-Dichloroethylene        | ND | 0.396 | "                 |
| trans-1,3-Dichloropropylene       | ND | 0.454 | "                 |
| Trichloroethylene                 | ND | 0.134 | "                 |
| Trichlorofluoromethane (Freon 11) | ND | 0.562 | "                 |
| Vinyl acetate                     | ND | 0.352 | "                 |
| Vinyl bromide                     | ND | 0.437 | "                 |
| Vinyl Chloride                    | ND | 0.128 | "                 |

##### LCS (BA31494-BS1)

Prepared: 01/26/2023 Analyzed: 01/27/2023

|                                                   |      |  |      |      |      |                 |
|---------------------------------------------------|------|--|------|------|------|-----------------|
| 1,1,1,2-Tetrachloroethane                         | 9.05 |  | ppbv | 10.0 | 90.5 | 70-130          |
| 1,1,1-Trichloroethane                             | 10.1 |  | "    | 10.0 | 101  | 70-130          |
| 1,1,2,2-Tetrachloroethane                         | 9.19 |  | "    | 10.0 | 91.9 | 70-130          |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | 9.40 |  | "    | 10.0 | 94.0 | 70-130          |
| 1,1,2-Trichloroethane                             | 8.34 |  | "    | 10.0 | 83.4 | 70-130          |
| 1,1-Dichloroethane                                | 9.15 |  | "    | 10.0 | 91.5 | 70-130          |
| 1,1-Dichloroethylene                              | 10.5 |  | "    | 10.0 | 105  | 70-130          |
| 1,2,4-Trichlorobenzene                            | 7.07 |  | "    | 10.0 | 70.7 | 70-130          |
| 1,2,4-Trimethylbenzene                            | 8.34 |  | "    | 10.0 | 83.4 | 70-130          |
| 1,2-Dibromoethane                                 | 8.91 |  | "    | 10.0 | 89.1 | 70-130          |
| 1,2-Dichlorobenzene                               | 7.83 |  | "    | 10.0 | 78.3 | 70-130          |
| 1,2-Dichloroethane                                | 9.96 |  | "    | 10.0 | 99.6 | 70-130          |
| 1,2-Dichloropropane                               | 10.1 |  | "    | 10.0 | 101  | 70-130          |
| 1,2-Dichlorotetrafluoroethane                     | 7.83 |  | "    | 10.0 | 78.3 | 70-130          |
| 1,3,5-Trimethylbenzene                            | 8.21 |  | "    | 10.0 | 82.1 | 70-130          |
| 1,3-Butadiene                                     | 7.13 |  | "    | 10.0 | 71.3 | 70-130          |
| 1,3-Dichlorobenzene                               | 8.17 |  | "    | 10.0 | 81.7 | 70-130          |
| 1,3-Dichloropropane                               | 9.95 |  | "    | 10.0 | 99.5 | 70-130          |
| 1,4-Dichlorobenzene                               | 7.93 |  | "    | 10.0 | 79.3 | 70-130          |
| 1,4-Dioxane                                       | 9.37 |  | "    | 10.0 | 93.7 | 70-130          |
| 2-Butanone                                        | 9.69 |  | "    | 10.0 | 96.9 | 70-130          |
| 2-Hexanone                                        | 7.75 |  | "    | 10.0 | 77.5 | 70-130          |
| 3-Chloropropene                                   | 11.0 |  | "    | 10.0 | 110  | 70-130          |
| 4-Methyl-2-pentanone                              | 8.51 |  | "    | 10.0 | 85.1 | 70-130          |
| Acetone                                           | 8.66 |  | "    | 10.0 | 86.6 | 70-130          |
| Acrylonitrile                                     | 10.4 |  | "    | 10.0 | 104  | 70-130          |
| Benzene                                           | 10.0 |  | "    | 10.0 | 100  | 70-130          |
| Benzyl chloride                                   | 7.78 |  | "    | 10.0 | 77.8 | 70-130          |
| Bromodichloromethane                              | 9.95 |  | "    | 10.0 | 99.5 | 70-130          |
| Bromoform                                         | 8.16 |  | "    | 10.0 | 81.6 | 70-130          |
| Bromomethane                                      | 4.67 |  | "    | 10.0 | 46.7 | 70-130 Low Bias |
| Carbon disulfide                                  | 9.27 |  | "    | 10.0 | 92.7 | 70-130          |



## Volatile Organic Compounds in Air by GC/MS - Quality Control Data

### York Analytical Laboratories, Inc. - Stratford

| Analyte | Result | Reporting<br>Limit | Units | Spike<br>Level | Source*<br>Result | %REC | %REC<br>Limits | Flag | RPD | RPD<br>Limit | Flag |
|---------|--------|--------------------|-------|----------------|-------------------|------|----------------|------|-----|--------------|------|
|---------|--------|--------------------|-------|----------------|-------------------|------|----------------|------|-----|--------------|------|

#### Batch BA31494 - EPA TO15 PREP

##### LCS (BA31494-BS1)

Prepared: 01/26/2023 Analyzed: 01/27/2023

|                                   |      |  |      |      |  |      |        |          |  |  |  |
|-----------------------------------|------|--|------|------|--|------|--------|----------|--|--|--|
| Carbon tetrachloride              | 10.4 |  | ppbv | 10.0 |  | 104  | 70-130 |          |  |  |  |
| Chlorobenzene                     | 9.06 |  | "    | 10.0 |  | 90.6 | 70-130 |          |  |  |  |
| Chloroethane                      | 7.61 |  | "    | 10.0 |  | 76.1 | 70-130 |          |  |  |  |
| Chloroform                        | 9.66 |  | "    | 10.0 |  | 96.6 | 70-130 |          |  |  |  |
| Chloromethane                     | 7.34 |  | "    | 10.0 |  | 73.4 | 70-130 |          |  |  |  |
| cis-1,2-Dichloroethylene          | 11.0 |  | "    | 10.0 |  | 110  | 70-130 |          |  |  |  |
| cis-1,3-Dichloropropylene         | 9.32 |  | "    | 10.0 |  | 93.2 | 70-130 |          |  |  |  |
| Cyclohexane                       | 9.68 |  | "    | 10.0 |  | 96.8 | 70-130 |          |  |  |  |
| Dibromochloromethane              | 9.14 |  | "    | 10.0 |  | 91.4 | 70-130 |          |  |  |  |
| Dichlorodifluoromethane           | 9.78 |  | "    | 10.0 |  | 97.8 | 70-130 |          |  |  |  |
| Ethyl acetate                     | 10.2 |  | "    | 10.0 |  | 102  | 70-130 |          |  |  |  |
| Ethyl Benzene                     | 10.5 |  | "    | 10.0 |  | 105  | 70-130 |          |  |  |  |
| Hexachlorobutadiene               | 4.92 |  | "    | 10.0 |  | 49.2 | 70-130 | Low Bias |  |  |  |
| Isopropanol                       | 8.46 |  | "    | 10.0 |  | 84.6 | 70-130 |          |  |  |  |
| Methyl Methacrylate               | 8.28 |  | "    | 10.0 |  | 82.8 | 70-130 |          |  |  |  |
| Methyl tert-butyl ether (MTBE)    | 11.4 |  | "    | 10.0 |  | 114  | 70-130 |          |  |  |  |
| Methylene chloride                | 8.09 |  | "    | 10.0 |  | 80.9 | 70-130 |          |  |  |  |
| n-Heptane                         | 8.72 |  | "    | 10.0 |  | 87.2 | 70-130 |          |  |  |  |
| n-Hexane                          | 9.47 |  | "    | 10.0 |  | 94.7 | 70-130 |          |  |  |  |
| o-Xylene                          | 8.18 |  | "    | 10.0 |  | 81.8 | 70-130 |          |  |  |  |
| p- & m- Xylenes                   | 15.8 |  | "    | 20.0 |  | 79.2 | 70-130 |          |  |  |  |
| p-Ethyltoluene                    | 8.49 |  | "    | 10.0 |  | 84.9 | 70-130 |          |  |  |  |
| Propylene                         | 10.6 |  | "    | 10.0 |  | 106  | 70-130 |          |  |  |  |
| Styrene                           | 7.63 |  | "    | 10.0 |  | 76.3 | 70-130 |          |  |  |  |
| Tetrachloroethylene               | 9.35 |  | "    | 10.0 |  | 93.5 | 70-130 |          |  |  |  |
| Tetrahydrofuran                   | 10.4 |  | "    | 10.0 |  | 104  | 70-130 |          |  |  |  |
| Toluene                           | 8.85 |  | "    | 10.0 |  | 88.5 | 70-130 |          |  |  |  |
| trans-1,2-Dichloroethylene        | 10.1 |  | "    | 10.0 |  | 101  | 70-130 |          |  |  |  |
| trans-1,3-Dichloropropylene       | 9.19 |  | "    | 10.0 |  | 91.9 | 70-130 |          |  |  |  |
| Trichloroethylene                 | 9.50 |  | "    | 10.0 |  | 95.0 | 70-130 |          |  |  |  |
| Trichlorofluoromethane (Freon 11) | 9.48 |  | "    | 10.0 |  | 94.8 | 70-130 |          |  |  |  |
| Vinyl acetate                     | 8.27 |  | "    | 10.0 |  | 82.7 | 70-130 |          |  |  |  |
| Vinyl bromide                     | 10.3 |  | "    | 10.0 |  | 103  | 70-130 |          |  |  |  |
| Vinyl Chloride                    | 7.77 |  | "    | 10.0 |  | 77.7 | 70-130 |          |  |  |  |



## Volatile Organic Compounds in Air by GC/MS - Quality Control Data

### York Analytical Laboratories, Inc. - Stratford

| Analyte | Result | Reporting Limit | Units | Spike Level | Source* Result | %REC | %REC Limits | Flag | RPD | RPD Limit | Flag |
|---------|--------|-----------------|-------|-------------|----------------|------|-------------|------|-----|-----------|------|
|---------|--------|-----------------|-------|-------------|----------------|------|-------------|------|-----|-----------|------|

#### Batch BA31494 - EPA TO15 PREP

| Duplicate (BA31494-DUP1)                          | *Source sample: 23A1086-01 (Duplicate) |       |                   |  | Prepared: 01/26/2023 Analyzed: 01/27/2023 |  |  |  |       |    |  |
|---------------------------------------------------|----------------------------------------|-------|-------------------|--|-------------------------------------------|--|--|--|-------|----|--|
| 1,1,1,2-Tetrachloroethane                         | ND                                     | 0.655 | ug/m <sup>3</sup> |  | ND                                        |  |  |  |       | 25 |  |
| 1,1,1-Trichloroethane                             | ND                                     | 0.521 | "                 |  | ND                                        |  |  |  |       | 25 |  |
| 1,1,2,2-Tetrachloroethane                         | ND                                     | 0.655 | "                 |  | ND                                        |  |  |  |       | 25 |  |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | ND                                     | 0.731 | "                 |  | ND                                        |  |  |  |       | 25 |  |
| 1,1,2-Trichloroethane                             | ND                                     | 0.521 | "                 |  | ND                                        |  |  |  |       | 25 |  |
| 1,1-Dichloroethane                                | ND                                     | 0.386 | "                 |  | ND                                        |  |  |  |       | 25 |  |
| 1,1-Dichloroethylene                              | ND                                     | 0.189 | "                 |  | ND                                        |  |  |  |       | 25 |  |
| 1,2,4-Trichlorobenzene                            | ND                                     | 0.708 | "                 |  | ND                                        |  |  |  |       | 25 |  |
| 1,2,4-Trimethylbenzene                            | 0.375                                  | 0.469 | "                 |  | 0.375                                     |  |  |  | 0.00  | 25 |  |
| 1,2-Dibromoethane                                 | ND                                     | 0.733 | "                 |  | ND                                        |  |  |  |       | 25 |  |
| 1,2-Dichlorobenzene                               | ND                                     | 0.574 | "                 |  | ND                                        |  |  |  |       | 25 |  |
| 1,2-Dichloroethane                                | ND                                     | 0.386 | "                 |  | ND                                        |  |  |  |       | 25 |  |
| 1,2-Dichloropropane                               | ND                                     | 0.441 | "                 |  | ND                                        |  |  |  |       | 25 |  |
| 1,2-Dichlorotetrafluoroethane                     | ND                                     | 0.667 | "                 |  | ND                                        |  |  |  |       | 25 |  |
| 1,3,5-Trimethylbenzene                            | ND                                     | 0.469 | "                 |  | ND                                        |  |  |  |       | 25 |  |
| 1,3-Butadiene                                     | ND                                     | 0.633 | "                 |  | ND                                        |  |  |  |       | 25 |  |
| 1,3-Dichlorobenzene                               | ND                                     | 0.574 | "                 |  | ND                                        |  |  |  |       | 25 |  |
| 1,3-Dichloropropane                               | ND                                     | 0.441 | "                 |  | ND                                        |  |  |  |       | 25 |  |
| 1,4-Dichlorobenzene                               | ND                                     | 0.574 | "                 |  | ND                                        |  |  |  |       | 25 |  |
| 1,4-Dioxane                                       | ND                                     | 0.688 | "                 |  | ND                                        |  |  |  |       | 25 |  |
| 2-Butanone                                        | 19.8                                   | 0.281 | "                 |  | 19.2                                      |  |  |  | 3.32  | 25 |  |
| 2-Hexanone                                        | 0.703                                  | 0.782 | "                 |  | 0.664                                     |  |  |  | 5.71  | 25 |  |
| 3-Chloropropene                                   | ND                                     | 1.49  | "                 |  | ND                                        |  |  |  |       | 25 |  |
| 4-Methyl-2-pentanone                              | ND                                     | 0.391 | "                 |  | ND                                        |  |  |  |       | 25 |  |
| Acetone                                           | 14.8                                   | 0.453 | "                 |  | 14.8                                      |  |  |  | 0.459 | 25 |  |
| Acrylonitrile                                     | ND                                     | 0.207 | "                 |  | ND                                        |  |  |  |       | 25 |  |
| Benzene                                           | 0.945                                  | 0.305 | "                 |  | 0.945                                     |  |  |  | 0.00  | 25 |  |
| Benzyl chloride                                   | ND                                     | 0.494 | "                 |  | ND                                        |  |  |  |       | 25 |  |
| Bromodichloromethane                              | ND                                     | 0.639 | "                 |  | ND                                        |  |  |  |       | 25 |  |
| Bromoform                                         | ND                                     | 0.986 | "                 |  | ND                                        |  |  |  |       | 25 |  |
| Bromomethane                                      | ND                                     | 0.370 | "                 |  | ND                                        |  |  |  |       | 25 |  |
| Carbon disulfide                                  | ND                                     | 0.297 | "                 |  | ND                                        |  |  |  |       | 25 |  |
| Carbon tetrachloride                              | 0.360                                  | 0.150 | "                 |  | 0.360                                     |  |  |  | 0.00  | 25 |  |
| Chlorobenzene                                     | ND                                     | 0.439 | "                 |  | ND                                        |  |  |  |       | 25 |  |
| Chloroethane                                      | ND                                     | 0.252 | "                 |  | ND                                        |  |  |  |       | 25 |  |
| Chloroform                                        | ND                                     | 0.466 | "                 |  | ND                                        |  |  |  |       | 25 |  |
| Chloromethane                                     | 0.946                                  | 0.197 | "                 |  | 0.887                                     |  |  |  | 6.45  | 25 |  |
| cis-1,2-Dichloroethylene                          | ND                                     | 0.189 | "                 |  | ND                                        |  |  |  |       | 25 |  |
| cis-1,3-Dichloropropylene                         | ND                                     | 0.433 | "                 |  | ND                                        |  |  |  |       | 25 |  |
| Cyclohexane                                       | ND                                     | 0.328 | "                 |  | ND                                        |  |  |  |       | 25 |  |
| Dibromochloromethane                              | ND                                     | 0.813 | "                 |  | ND                                        |  |  |  |       | 25 |  |
| Dichlorodifluoromethane                           | 2.26                                   | 0.472 | "                 |  | 2.41                                      |  |  |  | 6.06  | 25 |  |
| Ethyl acetate                                     | 0.825                                  | 0.688 | "                 |  | 0.791                                     |  |  |  | 4.26  | 25 |  |
| Ethyl Benzene                                     | 0.331                                  | 0.414 | "                 |  | 0.331                                     |  |  |  | 0.00  | 25 |  |
| Hexachlorobutadiene                               | ND                                     | 1.02  | "                 |  | ND                                        |  |  |  |       | 25 |  |
| Isopropanol                                       | 4.39                                   | 0.469 | "                 |  | 4.22                                      |  |  |  | 3.81  | 25 |  |
| Methyl Methacrylate                               | ND                                     | 0.391 | "                 |  | ND                                        |  |  |  |       | 25 |  |
| Methyl tert-butyl ether (MTBE)                    | ND                                     | 0.344 | "                 |  | ND                                        |  |  |  |       | 25 |  |
| Methylene chloride                                | 0.663                                  | 0.663 | "                 |  | 0.663                                     |  |  |  | 0.00  | 25 |  |
| n-Heptane                                         | 0.508                                  | 0.391 | "                 |  | 0.508                                     |  |  |  | 0.00  | 25 |  |



## Volatile Organic Compounds in Air by GC/MS - Quality Control Data

### York Analytical Laboratories, Inc. - Stratford

| Analyte | Result | Reporting<br>Limit | Units | Spike<br>Level | Source*<br>Result | %REC<br>Limits | Flag | RPD | RPD<br>Limit | Flag |
|---------|--------|--------------------|-------|----------------|-------------------|----------------|------|-----|--------------|------|
|---------|--------|--------------------|-------|----------------|-------------------|----------------|------|-----|--------------|------|

#### Batch BA31494 - EPA TO15 PREP

| Duplicate (BA31494-DUP1)          | *Source sample: 23A1086-01 (Duplicate) |       |                   |  | Prepared: 01/26/2023 Analyzed: 01/27/2023 |  |  |       |    |  |
|-----------------------------------|----------------------------------------|-------|-------------------|--|-------------------------------------------|--|--|-------|----|--|
| n-Hexane                          | 0.538                                  | 0.336 | ug/m <sup>3</sup> |  | 0.538                                     |  |  | 0.00  | 25 |  |
| o-Xylene                          | 0.249                                  | 0.414 | "                 |  | 0.249                                     |  |  | 0.00  | 25 |  |
| p- & m- Xylenes                   | ND                                     | 0.828 | "                 |  | ND                                        |  |  |       | 25 |  |
| p-Ethyltoluene                    | ND                                     | 0.469 | "                 |  | ND                                        |  |  |       | 25 |  |
| Propylene                         | 3.91                                   | 0.164 | "                 |  | 3.94                                      |  |  | 0.837 | 25 |  |
| Styrene                           | ND                                     | 0.406 | "                 |  | ND                                        |  |  |       | 25 |  |
| Tetrachloroethylene               | 58.8                                   | 0.647 | "                 |  | 58.1                                      |  |  | 1.11  | 25 |  |
| Tetrahydrofuran                   | ND                                     | 0.563 | "                 |  | ND                                        |  |  |       | 25 |  |
| Toluene                           | 1.40                                   | 0.360 | "                 |  | 1.40                                      |  |  | 0.00  | 25 |  |
| trans-1,2-Dichloroethylene        | ND                                     | 0.378 | "                 |  | ND                                        |  |  |       | 25 |  |
| trans-1,3-Dichloropropylene       | ND                                     | 0.433 | "                 |  | ND                                        |  |  |       | 25 |  |
| Trichloroethylene                 | ND                                     | 0.128 | "                 |  | ND                                        |  |  |       | 25 |  |
| Trichlorofluoromethane (Freon 11) | 1.18                                   | 0.536 | "                 |  | 1.18                                      |  |  | 0.00  | 25 |  |
| Vinyl acetate                     | ND                                     | 0.336 | "                 |  | ND                                        |  |  |       | 25 |  |
| Vinyl bromide                     | ND                                     | 0.417 | "                 |  | ND                                        |  |  |       | 25 |  |
| Vinyl Chloride                    | ND                                     | 0.122 | "                 |  | ND                                        |  |  |       | 25 |  |





## Sample and Data Qualifiers Relating to This Work Order

|          |                                                                                                                                                              |
|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TO-LCS-L | The result reported for this compound may be biased low due to its behavior in the analysis batch LCS where it recovered less 70% of the expected value.     |
| TO-CCV   | The value reported is ESTIMATED for this compound due to its behavior during continuing calibration verification (>30% Difference from initial calibration). |
| CAL-E    | The value reported is ESTIMATED. The value is estimated due to its behavior during initial calibration (average Rf>20%)                                      |
| B        | Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants.                          |

## Definitions and Other Explanations

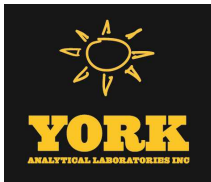
|             |                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| *           | Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.                                                                                                                                                                                                                                                                                                                              |
| ND          | NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)                                                                                                                                                                                                                                                                                                                                                     |
| RL          | REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.                                                                                                                                                                                                                                                                                                                                |
| LOQ         | LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.                                                                    |
| LOD         | LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.                                                                                                                                                                      |
| MDL         | METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.                                                                                                               |
| Reported to | This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.                                                                                                |
| NR          | Not reported                                                                                                                                                                                                                                                                                                                                                                                                                                |
| RPD         | Relative Percent Difference                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Wet         | The data has been reported on an as-received (wet weight) basis                                                                                                                                                                                                                                                                                                                                                                             |
| Low Bias    | Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.          |
| High Bias   | High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.        |
| Non-Dir.    | Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons. |

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.



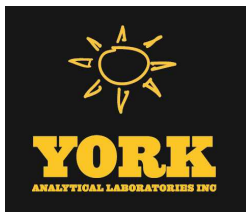
Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

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# Technical Report

prepared for:

**Fleming, Lee Shue Env Engineering & Geology D.P.C.**  
158 West 29th Street  
New York NY, 10001  
**Attention: Joel Kane**

Report Date: 07/15/2022  
**Client Project ID: 10012 ITHS SS05 OMM**  
York Project (SDG) No.: 22G0374

CT Cert. No. PH-0723

New Jersey Cert. No. CT005 and NY037



New York Cert. Nos. 10854 and 12058

PA Cert. No. 68-04440

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RICHMOND HILL, NY 11418  
[ClientServices@yorklab.com](mailto:ClientServices@yorklab.com)

Report Date: 07/15/2022  
Client Project ID: 10012 ITHS SS05 OMM  
York Project (SDG) No.: 22G0374

**Fleming, Lee Shue Env Engineering & Geology D.P.C.**  
158 West 29th Street  
New York NY, 10001  
Attention: Joel Kane

## Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on July 11, 2022 and listed below. The project was identified as your project: **10012 ITHS SS05 OMM**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

| <u>York Sample ID</u> | <u>Client Sample ID</u> | <u>Matrix</u> | <u>Date Collected</u> | <u>Date Received</u> |
|-----------------------|-------------------------|---------------|-----------------------|----------------------|
| 22G0374-01            | SS05 Effluent           | Soil Vapor    | 07/11/2022            | 07/11/2022           |

## General Notes for York Project (SDG) No.: 22G0374

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By:



Cassie L. Mosher  
Laboratory Manager

Date: 07/15/2022





## Sample Information

**Client Sample ID:** SS05 Effluent

**York Sample ID:** 22G0374-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

22G0374

10012 ITHS SS05 OMM

Soil Vapor

July 11, 2022 10:45 am

07/11/2022

### VOA, TO15 Full

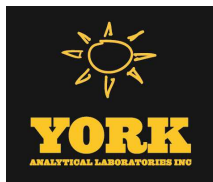
### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

| CAS No.  | Parameter                                         | Result      | Flag | Units             | Reported to LOQ | Dilution | Reference Method                                        | Date/Time Prepared | Date/Time Analyzed | Analyst |
|----------|---------------------------------------------------|-------------|------|-------------------|-----------------|----------|---------------------------------------------------------|--------------------|--------------------|---------|
| 630-20-6 | * 1,1,1,2-Tetrachloroethane                       | ND          |      | ug/m <sup>3</sup> | 1.24            | 1.8      | EPA TO-15<br>Certifications:                            | 07/13/2022 00:15   | 07/13/2022 07:49   | AS      |
| 71-55-6  | 1,1,1-Trichloroethane                             | ND          |      | ug/m <sup>3</sup> | 0.982           | 1.8      | EPA TO-15<br>Certifications: NELAC-NY12058,NJDEP-Queens | 07/13/2022 00:15   | 07/13/2022 07:49   | AS      |
| 79-34-5  | 1,1,2,2-Tetrachloroethane                         | ND          |      | ug/m <sup>3</sup> | 1.24            | 1.8      | EPA TO-15<br>Certifications: NELAC-NY12058,NJDEP-Queens | 07/13/2022 00:15   | 07/13/2022 07:49   | AS      |
| 76-13-1  | 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | ND          |      | ug/m <sup>3</sup> | 1.38            | 1.8      | EPA TO-15<br>Certifications: NELAC-NY12058,NJDEP-Queens | 07/13/2022 00:15   | 07/13/2022 07:49   | AS      |
| 79-00-5  | 1,1,2-Trichloroethane                             | ND          |      | ug/m <sup>3</sup> | 0.982           | 1.8      | EPA TO-15<br>Certifications: NELAC-NY12058,NJDEP-Queens | 07/13/2022 00:15   | 07/13/2022 07:49   | AS      |
| 75-34-3  | 1,1-Dichloroethane                                | ND          |      | ug/m <sup>3</sup> | 0.729           | 1.8      | EPA TO-15<br>Certifications: NELAC-NY12058,NJDEP-Queens | 07/13/2022 00:15   | 07/13/2022 07:49   | AS      |
| 75-35-4  | 1,1-Dichloroethylene                              | ND          |      | ug/m <sup>3</sup> | 0.357           | 1.8      | EPA TO-15<br>Certifications: NELAC-NY12058,NJDEP-Queens | 07/13/2022 00:15   | 07/13/2022 07:49   | AS      |
| 120-82-1 | <b>1,2,4-Trichlorobenzene</b>                     | <b>1.60</b> |      | ug/m <sup>3</sup> | 1.34            | 1.8      | EPA TO-15<br>Certifications: NELAC-NY12058,NJDEP-Queens | 07/13/2022 00:15   | 07/13/2022 07:49   | AS      |
| 95-63-6  | <b>1,2,4-Trimethylbenzene</b>                     | <b>2.12</b> |      | ug/m <sup>3</sup> | 0.885           | 1.8      | EPA TO-15<br>Certifications: NELAC-NY12058,NJDEP-Queens | 07/13/2022 00:15   | 07/13/2022 07:49   | AS      |
| 106-93-4 | 1,2-Dibromoethane                                 | ND          |      | ug/m <sup>3</sup> | 1.38            | 1.8      | EPA TO-15<br>Certifications: NELAC-NY12058,NJDEP-Queens | 07/13/2022 00:15   | 07/13/2022 07:49   | AS      |
| 95-50-1  | 1,2-Dichlorobenzene                               | ND          |      | ug/m <sup>3</sup> | 1.08            | 1.8      | EPA TO-15<br>Certifications: NELAC-NY12058,NJDEP-Queens | 07/13/2022 00:15   | 07/13/2022 07:49   | AS      |
| 107-06-2 | 1,2-Dichloroethane                                | ND          |      | ug/m <sup>3</sup> | 0.728           | 1.8      | EPA TO-15<br>Certifications: NELAC-NY12058,NJDEP-Queens | 07/13/2022 00:15   | 07/13/2022 07:49   | AS      |
| 78-87-5  | 1,2-Dichloropropane                               | ND          |      | ug/m <sup>3</sup> | 0.832           | 1.8      | EPA TO-15<br>Certifications: NELAC-NY12058,NJDEP-Queens | 07/13/2022 00:15   | 07/13/2022 07:49   | AS      |
| 76-14-2  | 1,2-Dichlorotetrafluoroethane                     | ND          |      | ug/m <sup>3</sup> | 1.26            | 1.8      | EPA TO-15<br>Certifications: NELAC-NY12058,NJDEP-Queens | 07/13/2022 00:15   | 07/13/2022 07:49   | AS      |
| 108-67-8 | 1,3,5-Trimethylbenzene                            | ND          |      | ug/m <sup>3</sup> | 0.885           | 1.8      | EPA TO-15<br>Certifications: NELAC-NY12058,NJDEP-Queens | 07/13/2022 00:15   | 07/13/2022 07:49   | AS      |
| 106-99-0 | 1,3-Butadiene                                     | ND          |      | ug/m <sup>3</sup> | 1.19            | 1.8      | EPA TO-15<br>Certifications: NELAC-NY12058,NJDEP-Queens | 07/13/2022 00:15   | 07/13/2022 07:49   | AS      |
| 541-73-1 | 1,3-Dichlorobenzene                               | ND          |      | ug/m <sup>3</sup> | 1.08            | 1.8      | EPA TO-15<br>Certifications: NELAC-NY12058,NJDEP-Queens | 07/13/2022 00:15   | 07/13/2022 07:49   | AS      |
| 142-28-9 | * 1,3-Dichloropropane                             | ND          |      | ug/m <sup>3</sup> | 0.832           | 1.8      | EPA TO-15<br>Certifications:                            | 07/13/2022 00:15   | 07/13/2022 07:49   | AS      |
| 106-46-7 | 1,4-Dichlorobenzene                               | ND          |      | ug/m <sup>3</sup> | 1.08            | 1.8      | EPA TO-15<br>Certifications: NELAC-NY12058,NJDEP-Queens | 07/13/2022 00:15   | 07/13/2022 07:49   | AS      |
| 123-91-1 | 1,4-Dioxane                                       | ND          |      | ug/m <sup>3</sup> | 1.30            | 1.8      | EPA TO-15<br>Certifications: NELAC-NY12058,NJDEP-Queens | 07/13/2022 00:15   | 07/13/2022 07:49   | AS      |
| 78-93-3  | <b>2-Butanone</b>                                 | <b>2.87</b> |      | ug/m <sup>3</sup> | 0.531           | 1.8      | EPA TO-15<br>Certifications: NELAC-NY12058,NJDEP-Queens | 07/13/2022 00:15   | 07/13/2022 07:49   | AS      |
| 591-78-6 | * 2-Hexanone                                      | ND          |      | ug/m <sup>3</sup> | 1.47            | 1.8      | EPA TO-15<br>Certifications:                            | 07/13/2022 00:15   | 07/13/2022 07:49   | AS      |





## Sample Information

**Client Sample ID:** SS05 Effluent

**York Sample ID:** 22G0374-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

22G0374

10012 ITHS SS05 OMM

Soil Vapor

July 11, 2022 10:45 am

07/11/2022

### VOA, TO15 Full

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

| CAS No.    | Parameter                      | Result       | Flag | Units             | Reported to LOQ | Dilution | Reference Method                                        | Date/Time Prepared | Date/Time Analyzed | Analyst |
|------------|--------------------------------|--------------|------|-------------------|-----------------|----------|---------------------------------------------------------|--------------------|--------------------|---------|
| 107-05-1   | 3-Chloropropene                | ND           |      | ug/m <sup>3</sup> | 2.82            | 1.8      | EPA TO-15<br>Certifications: NELAC-NY12058,NJDEP-Queens | 07/13/2022 00:15   | 07/13/2022 07:49   | AS      |
| 108-10-1   | 4-Methyl-2-pentanone           | ND           |      | ug/m <sup>3</sup> | 0.737           | 1.8      | EPA TO-15<br>Certifications: NELAC-NY12058,NJDEP-Queens | 07/13/2022 00:15   | 07/13/2022 07:49   | AS      |
| 67-64-1    | <b>Acetone</b>                 | <b>55.7</b>  |      | ug/m <sup>3</sup> | 0.855           | 1.8      | EPA TO-15<br>Certifications: NELAC-NY12058,NJDEP-Queens | 07/13/2022 00:15   | 07/13/2022 07:49   | AS      |
| 107-13-1   | Acrylonitrile                  | ND           |      | ug/m <sup>3</sup> | 0.391           | 1.8      | EPA TO-15<br>Certifications: NELAC-NY12058,NJDEP-Queens | 07/13/2022 00:15   | 07/13/2022 07:49   | AS      |
| 71-43-2    | <b>Benzene</b>                 | <b>3.11</b>  |      | ug/m <sup>3</sup> | 0.575           | 1.8      | EPA TO-15<br>Certifications: NELAC-NY12058,NJDEP-Queens | 07/13/2022 00:15   | 07/13/2022 07:49   | AS      |
| 100-44-7   | Benzyl chloride                | ND           |      | ug/m <sup>3</sup> | 0.932           | 1.8      | EPA TO-15<br>Certifications: NELAC-NY12058,NJDEP-Queens | 07/13/2022 00:15   | 07/13/2022 07:49   | AS      |
| 75-27-4    | Bromodichloromethane           | ND           |      | ug/m <sup>3</sup> | 1.21            | 1.8      | EPA TO-15<br>Certifications: NELAC-NY12058,NJDEP-Queens | 07/13/2022 00:15   | 07/13/2022 07:49   | AS      |
| 75-25-2    | Bromoform                      | ND           |      | ug/m <sup>3</sup> | 1.86            | 1.8      | EPA TO-15<br>Certifications: NELAC-NY12058,NJDEP-Queens | 07/13/2022 00:15   | 07/13/2022 07:49   | AS      |
| 74-83-9    | Bromomethane                   | ND           |      | ug/m <sup>3</sup> | 0.699           | 1.8      | EPA TO-15<br>Certifications: NELAC-NY12058,NJDEP-Queens | 07/13/2022 00:15   | 07/13/2022 07:49   | AS      |
| 75-15-0    | Carbon disulfide               | ND           |      | ug/m <sup>3</sup> | 0.561           | 1.8      | EPA TO-15<br>Certifications: NELAC-NY12058,NJDEP-Queens | 07/13/2022 00:15   | 07/13/2022 07:49   | AS      |
| 56-23-5    | <b>Carbon tetrachloride</b>    | <b>0.340</b> |      | ug/m <sup>3</sup> | 0.283           | 1.8      | EPA TO-15<br>Certifications: NELAC-NY12058,NJDEP-Queens | 07/13/2022 00:15   | 07/13/2022 07:49   | AS      |
| 108-90-7   | Chlorobenzene                  | ND           |      | ug/m <sup>3</sup> | 0.829           | 1.8      | EPA TO-15<br>Certifications: NELAC-NY12058,NJDEP-Queens | 07/13/2022 00:15   | 07/13/2022 07:49   | AS      |
| 75-00-3    | Chloroethane                   | ND           |      | ug/m <sup>3</sup> | 0.475           | 1.8      | EPA TO-15<br>Certifications: NELAC-NY12058,NJDEP-Queens | 07/13/2022 00:15   | 07/13/2022 07:49   | AS      |
| 67-66-3    | Chloroform                     | ND           |      | ug/m <sup>3</sup> | 0.879           | 1.8      | EPA TO-15<br>Certifications: NELAC-NY12058,NJDEP-Queens | 07/13/2022 00:15   | 07/13/2022 07:49   | AS      |
| 74-87-3    | <b>Chloromethane</b>           | <b>0.669</b> |      | ug/m <sup>3</sup> | 0.372           | 1.8      | EPA TO-15<br>Certifications: NELAC-NY12058,NJDEP-Queens | 07/13/2022 00:15   | 07/13/2022 07:49   | AS      |
| 156-59-2   | cis-1,2-Dichloroethylene       | ND           |      | ug/m <sup>3</sup> | 0.357           | 1.8      | EPA TO-15<br>Certifications: NELAC-NY12058,NJDEP-Queens | 07/13/2022 00:15   | 07/13/2022 07:49   | AS      |
| 10061-01-5 | cis-1,3-Dichloropropylene      | ND           |      | ug/m <sup>3</sup> | 0.817           | 1.8      | EPA TO-15<br>Certifications: NELAC-NY12058,NJDEP-Queens | 07/13/2022 00:15   | 07/13/2022 07:49   | AS      |
| 110-82-7   | <b>Cyclohexane</b>             | <b>2.42</b>  |      | ug/m <sup>3</sup> | 0.620           | 1.8      | EPA TO-15<br>Certifications: NELAC-NY12058,NJDEP-Queens | 07/13/2022 00:15   | 07/13/2022 07:49   | AS      |
| 124-48-1   | Dibromochloromethane           | ND           |      | ug/m <sup>3</sup> | 1.53            | 1.8      | EPA TO-15<br>Certifications: NELAC-NY12058,NJDEP-Queens | 07/13/2022 00:15   | 07/13/2022 07:49   | AS      |
| 75-71-8    | <b>Dichlorodifluoromethane</b> | <b>2.49</b>  |      | ug/m <sup>3</sup> | 0.890           | 1.8      | EPA TO-15<br>Certifications: NELAC-NY12058,NJDEP-Queens | 07/13/2022 00:15   | 07/13/2022 07:49   | AS      |
| 141-78-6   | <b>* Ethyl acetate</b>         | <b>1.43</b>  |      | ug/m <sup>3</sup> | 1.30            | 1.8      | EPA TO-15<br>Certifications: NELAC-NY12058,NJDEP-Queens | 07/13/2022 00:15   | 07/13/2022 07:49   | AS      |
| 100-41-4   | <b>Ethyl Benzene</b>           | <b>1.72</b>  |      | ug/m <sup>3</sup> | 0.782           | 1.8      | EPA TO-15<br>Certifications: NELAC-NY12058,NJDEP-Queens | 07/13/2022 00:15   | 07/13/2022 07:49   | AS      |
| 87-68-3    | Hexachlorobutadiene            | ND           |      | ug/m <sup>3</sup> | 1.92            | 1.8      | EPA TO-15<br>Certifications: NELAC-NY12058,NJDEP-Queens | 07/13/2022 00:15   | 07/13/2022 07:49   | AS      |



## Sample Information

**Client Sample ID:** SS05 Effluent

**York Sample ID:** 22G0374-01

York Project (SDG) No.  
22G0374

Client Project ID  
10012 ITHS SS05 OMM

Matrix  
Soil Vapor

Collection Date/Time  
July 11, 2022 10:45 am

Date Received  
07/11/2022

### VOA, TO15 Full

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

| CAS No.     | Parameter                         | Result | Flag | Units             | Reported to<br>LOQ | Dilution | Reference Method                                        | Date/Time<br>Prepared | Date/Time<br>Analyzed | Analyst |
|-------------|-----------------------------------|--------|------|-------------------|--------------------|----------|---------------------------------------------------------|-----------------------|-----------------------|---------|
| 67-63-0     | Isopropanol                       | 3.72   |      | ug/m <sup>3</sup> | 0.885              | 1.8      | EPA TO-15<br>Certifications: NELAC-NY12058,NJDEP-Queens | 07/13/2022 00:15      | 07/13/2022 07:49      | AS      |
| 80-62-6     | Methyl Methacrylate               | ND     |      | ug/m <sup>3</sup> | 0.737              | 1.8      | EPA TO-15<br>Certifications: NELAC-NY12058,NJDEP-Queens | 07/13/2022 00:15      | 07/13/2022 07:49      | AS      |
| 1634-04-4   | Methyl tert-butyl ether (MTBE)    | ND     |      | ug/m <sup>3</sup> | 0.649              | 1.8      | EPA TO-15<br>Certifications: NELAC-NY12058,NJDEP-Queens | 07/13/2022 00:15      | 07/13/2022 07:49      | AS      |
| 75-09-2     | Methylene chloride                | ND     |      | ug/m <sup>3</sup> | 1.25               | 1.8      | EPA TO-15<br>Certifications: NELAC-NY12058,NJDEP-Queens | 07/13/2022 00:15      | 07/13/2022 07:49      | AS      |
| 142-82-5    | n-Heptane                         | 3.02   |      | ug/m <sup>3</sup> | 0.738              | 1.8      | EPA TO-15<br>Certifications: NELAC-NY12058,NJDEP-Queens | 07/13/2022 00:15      | 07/13/2022 07:49      | AS      |
| 110-54-3    | n-Hexane                          | 5.14   |      | ug/m <sup>3</sup> | 0.634              | 1.8      | EPA TO-15<br>Certifications: NELAC-NY12058,NJDEP-Queens | 07/13/2022 00:15      | 07/13/2022 07:49      | AS      |
| 95-47-6     | o-Xylene                          | 1.64   |      | ug/m <sup>3</sup> | 0.782              | 1.8      | EPA TO-15<br>Certifications: NELAC-NY12058,NJDEP-Queens | 07/13/2022 00:15      | 07/13/2022 07:49      | AS      |
| 179601-23-1 | p- & m- Xylenes                   | 4.06   |      | ug/m <sup>3</sup> | 1.56               | 1.8      | EPA TO-15<br>Certifications: NELAC-NY12058,NJDEP-Queens | 07/13/2022 00:15      | 07/13/2022 07:49      | AS      |
| 622-96-8    | * p-Ethyltoluene                  | 1.50   |      | ug/m <sup>3</sup> | 0.885              | 1.8      | EPA TO-15<br>Certifications: NELAC-NY12058,NJDEP-Queens | 07/13/2022 00:15      | 07/13/2022 07:49      | AS      |
| 115-07-1    | * Propylene                       | 2.54   |      | ug/m <sup>3</sup> | 0.310              | 1.8      | EPA TO-15<br>Certifications: NELAC-NY12058,NJDEP-Queens | 07/13/2022 00:15      | 07/13/2022 07:49      | AS      |
| 100-42-5    | Styrene                           | ND     |      | ug/m <sup>3</sup> | 0.767              | 1.8      | EPA TO-15<br>Certifications: NELAC-NY12058,NJDEP-Queens | 07/13/2022 00:15      | 07/13/2022 07:49      | AS      |
| 127-18-4    | Tetrachloroethylene               | 2.44   |      | ug/m <sup>3</sup> | 1.22               | 1.8      | EPA TO-15<br>Certifications: NELAC-NY12058,NJDEP-Queens | 07/13/2022 00:15      | 07/13/2022 07:49      | AS      |
| 109-99-9    | * Tetrahydrofuran                 | 1.43   |      | ug/m <sup>3</sup> | 1.06               | 1.8      | EPA TO-15<br>Certifications: NELAC-NY12058,NJDEP-Queens | 07/13/2022 00:15      | 07/13/2022 07:49      | AS      |
| 108-88-3    | Toluene                           | 8.55   |      | ug/m <sup>3</sup> | 0.678              | 1.8      | EPA TO-15<br>Certifications: NELAC-NY12058,NJDEP-Queens | 07/13/2022 00:15      | 07/13/2022 07:49      | AS      |
| 156-60-5    | trans-1,2-Dichloroethylene        | ND     |      | ug/m <sup>3</sup> | 0.714              | 1.8      | EPA TO-15<br>Certifications: NELAC-NY12058,NJDEP-Queens | 07/13/2022 00:15      | 07/13/2022 07:49      | AS      |
| 10061-02-6  | trans-1,3-Dichloropropylene       | ND     |      | ug/m <sup>3</sup> | 0.817              | 1.8      | EPA TO-15<br>Certifications: NELAC-NY12058,NJDEP-Queens | 07/13/2022 00:15      | 07/13/2022 07:49      | AS      |
| 79-01-6     | Trichloroethylene                 | 0.677  |      | ug/m <sup>3</sup> | 0.242              | 1.8      | EPA TO-15<br>Certifications: NELAC-NY12058,NJDEP-Queens | 07/13/2022 00:15      | 07/13/2022 07:49      | AS      |
| 75-69-4     | Trichlorofluoromethane (Freon 11) | 1.42   |      | ug/m <sup>3</sup> | 1.01               | 1.8      | EPA TO-15<br>Certifications: NELAC-NY12058,NJDEP-Queens | 07/13/2022 00:15      | 07/13/2022 07:49      | AS      |
| 108-05-4    | Vinyl acetate                     | ND     |      | ug/m <sup>3</sup> | 0.634              | 1.8      | EPA TO-15<br>Certifications: NELAC-NY12058,NJDEP-Queens | 07/13/2022 00:15      | 07/13/2022 07:49      | AS      |
| 593-60-2    | Vinyl bromide                     | ND     |      | ug/m <sup>3</sup> | 0.787              | 1.8      | EPA TO-15<br>Certifications: NELAC-NY12058,NJDEP-Queens | 07/13/2022 00:15      | 07/13/2022 07:49      | AS      |
| 75-01-4     | Vinyl Chloride                    | ND     |      | ug/m <sup>3</sup> | 0.230              | 1.8      | EPA TO-15<br>Certifications: NELAC-NY12058,NJDEP-Queens | 07/13/2022 00:15      | 07/13/2022 07:49      | AS      |



## Analytical Batch Summary

**Batch ID:** BG20672

**Preparation Method:** EPA TO15 PREP

**Prepared By:** AS

| YORK Sample ID | Client Sample ID | Preparation Date |
|----------------|------------------|------------------|
| 22G0374-01     | SS05 Effluent    | 07/13/22         |
| BG20672-BLK1   | Blank            | 07/13/22         |
| BG20672-BS1    | LCS              | 07/13/22         |



## Volatile Organic Compounds in Air by GC/MS - Quality Control Data

### York Analytical Laboratories, Inc.

| Analyte | Result | Reporting<br>Limit | Units | Spike<br>Level | Source*<br>Result | %REC | %REC<br>Limits | Flag | RPD | RPD<br>Limit | Flag |
|---------|--------|--------------------|-------|----------------|-------------------|------|----------------|------|-----|--------------|------|
|---------|--------|--------------------|-------|----------------|-------------------|------|----------------|------|-----|--------------|------|

#### Batch BG20672 - EPA TO15 PREP

##### Blank (BG20672-BLK1)

Prepared & Analyzed: 07/13/2022

|                                                   |    |       |                   |
|---------------------------------------------------|----|-------|-------------------|
| 1,1,1,2-Tetrachloroethane                         | ND | 0.687 | ug/m <sup>3</sup> |
| 1,1,1-Trichloroethane                             | ND | 0.546 | "                 |
| 1,1,2,2-Tetrachloroethane                         | ND | 0.687 | "                 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | ND | 0.766 | "                 |
| 1,1,2-Trichloroethane                             | ND | 0.546 | "                 |
| 1,1-Dichloroethane                                | ND | 0.405 | "                 |
| 1,1-Dichloroethylene                              | ND | 0.198 | "                 |
| 1,2,4-Trichlorobenzene                            | ND | 0.742 | "                 |
| 1,2,4-Trimethylbenzene                            | ND | 0.492 | "                 |
| 1,2-Dibromoethane                                 | ND | 0.768 | "                 |
| 1,2-Dichlorobenzene                               | ND | 0.601 | "                 |
| 1,2-Dichloroethane                                | ND | 0.405 | "                 |
| 1,2-Dichloropropane                               | ND | 0.462 | "                 |
| 1,2-Dichlorotetrafluoroethane                     | ND | 0.699 | "                 |
| 1,3,5-Trimethylbenzene                            | ND | 0.492 | "                 |
| 1,3-Butadiene                                     | ND | 0.664 | "                 |
| 1,3-Dichlorobenzene                               | ND | 0.601 | "                 |
| 1,3-Dichloropropane                               | ND | 0.462 | "                 |
| 1,4-Dichlorobenzene                               | ND | 0.601 | "                 |
| 1,4-Dioxane                                       | ND | 0.721 | "                 |
| 2-Butanone                                        | ND | 0.295 | "                 |
| 2-Hexanone                                        | ND | 0.819 | "                 |
| 3-Chloropropene                                   | ND | 1.57  | "                 |
| 4-Methyl-2-pentanone                              | ND | 0.410 | "                 |
| Acetone                                           | ND | 0.475 | "                 |
| Acrylonitrile                                     | ND | 0.217 | "                 |
| Benzene                                           | ND | 0.319 | "                 |
| Benzyl chloride                                   | ND | 0.518 | "                 |
| Bromodichloromethane                              | ND | 0.670 | "                 |
| Bromoform                                         | ND | 1.03  | "                 |
| Bromomethane                                      | ND | 0.388 | "                 |
| Carbon disulfide                                  | ND | 0.311 | "                 |
| Carbon tetrachloride                              | ND | 0.157 | "                 |
| Chlorobenzene                                     | ND | 0.460 | "                 |
| Chloroethane                                      | ND | 0.264 | "                 |
| Chloroform                                        | ND | 0.488 | "                 |
| Chloromethane                                     | ND | 0.207 | "                 |
| cis-1,2-Dichloroethylene                          | ND | 0.198 | "                 |
| cis-1,3-Dichloropropylene                         | ND | 0.454 | "                 |
| Cyclohexane                                       | ND | 0.344 | "                 |
| Dibromochloromethane                              | ND | 0.852 | "                 |
| Dichlorodifluoromethane                           | ND | 0.495 | "                 |
| Ethyl acetate                                     | ND | 0.721 | "                 |
| Ethyl Benzene                                     | ND | 0.434 | "                 |
| Hexachlorobutadiene                               | ND | 1.07  | "                 |
| Isopropanol                                       | ND | 0.492 | "                 |
| Methyl Methacrylate                               | ND | 0.409 | "                 |
| Methyl tert-butyl ether (MTBE)                    | ND | 0.361 | "                 |
| Methylene chloride                                | ND | 0.695 | "                 |





## Volatile Organic Compounds in Air by GC/MS - Quality Control Data

### York Analytical Laboratories, Inc.

| Analyte | Result | Reporting Limit | Units | Spike Level | Source* Result | %REC | %REC Limits | Flag | RPD | RPD Limit | Flag |
|---------|--------|-----------------|-------|-------------|----------------|------|-------------|------|-----|-----------|------|
|---------|--------|-----------------|-------|-------------|----------------|------|-------------|------|-----|-----------|------|

#### Batch BG20672 - EPA TO15 PREP

##### Blank (BG20672-BLK1)

Prepared & Analyzed: 07/13/2022

|                                   |    |       |                   |
|-----------------------------------|----|-------|-------------------|
| n-Heptane                         | ND | 0.410 | ug/m <sup>3</sup> |
| n-Hexane                          | ND | 0.352 | "                 |
| o-Xylene                          | ND | 0.434 | "                 |
| p- & m- Xylenes                   | ND | 0.868 | "                 |
| p-Ethyltoluene                    | ND | 0.492 | "                 |
| Propylene                         | ND | 0.172 | "                 |
| Styrene                           | ND | 0.426 | "                 |
| Tetrachloroethylene               | ND | 0.678 | "                 |
| Tetrahydrofuran                   | ND | 0.590 | "                 |
| Toluene                           | ND | 0.377 | "                 |
| trans-1,2-Dichloroethylene        | ND | 0.396 | "                 |
| trans-1,3-Dichloropropylene       | ND | 0.454 | "                 |
| Trichloroethylene                 | ND | 0.134 | "                 |
| Trichlorofluoromethane (Freon 11) | ND | 0.562 | "                 |
| Vinyl acetate                     | ND | 0.352 | "                 |
| Vinyl bromide                     | ND | 0.437 | "                 |
| Vinyl Chloride                    | ND | 0.128 | "                 |

##### LCS (BG20672-BS1)

Prepared & Analyzed: 07/13/2022

|                                                   |      |  |      |      |      |        |
|---------------------------------------------------|------|--|------|------|------|--------|
| 1,1,1,2-Tetrachloroethane                         | 10.6 |  | ppbv | 10.0 | 106  | 70-130 |
| 1,1,1-Trichloroethane                             | 10.7 |  | "    | 10.0 | 107  | 70-130 |
| 1,1,2,2-Tetrachloroethane                         | 10.4 |  | "    | 10.0 | 104  | 70-130 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | 10.6 |  | "    | 10.0 | 106  | 70-130 |
| 1,1,2-Trichloroethane                             | 10.4 |  | "    | 10.0 | 104  | 70-130 |
| 1,1-Dichloroethane                                | 10.2 |  | "    | 10.0 | 102  | 70-130 |
| 1,1-Dichloroethylene                              | 9.38 |  | "    | 10.0 | 93.8 | 70-130 |
| 1,2,4-Trichlorobenzene                            | 11.4 |  | "    | 10.0 | 114  | 70-130 |
| 1,2,4-Trimethylbenzene                            | 8.47 |  | "    | 10.0 | 84.7 | 70-130 |
| 1,2-Dibromoethane                                 | 10.5 |  | "    | 10.0 | 105  | 70-130 |
| 1,2-Dichlorobenzene                               | 9.49 |  | "    | 10.0 | 94.9 | 70-130 |
| 1,2-Dichloroethane                                | 9.83 |  | "    | 10.0 | 98.3 | 70-130 |
| 1,2-Dichloropropane                               | 10.1 |  | "    | 10.0 | 101  | 70-130 |
| 1,2-Dichlorotetrafluoroethane                     | 11.4 |  | "    | 10.0 | 114  | 70-130 |
| 1,3,5-Trimethylbenzene                            | 9.44 |  | "    | 10.0 | 94.4 | 70-130 |
| 1,3-Butadiene                                     | 9.93 |  | "    | 10.0 | 99.3 | 70-130 |
| 1,3-Dichlorobenzene                               | 9.40 |  | "    | 10.0 | 94.0 | 70-130 |
| 1,3-Dichloropropane                               | 10.2 |  | "    | 10.0 | 102  | 70-130 |
| 1,4-Dichlorobenzene                               | 9.51 |  | "    | 10.0 | 95.1 | 70-130 |
| 1,4-Dioxane                                       | 9.30 |  | "    | 10.0 | 93.0 | 70-130 |
| 2-Butanone                                        | 9.23 |  | "    | 10.0 | 92.3 | 70-130 |
| 2-Hexanone                                        | 8.32 |  | "    | 10.0 | 83.2 | 70-130 |
| 3-Chloropropene                                   | 11.0 |  | "    | 10.0 | 110  | 70-130 |
| 4-Methyl-2-pentanone                              | 9.73 |  | "    | 10.0 | 97.3 | 70-130 |
| Acetone                                           | 10.4 |  | "    | 10.0 | 104  | 70-130 |
| Acrylonitrile                                     | 10.2 |  | "    | 10.0 | 102  | 70-130 |
| Benzene                                           | 10.4 |  | "    | 10.0 | 104  | 70-130 |
| Benzyl chloride                                   | 11.0 |  | "    | 10.0 | 110  | 70-130 |
| Bromodichloromethane                              | 10.2 |  | "    | 10.0 | 102  | 70-130 |
| Bromoform                                         | 9.60 |  | "    | 10.0 | 96.0 | 70-130 |
| Bromomethane                                      | 9.69 |  | "    | 10.0 | 96.9 | 70-130 |
| Carbon disulfide                                  | 10.5 |  | "    | 10.0 | 105  | 70-130 |



## Volatile Organic Compounds in Air by GC/MS - Quality Control Data

### York Analytical Laboratories, Inc.

| Analyte | Result | Reporting<br>Limit | Units | Spike<br>Level | Source*<br>Result | %REC | %REC<br>Limits | Flag | RPD | RPD<br>Limit | Flag |
|---------|--------|--------------------|-------|----------------|-------------------|------|----------------|------|-----|--------------|------|
|---------|--------|--------------------|-------|----------------|-------------------|------|----------------|------|-----|--------------|------|

#### Batch BG20672 - EPA TO15 PREP

#### LCS (BG20672-BS1)

Prepared & Analyzed: 07/13/2022

|                                   |      |  |      |      |  |      |        |  |  |  |  |
|-----------------------------------|------|--|------|------|--|------|--------|--|--|--|--|
| Carbon tetrachloride              | 9.66 |  | ppbv | 10.0 |  | 96.6 | 70-130 |  |  |  |  |
| Chlorobenzene                     | 9.08 |  | "    | 10.0 |  | 90.8 | 70-130 |  |  |  |  |
| Chloroethane                      | 10.6 |  | "    | 10.0 |  | 106  | 70-130 |  |  |  |  |
| Chloroform                        | 10.6 |  | "    | 10.0 |  | 106  | 70-130 |  |  |  |  |
| Chloromethane                     | 10.8 |  | "    | 10.0 |  | 108  | 70-130 |  |  |  |  |
| cis-1,2-Dichloroethylene          | 9.40 |  | "    | 10.0 |  | 94.0 | 70-130 |  |  |  |  |
| cis-1,3-Dichloropropylene         | 11.1 |  | "    | 10.0 |  | 111  | 70-130 |  |  |  |  |
| Cyclohexane                       | 11.4 |  | "    | 10.0 |  | 114  | 70-130 |  |  |  |  |
| Dibromochloromethane              | 9.93 |  | "    | 10.0 |  | 99.3 | 70-130 |  |  |  |  |
| Dichlorodifluoromethane           | 10.2 |  | "    | 10.0 |  | 102  | 70-130 |  |  |  |  |
| Ethyl acetate                     | 10.3 |  | "    | 10.0 |  | 103  | 70-130 |  |  |  |  |
| Ethyl Benzene                     | 9.18 |  | "    | 10.0 |  | 91.8 | 70-130 |  |  |  |  |
| Hexachlorobutadiene               | 11.4 |  | "    | 10.0 |  | 114  | 70-130 |  |  |  |  |
| Isopropanol                       | 10.0 |  | "    | 10.0 |  | 100  | 70-130 |  |  |  |  |
| Methyl Methacrylate               | 10.9 |  | "    | 10.0 |  | 109  | 70-130 |  |  |  |  |
| Methyl tert-butyl ether (MTBE)    | 11.0 |  | "    | 10.0 |  | 110  | 70-130 |  |  |  |  |
| Methylene chloride                | 9.39 |  | "    | 10.0 |  | 93.9 | 70-130 |  |  |  |  |
| n-Heptane                         | 11.0 |  | "    | 10.0 |  | 110  | 70-130 |  |  |  |  |
| n-Hexane                          | 11.2 |  | "    | 10.0 |  | 112  | 70-130 |  |  |  |  |
| o-Xylene                          | 9.70 |  | "    | 10.0 |  | 97.0 | 70-130 |  |  |  |  |
| p- & m- Xylenes                   | 18.4 |  | "    | 20.0 |  | 92.2 | 70-130 |  |  |  |  |
| p-Ethyltoluene                    | 9.67 |  | "    | 10.0 |  | 96.7 | 70-130 |  |  |  |  |
| Propylene                         | 10.5 |  | "    | 10.0 |  | 105  | 70-130 |  |  |  |  |
| Styrene                           | 11.0 |  | "    | 10.0 |  | 110  | 70-130 |  |  |  |  |
| Tetrachloroethylene               | 10.2 |  | "    | 10.0 |  | 102  | 70-130 |  |  |  |  |
| Tetrahydrofuran                   | 10.1 |  | "    | 10.0 |  | 101  | 70-130 |  |  |  |  |
| Toluene                           | 9.35 |  | "    | 10.0 |  | 93.5 | 70-130 |  |  |  |  |
| trans-1,2-Dichloroethylene        | 10.7 |  | "    | 10.0 |  | 107  | 70-130 |  |  |  |  |
| trans-1,3-Dichloropropylene       | 10.9 |  | "    | 10.0 |  | 109  | 70-130 |  |  |  |  |
| Trichloroethylene                 | 8.96 |  | "    | 10.0 |  | 89.6 | 70-130 |  |  |  |  |
| Trichlorofluoromethane (Freon 11) | 10.3 |  | "    | 10.0 |  | 103  | 70-130 |  |  |  |  |
| Vinyl acetate                     | 11.1 |  | "    | 10.0 |  | 111  | 70-130 |  |  |  |  |
| Vinyl bromide                     | 11.3 |  | "    | 10.0 |  | 113  | 70-130 |  |  |  |  |
| Vinyl Chloride                    | 10.6 |  | "    | 10.0 |  | 106  | 70-130 |  |  |  |  |



## Sample and Data Qualifiers Relating to This Work Order

### Definitions and Other Explanations

|             |                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| *           | Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.                                                                                                                                                                                                                                                                                                                               |
| ND          | NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)                                                                                                                                                                                                                                                                                                                                                      |
| RL          | REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.                                                                                                                                                                                                                                                                                                                                 |
| LOQ         | LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.                                                                     |
| LOD         | LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.                                                                                                                                                                       |
| MDL         | METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.                                                                                                                |
| Reported to | This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.                                                                                                 |
| NR          | Not reported                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| RPD         | Relative Percent Difference                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Wet         | The data has been reported on an as-received (wet weight) basis                                                                                                                                                                                                                                                                                                                                                                              |
| Low Bias    | Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.           |
| High Bias   | High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.         |
| Non-Dir.    | Non-dir. flag (Non-Directional Bias ) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons. |

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.



# Appendix H

## Waste Manifests



| NON-HAZARDOUS WASTE MANIFEST                                                                                                                                                                                                                                                                                                                                             |  | 1. Generator ID Number | 2. Page 1 of                                                                | 3. Emergency Response Phone | 4. Waste Tracking Number |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------|-----------------------------------------------------------------------------|-----------------------------|--------------------------|--|
|                                                                                                                                                                                                                                                                                                                                                                          |  | Not required           | 1                                                                           | 631-608-8810                | 2602-12323               |  |
| 5. Generator's Name and Mailing Address                                                                                                                                                                                                                                                                                                                                  |  |                        | Generator's Site Address (if different than mailing address)                |                             |                          |  |
| COI 21st LLC, LLC<br>525 Northern Boulevard, Suite 300<br>Great Neck NY 11021<br>Generator's Phone:                                                                                                                                                                                                                                                                      |  |                        | Information Technology H.S.<br>21-16 44th Road<br>Long Island City NY 11101 |                             |                          |  |
| 6. Transporter 1 Company Name                                                                                                                                                                                                                                                                                                                                            |  |                        | U.S. EPA ID Number                                                          |                             |                          |  |
| Brookside Environmental, Inc.                                                                                                                                                                                                                                                                                                                                            |  |                        | NYR000081661                                                                |                             |                          |  |
| 7. Transporter 2 Company Name                                                                                                                                                                                                                                                                                                                                            |  |                        | U.S. EPA ID Number                                                          |                             |                          |  |
| 8. Designated Facility Name and Site Address                                                                                                                                                                                                                                                                                                                             |  |                        | U.S. EPA ID Number                                                          |                             |                          |  |
| Dale Transfer Corp.<br>129 Dale Street<br>West Babylon NY 11704<br>Facility's Phone: 631 393-2882                                                                                                                                                                                                                                                                        |  |                        |                                                                             |                             |                          |  |
| 9. Waste Shipping Name and Description                                                                                                                                                                                                                                                                                                                                   |  | 10. Containers         |                                                                             | 11. Total Quantity          | 12. Unit Wt./Vol.        |  |
|                                                                                                                                                                                                                                                                                                                                                                          |  | No.                    | Type                                                                        |                             |                          |  |
| 1. Non-RCRA, non-DOT regulated waste, liquid                                                                                                                                                                                                                                                                                                                             |  | 02                     | DM                                                                          | 100                         | G                        |  |
| 2.                                                                                                                                                                                                                                                                                                                                                                       |  |                        |                                                                             |                             |                          |  |
| 3.                                                                                                                                                                                                                                                                                                                                                                       |  |                        |                                                                             |                             |                          |  |
| 4.                                                                                                                                                                                                                                                                                                                                                                       |  |                        |                                                                             |                             |                          |  |
| 13. Special Handling Instructions and Additional Information                                                                                                                                                                                                                                                                                                             |  |                        |                                                                             |                             |                          |  |
| 1) Groundwater with low level solvents. Approval # 2023-051                                                                                                                                                                                                                                                                                                              |  |                        |                                                                             |                             |                          |  |
| 14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. |  |                        |                                                                             |                             |                          |  |
| Generator's/Offoror's Printed/Typed Name                                                                                                                                                                                                                                                                                                                                 |  |                        | Signature                                                                   |                             | Month Day Year           |  |
| Ben Hess on behalf of COI 21st LLC                                                                                                                                                                                                                                                                                                                                       |  |                        |                                                                             |                             | 01/23/23                 |  |
| 15. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: Date leaving U.S.:                                                                                                                                                                                                                     |  |                        |                                                                             |                             |                          |  |
| 16. Transporter Acknowledgment of Receipt of Materials                                                                                                                                                                                                                                                                                                                   |  |                        |                                                                             |                             |                          |  |
| Transporter 1 Printed/Typed Name                                                                                                                                                                                                                                                                                                                                         |  |                        | Signature                                                                   |                             | Month Day Year           |  |
| Oscar Fargas                                                                                                                                                                                                                                                                                                                                                             |  |                        |                                                                             |                             | 01/23/23                 |  |
| Transporter 2 Printed/Typed Name                                                                                                                                                                                                                                                                                                                                         |  |                        | Signature                                                                   |                             | Month Day Year           |  |
|                                                                                                                                                                                                                                                                                                                                                                          |  |                        |                                                                             |                             |                          |  |
| 17. Discrepancy                                                                                                                                                                                                                                                                                                                                                          |  |                        |                                                                             |                             |                          |  |
| 17a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection                                                                                                                                                    |  |                        |                                                                             |                             |                          |  |
| Manifest Reference Number:                                                                                                                                                                                                                                                                                                                                               |  |                        |                                                                             |                             |                          |  |
| 17b. Alternate Facility (or Generator) U.S. EPA ID Number                                                                                                                                                                                                                                                                                                                |  |                        |                                                                             |                             |                          |  |
| Facility's Phone:                                                                                                                                                                                                                                                                                                                                                        |  |                        |                                                                             |                             |                          |  |
| 17c. Signature of Alternate Facility (or Generator) Month Day Year                                                                                                                                                                                                                                                                                                       |  |                        |                                                                             |                             |                          |  |
|                                                                                                                                                                                                                                                                                                                                                                          |  |                        |                                                                             |                             |                          |  |
| 18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a                                                                                                                                                                                                                                     |  |                        |                                                                             |                             |                          |  |
| Printed/Typed Name                                                                                                                                                                                                                                                                                                                                                       |  |                        | Signature                                                                   |                             | Month Day Year           |  |
| Armando Sanchez                                                                                                                                                                                                                                                                                                                                                          |  |                        |                                                                             |                             | 01/24/23                 |  |